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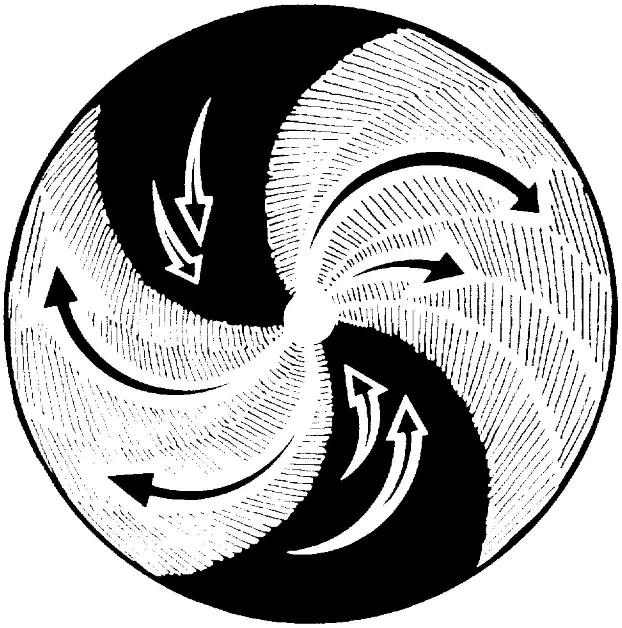
# Interplanetary Medium Data Book – Supplement 3A, 1977–1985



April 1986

NASA
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Goddard Space Flight Center

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# *Interplanetary Medium Data Book - Supplement 3A*

## 1977 - 1985

By

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April 1986

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Greenbelt, Maryland 20771

# INTRODUCTION

*Supplement 3* of the *Interplanetary Medium Data Book* contains a detailed discussion of a data set compilation of hourly averaged interplanetary plasma and magnetic field parameters. The discussion addresses data sources, systematic and random differences, time shifting of ISEE 3 data, and plasma normalizations. *Supplement 3* also contains solar rotation plots of field and plasma parameters.

*Supplement 3A* contains computer-generated listings of selected parameters from the composite data set. These parameters are bulk speed (km/sec), density ($cm^{-3}$), temperature (in units of 1000 °K) and the IMF parameters: average magnitude, latitude and longitude angles of the vector made up of the average GSE components, GSM Cartesian components, and the vector standard deviation (see original *Data Book* for discussion). The units of field magnitude, components, and standard deviation are gammas, while the units of field direction angles are degrees.

Identifiers of both plasma and IMF data sources are also listed (H = MIT IMP 7, J = MIT or GSFC IMP 8, L = LANL IMP 7/8, A = ISEE 1, C = ISEE 3).

Note that the data are listed in 1-day blocks and that days with no field or plasma data are omitted from the listings. For hours during which values are available for only an incomplete set of plasma parameters, values for the missing parameters are listed as zero.

# Data Listings

10/22/77 – 10/29/77

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 445 | 1.6 | 137 | J | 6.6 | -7 | 1[illegible]1 | -1.2 | 5.8 | -1.9 | 2 | J |
| 2 | 435 | 1.6 | 133 | J | 6.7 | -36 | 108 | -1.6 | 4.0 | -4.8 | 1 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 443 | 1.8 | 55 | J | 7.0 | -38 | 145 | -4.5 | 1.1 | -5.2 | 1 | J |
| 7 | 457 | 3.4 | 54 | J | 6.5 | -50 | 110 | -1.3 | 1.1 | -5.7 | 2 | J |
| 8 | 350 | [illegible].0 | 0 | H | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 384 | 0.0 | 0 | H | | | | | | | | |
| 11 | 411 | 0.0 | 0 | H | | | | | | | | |
| 12 | 328 | [illegible].0 | 0 | H | | | | | | | | |
| 13 | 352 | 0.0 | 0 | H | | | | | | | | |
| 14 | 397 | 0.0 | 0 | H | | | | | | | | |
| 15 | 425 | 0.0 | 0 | H | | | | | | | | |
| 16 | 398 | 0.0 | 0 | H | | | | | | | | |
| 17 | 438 | 0.0 | 0 | H | | | | | | | | |
| 18 | 421 | 0.0 | 0 | H | | | | | | | | |
| 19 | 411 | 3.9 | 84 | L | | | | | | | | |
| 20 | 412 | 4.0 | 84 | L | | | | | | | | |
| 21 | 413 | 3.7 | 84 | L | | | | | | | | |
| 22 | 418 | 4.0 | 91 | L | | | | | | | | |
| 23 | 409 | 4.0 | 55 | J | 5.9 | 13 | 125 | -3.0 | 4.4 | 0.5 | 2 | J |
| 24 | 395 | 4.2 | 59 | J | 5.8 | -12 | 145 | -4.2 | 2.7 | -1.5 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 339 | 6.5 | 22 | J | 5.2 | -1 | 128 | -3.1 | 3.9 | -0.8 | 1 | J |
| 2 | 341 | 6.4 | 31 | J | 4.5 | -20 | 131 | -2.8 | 2.8 | -2.2 | 1 | J |
| 3 | 329 | 6.3 | 26 | J | 4.2 | 0 | 155 | -3.6 | 1.6 | -0.4 | 1 | J |
| 4 | 325 | 6.2 | 27 | J | 4.3 | 15 | 164 | -3.9 | 1.4 | 0.7 | 1 | J |
| 5 | 331 | 6.0 | 29 | J | 4.3 | -17 | 159 | -3.7 | 0.9 | -1.6 | 1 | J |
| 6 | 339 | 7.6 | 30 | J | 4.3 | 3 | 113 | -1.0 | 2.2 | -0.8 | 4 | J |
| 7 | 336 | 6.8 | 19 | J | 4.7 | 5 | 117 | -2.1 | 3.8 | -1.5 | 1 | J |
| 8 | 330 | 6.2 | 15 | J | 4.9 | 3 | 121 | -2.5 | 3.7 | -1.8 | 1 | J |
| 9 | 329 | 6.2 | 30 | J | 4.6 | 12 | 142 | -3.4 | 2.7 | -0.6 | 1 | J |
| 10 | 348 | 5.1 | 41 | J | 4.0 | 10 | 141 | -2.7 | 2.2 | -0.6 | 2 | J |
| 11 | 354 | 6.1 | 43 | J | 3.2 | -28 | 101 | -0.5 | 1.5 | -2.7 | 1 | J |
| 12 | 357 | 5.8 | 38 | J | 2.6 | -17 | 79 | 0.4 | 1.4 | -1.6 | 2 | J |
| 13 | 361 | 6.6 | 39 | J | 2.1 | -14 | 57 | 1.0 | 1.0 | -1.1 | 1 | J |
| 14 | 341 | 5.8 | 22 | J | | | | | | | | |
| 15 | 335 | 5.6 | 21 | J | 4.0 | -8 | 1[illegible]8 | -1.2 | 3.1 | -2.1 | 1 | J |
| 16 | 339 | 6.5 | 20 | J | 3.8 | 2 | 100 | -0.6 | 3.4 | -1.3 | 1 | J |
| 17 | 343 | 7.9 | 22 | J | 3.7 | -20 | 69 | 1.2 | 2.5 | -2.2 | 1 | J |
| 18 | 338 | 7.4 | 22 | J | | | | | | | | |
| 19 | 337 | 5.8 | 28 | J | 2.9 | -15 | 87 | 0.1 | 1.6 | -0.9 | 2 | J |
| 20 | 341 | 5.2 | 31 | L | 3.7 | 32 | 135 | -2.0 | 2.4 | 1.3 | 2 | J |
| 21 | 340 | 5.2 | 35 | L | 4.0 | 18 | 134 | -2.6 | 2.9 | 0.7 | 1 | J |
| 22 | 341 | 5.9 | 34 | J | 4.0 | 4 | 110 | -1.3 | 3.7 | -0.3 | 1 | J |
| 23 | 351 | 7.4 | 21 | J | 3.7 | -18 | 79 | 0.6 | 2.9 | -1.5 | 2 | J |
| 24 | 341 | 11.7 | 22 | J | 2.6 | -14 | 64 | 0.8 | 1.6 | -0.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 333 | 10.3 | 25 | L | | | | | | | | |
| 3 | 331 | 11.9 | 40 | L | | | | | | | | |
| 4 | 332 | 11.5 | 38 | L | | | | | | | | |
| 5 | 329 | 10.8 | 34 | L | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 329 | 0.0 | 0 | H | | | | | | | | |
| 11 | 326 | 16.5 | 21 | L | | | | | | | | |
| 12 | 327 | 0.0 | 0 | H | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 317 | 19.6 | 14 | L | | | | | | | | |
| 17 | 312 | 11.4 | 13 | L | | | | | | | | |
| 18 | 313 | 11.3 | 13 | L | | | | | | | | |
| 19 | 315 | 14.5 | 16 | L | | | | | | | | |
| 20 | 321 | 0.0 | 0 | H | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 347 | 28.6 | 27 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 340 | 9.2 | 13 | L | | | | | | | | |
| 2 | 353 | 11.2 | 13 | L | | | | | | | | |
| 3 | 365 | 12.9 | 11 | L | | | | | | | | |
| 4 | 374 | 15.9 | 19 | L | | | | | | | | |
| 5 | 364 | 17.6 | 30 | L | | | | | | | | |
| 6 | 364 | 19.5 | 33 | L | | | | | | | | |
| 7 | 368 | 41.8 | 31 | L | | | | | | | | |
| 8 | 362 | 23.7 | 69 | L | | | | | | | | |
| 9 | 384 | 33.0 | 77 | L | | | | | | | | |
| 10 | 410 | 32.5 | 83 | L | | | | | | | | |
| 11 | 420 | 13.8 | 187 | L | | | | | | | | |
| 12 | 430 | 11.5 | 182 | L | | | | | | | | |
| 13 | 439 | 9.0 | 199 | L | | | | | | | | |
| 14 | 444 | 10.8 | 186 | L | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 463 | 7.4 | 187 | L | | | | | | | | |
| 17 | 475 | 4.7 | 151 | L | | | | | | | | |
| 18 | 462 | 9.0 | 122 | L | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 465 | 8.7 | 81 | L | | | | | | | | |
| 21 | 456 | 8.7 | 81 | L | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 429 | 12.2 | 114 | L | | | | | | | | |
| 24 | 437 | 10.7 | 112 | L | | | | | | | | |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 405 | 4.5 | 66 | J | 6.1 | 6 | 137 | -3.9 | 3.6 | -0.1 | 3 | J |
| 380 | 4.3 | 38 | J | 6.2 | -14 | 163 | -5.4 | 1.3 | -1.7 | 2 | J |
| 373 | 4.1 | 35 | J | 6.0 | -1 | 170 | -5.6 | 0.9 | -0.4 | 2 | J |
| 383 | 4.6 | 57 | J | 6.3 | -30 | 170 | -4.9 | -0.1 | -3.0 | 2 | J |
| 394 | 4.6 | 63 | J | 6.6 | 15 | 147 | -4.8 | 3.4 | 0.3 | 3 | J |
| 390 | 4.7 | 56 | J | 6.7 | 19 | 142 | -4.8 | 4.3 | 0.4 | 2 | J |
| 382 | 4.8 | 57 | J | 6.8 | 20 | 145 | -4.9 | 4.1 | 0.4 | 2 | J |
| 369 | 4.5 | 29 | J | 6.8 | -22 | 187 | -6.2 | -1.9 | -1.8 | 1 | J |
| 389 | 5.1 | 40 | J | 7.5 | 20 | 162 | -5.4 | 2.6 | 0.9 | 4 | J |
| 387 | 5.0 | 70 | L | | | | | | | | |
| 365 | 4.5 | 53 | L | | | | | | | | |
| 358 | 4.3 | 47 | L | | | | | | | | |
| 353 | 4.2 | 44 | L | | | | | | | | |
| 351 | 3.9 | 43 | L | | | | | | | | |
| 343 | 4.0 | 39 | J | 6.2 | 15 | 170 | -5.8 | 1.6 | 1.0 | 1 | J |
| 344 | 4.0 | 37 | J | 6.1 | 16 | 167 | -5.7 | 1.9 | 1.0 | 0 | J |
| 352 | 4.4 | 48 | L | | | | | | | | |
| 341 | 4.1 | 43 | L | | | | | | | | |
| 343 | 4.0 | 47 | L | | | | | | | | |
| 354 | 4.8 | 24 | J | 6.2 | -3 | 118 | -2.9 | 5.3 | -1.5 | 1 | J |
| 354 | 4.7 | 31 | J | 6.0 | 5 | 122 | -3.1 | 5.0 | -0.4 | 1 | J |
| 339 | 5.0 | 32 | J | 5.7 | 18 | 154 | -4.7 | 2.5 | 1.3 | 1 | J |
| 342 | 6.0 | 30 | J | 5.7 | 2 | 136 | -4.0 | 3.8 | -0.4 | 1 | J |
| 341 | 6.3 | 34 | J | 5.5 | 9 | 122 | -2.8 | 4.6 | 0.1 | 1 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 344 | 13.7 | 20 | J | 2.3 | -74 | 354 | 0.6 | -0.4 | -2.0 | 1 | J |
| 347 | 16.5 | 19 | J | 2.6 | 8 | 298 | 1.1 | -2.0 | 0.8 | 1 | J |
| 349 | 18.2 | 16 | J | 1.9 | 19 | 268 | -0.0 | -1.3 | 0.8 | 1 | J |
| 350 | 18.3 | 16 | J | 2.2 | -20 | 270 | 0.0 | -2.2 | -0.1 | 0 | J |
| 349 | 16.9 | 16 | J | 3.7 | -8 | 266 | -0.2 | -3.5 | 0.8 | 1 | J |
| 346 | 17.6 | 18 | J | 4.0 | -7 | 274 | 0.3 | -3.6 | 1.1 | 1 | J |
| 338 | 17.1 | 14 | J | 4.7 | -12 | 283 | 1.0 | -4.4 | 1.1 | 1 | J |
| 336 | 17.6 | 12 | J | 4.2 | -7 | 272 | 0.1 | -3.6 | 1.5 | 2 | J |
| 331 | 16.6 | 13 | J | 4.1 | 11 | 277 | 0.5 | -3.0 | 2.7 | 0 | J |
| 325 | 15.8 | 16 | J | 3.7 | 27 | 273 | 0.2 | -1.8 | 3.0 | 1 | J |
| 320 | 13.5 | 15 | J | 4.2 | 26 | 288 | 1.1 | -2.0 | 3.4 | 1 | J |
| 317 | 13.8 | 15 | J | 4.3 | 24 | 280 | 0.7 | -2.3 | 3.3 | 1 | J |
| 306 | 13.1 | 13 | J | 4.4 | 20 | 294 | 1.6 | -2.4 | 3.0 | 1 | J |
| 310 | 12.2 | 17 | J | 4.9 | 52 | 321 | 2.2 | 0.1 | 3.9 | 2 | J |
| 312 | 15.0 | 18 | J | 4.9 | 32 | 281 | 0.7 | -2.3 | 3.7 | 2 | J |
| 312 | 15.1 | 17 | J | 4.6 | 0 | 269 | -0.1 | -4.1 | 1.7 | 1 | J |
| 319 | 16.3 | 21 | J | 4.5 | -39 | 251 | -1.1 | -3.9 | -1.5 | 2 | J |
| 316 | 19.3 | 18 | J | 4.7 | -36 | 250 | -0.9 | -2.9 | -1.1 | 3 | J |
| 314 | 18.8 | 26 | J | 6.0 | -33 | 224 | -2.9 | -3.4 | -1.9 | 4 | J |
| 322 | 14.1 | 17 | J | 6.9 | -36 | 200 | -5.1 | -2.6 | -3.5 | 2 | J |
| 314 | 12.8 | 19 | L | | | | | | | | |
| 33[illegible] | 0.0 | 0 | H | | | | | | | | |
| 32[illegible] | 11.1 | 21 | L | | | | | | | | |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 36[illegible] | 37.0 | 38 | L | | | | | | | | |
| 353 | 43.5 | 72 | L | | | | | | | | |
| 37[illegible] | 22.5 | 57 | L | | | | | | | | |
| 353 | 19.7 | 58 | L | | | | | | | | |
| 352 | 19.8 | 42 | L | | | | | | | | |
| 352 | 26.0 | 61 | L | | | | | | | | |
| 349 | 25.2 | 62 | L | | | | | | | | |
| 357 | 36.7 | 80 | L | | | | | | | | |
| 376 | 63.9 | 87 | L | | | | | | | | |
| 360 | 40.6 | 34 | L | | | | | | | | |
| 350 | 0.0 | 0 | H | | | | | | | | |
| 372 | 0.0 | 0 | H | | | | | | | | |
| 384 | 0.0 | 0 | H | | | | | | | | |
| 348 | 16.1 | 11 | L | | | | | | | | |
| 349 | 18.4 | 8 | L | | | | | | | | |
| 345 | 11.1 | 7 | L | | | | | | | | |
| 3[illegible]2 | 9.5 | 10 | L | | | | | | | | |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4[illegible]7 | 6.8 | 101 | L | | | | | | | | |
| 474 | 8.9 | 87 | L | | | | | | | | |
| 431 | 9.8 | 116 | L | | | | | | | | |
| 479 | 7.3 | 117 | L | | | | | | | | |
| 474 | 7.2 | 120 | L | 6.9 | 2 | 8 | 6.7 | 1.0 | -0.1 | 1 | J |
| 457 | 7.4 | 96 | J | 6.8 | -3 | 346 | 6.3 | -1.6 | 0.3 | 1 | J |
| 454 | 7.7 | 105 | J | 6.9 | -4 | 324 | 5.0 | -3.5 | 1.2 | 2 | J |
| 459 | 8.1 | 104 | J | 6.9 | 5 | 321 | 4.5 | -3.0 | 2.2 | 3 | J |
| 451 | 8.2 | 99 | J | 6.1 | -10 | 321 | 4.2 | -3.4 | 0.9 | 2 | J |
| 422 | 7.9 | 133 | J | 5.2 | -10 | 311 | 3.0 | -3.4 | 1.1 | 2 | J |
| 407 | 9.1 | 97 | J | 3.9 | -9 | 284 | 0.6 | -2.4 | 1.0 | 3 | J |
| 414 | 12.7 | 102 | J | 5.2 | -75 | 263 | -0.1 | -2.6 | -2.5 | 4 | J |
| 417 | 15.6 | 87 | J | 8.6 | -57 | 283 | 0.8 | -5.9 | -3.2 | 5 | J |
| 416 | 16.0 | 83 | J | 8.4 | -47 | 35 | 2.3 | 0.1 | -3.5 | 7 | J |
| 441 | 11.5 | 120 | J | 7.9 | 38 | 358 | 5.3 | 1.6 | 3.8 | 4 | J |
| 467 | 9.9 | 126 | J | 6.5 | -7 | 305 | 2.6 | -3.6 | 0.9 | 5 | J |
| 465 | 8.7 | 114 | J | 5.7 | 2 | 316 | 3.4 | -3.0 | 1.2 | 3 | J |
| 482 | 7.7 | 104 | J | 6.8 | 15 | 344 | 5.9 | -1.2 | 2.1 | 2 | J |
| 494 | 6.7 | 73 | J | 8.0 | 14 | 350 | 7.6 | -0.9 | 2.2 | 1 | J |
| 490 | 6.3 | 59 | J | 8.5 | 14 | 349 | 8.1 | -1.2 | 2.3 | 1 | J |
| 489 | 6.0 | 72 | J | 7.9 | 13 | 331 | 6.4 | -3.2 | 2.2 | 2 | J |
| 466 | 8.7 | 120 | J | 6.1 | 9 | 321 | 4.1 | -3.2 | 1.3 | 3 | J |
| 502 | 9.2 | 95 | J | 5.9 | 1 | 250 | -1.7 | -4.7 | 0.7 | 3 | J |
| 457 | 7.8 | 63 | J | 6.3 | 10 | 345 | 5.8 | -1.4 | 1.3 | 1 | J |

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OF POOR QUALITY

OCT. 30, 1977 303

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 464 | 9.6 | 103 | J | 6.7 | 25 | 318 | 4.2 | -3.3 | 3.2 | 2 | J |
| 2 | 467 | 10.3 | 95 | J | | | | | | | | |
| 3 | 492 | 12.2 | 63 | J | 7.1 | 11 | 280 | 1.1 | -5.6 | 2.5 | 4 | J |
| 4 | 471 | 8.3 | 114 | J | 9.4 | 12 | 320 | 6.9 | -5.0 | 3.5 | 2 | J |
| 5 | 422 | 9.2 | 128 | A | 8.6 | 11 | 318 | 6.1 | -4.6 | 3.3 | 2 | J |
| 6 | 435 | 9.2 | 82 | J | 8.2 | 1 | 318 | 5.9 | -4.9 | 2.2 | 1 | J |
| 7 | 428 | 8.6 | 97 | J | 7.2 | 0 | 332 | 6.1 | -2.9 | 1.4 | 2 | J |
| 8 | 452 | 9.2 | 73 | J | 7.7 | 3 | 327 | 5.4 | -3.0 | 2.0 | 4 | J |
| 9 | 498 | 8.5 | 113 | J | 7.1 | -7 | 240 | -2.0 | -3.3 | 1.3 | 6 | J |
| 10 | 519 | 9.5 | 144 | J | 6.3 | -21 | 251 | -1.6 | -5.0 | 0.8 | 3 | J |
| 11 | 525 | 7.3 | 169 | J | 7.0 | 5 | 301 | 2.2 | -3.0 | 2.2 | 6 | J |
| 12 | 538 | 8.0 | 148 | J | 7.0 | 17 | 330 | 5.5 | -1.8 | 3.3 | 2 | J |
| 13 | 535 | 7.0 | 168 | A | | | | | | | | |
| 14 | 545 | 7.5 | 199 | A | | | | | | | | |
| 15 | 538 | 7.1 | 197 | A | | | | | | | | |
| 16 | 533 | 7.3 | 191 | A | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 537 | 6.7 | 120 | J | 5.3 | 5 | 325 | 4.1 | -2.7 | 1.0 | 2 | J |
| 21 | 533 | 5.7 | 158 | J | 5.6 | 10 | 325 | 4.3 | -2.8 | 1.4 | 2 | J |
| 22 | 542 | 4.4 | 121 | J | 5.6 | 1 | 315 | 3.8 | -3.8 | 0.6 | 1 | J |
| 23 | 520 | 4.2 | 128 | J | 4.4 | 3 | 333 | 3.6 | -1.8 | 0.4 | 2 | J |
| 24 | 525 | 3.7 | 91 | J | 4.4 | -5 | 314 | 2.8 | -2.9 | 0.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 523 | 3.5 | 85 | J | 3.3 | -13 | 297 | 1.3 | -2.7 | -0.3 | 2 | J |
| 2 | 509 | 3.5 | 57 | J | 3.6 | -8 | 336 | 3.1 | -1.4 | -0.2 | 1 | J |
| 3 | 510 | 3.4 | 47 | J | 3.7 | -1 | 354 | 3.6 | -0.4 | 0.0 | 1 | J |
| 4 | 504 | 3.4 | 44 | J | 3.7 | 1 | 355 | 3.7 | -0.3 | 0.2 | 1 | J |
| 5 | 501 | 3.8 | 50 | J | 4.0 | -1 | 3 | 4.0 | 0.2 | -0.1 | 1 | J |
| 6 | 488 | 4.2 | 74 | J | 4.2 | 0 | 14 | 4.1 | 0.9 | -0.4 | 1 | J |
| 7 | 480 | 4.4 | 104 | J | 4.3 | -5 | 337 | 3.9 | -1.6 | 0.4 | 1 | J |
| 8 | 470 | 4.3 | 107 | J | 4.3 | -6 | 344 | 4.0 | -1.2 | 0.2 | 1 | J |
| 9 | 461 | 4.1 | 79 | J | 4.3 | -1 | 2 | 4.3 | 0.1 | -0.1 | 0 | J |
| 10 | 459 | 4.2 | 38 | J | 4.1 | -7 | 355 | 4.0 | -0.5 | -0.2 | 1 | J |
| 11 | 457 | 4.2 | 38 | J | 4.0 | -11 | 359 | 3.8 | -0.4 | -0.6 | 1 | J |
| 12 | 455 | 4.4 | 41 | J | 3.9 | 0 | 345 | 3.7 | -0.9 | 0.5 | 1 | J |
| 13 | 451 | 4.2 | 49 | J | 3.6 | 6 | 340 | 3.2 | -0.8 | 0.9 | 1 | J |
| 14 | 448 | 5.5 | 52 | J | 3.8 | -1 | 343 | 3.5 | -1.0 | 0.4 | 1 | J |
| 15 | 445 | 5.5 | 64 | J | 3.5 | -4 | 337 | 3.1 | -1.3 | 0.3 | 1 | J |
| 16 | 445 | 4.9 | 60 | J | 3.4 | 3 | 338 | 3.0 | -1.1 | 0.6 | 1 | J |
| 17 | 432 | 7.0 | 56 | J | 3.1 | -7 | 358 | 2.9 | -0.2 | -0.3 | 1 | J |
| 18 | 429 | 7.5 | 56 | J | 3.1 | 7 | 1 | 3.0 | 0.1 | 0.3 | 1 | J |
| 19 | 428 | 7.9 | 71 | J | 3.3 | 3 | 354 | 3.3 | -0.3 | 0.2 | 1 | J |
| 20 | 420 | 8.4 | 91 | J | 3.6 | 19 | 355 | 3.3 | -0.1 | 1.2 | 1 | J |
| 21 | 412 | 7.2 | 41 | J | 3.6 | 17 | 344 | 3.2 | -0.8 | 1.1 | 1 | J |
| 22 | 412 | 9.7 | 31 | J | 3.6 | 10 | 328 | 2.3 | -1.3 | 0.6 | 2 | J |
| 23 | 412 | 6.1 | 32 | J | 5.6 | 14 | 358 | 5.3 | -0.0 | 1.3 | 1 | J |
| 24 | 411 | 6.5 | 39 | J | 5.3 | 20 | 343 | 4.1 | -1.1 | 1.7 | 3 | J |

NOV. 1, 1977 305

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 6.5 | 35 | J | 5.4 | 10 | 0 | 5.1 | 0.1 | 0.9 | 2 | J |
| 2 | 404 | 5.7 | 34 | J | 5.5 | 9 | 6 | 5.4 | 0.7 | 0.7 | 1 | J |
| 3 | 401 | 5.8 | 39 | J | 5.6 | 4 | 354 | 5.5 | -0.5 | 0.5 | 1 | J |
| 4 | 396 | 5.7 | 42 | J | 4.8 | 11 | 332 | 4.1 | -1.8 | 1.5 | 1 | J |
| 5 | 394 | 6.4 | 39 | J | 5.2 | 16 | 328 | 4.2 | -2.0 | 2.2 | 1 | J |
| 6 | 388 | 7.0 | 45 | J | 4.9 | 17 | 318 | 3.3 | -2.2 | 2.4 | 2 | J |
| 7 | 399 | 9.7 | 45 | J | 4.2 | -41 | 210 | -1.8 | -1.7 | -1.2 | 3 | J |
| 8 | | | | | 4.0 | -10 | 288 | 1.1 | -3.2 | 1.0 | 2 | J |
| 9 | 397 | 11.5 | 51 | J | 5.1 | 27 | 324 | 3.2 | -1.0 | 2.9 | 3 | J |
| 10 | 398 | 10.2 | 48 | J | 5.2 | 18 | 298 | 2.1 | -2.6 | 3.2 | 2 | J |
| 11 | 399 | 9.7 | 48 | J | 4.5 | -3 | 286 | 0.9 | -2.6 | 1.4 | 3 | J |
| 12 | | | | | 5.2 | -6 | 254 | -1.4 | -4.4 | 1.9 | 2 | J |
| 13 | 417 | 9.6 | 98 | A | | | | | | | | |
| 14 | 421 | 8.6 | 100 | A | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 406 | 6.7 | 74 | A | | | | | | | | |
| 17 | 411 | 7.6 | 69 | A | 6.7 | 27 | 45 | 3.4 | 4.0 | 1.3 | 4 | J |
| 18 | 417 | 8.2 | 75 | A | | | | | | | | |
| 19 | 413 | 6.8 | 84 | A | 5.2 | 38 | 58 | 0.7 | 1.3 | 0.8 | 5 | J |
| 20 | 413 | 5.7 | 79 | A | | | | | | | | |
| 21 | 412 | 5.9 | 81 | A | | | | | | | | |
| 22 | 415 | 6.7 | 35 | J | 3.9 | -16 | 336 | 3.2 | -1.6 | -0.8 | 1 | J |
| 23 | 411 | 5.9 | 36 | J | 4.1 | -5 | 349 | 3.9 | -0.8 | -0.3 | 1 | J |
| 24 | 421 | 6.1 | 38 | J | 3.5 | -18 | 337 | 1.5 | -0.7 | -0.4 | 3 | J |

NOV. 2, 1977 306

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 427 | 7.0 | 52 | J | 3.3 | -23 | 222 | -2.1 | -2.1 | -0.9 | 1 | J |
| 2 | 423 | 8.8 | 50 | J | 3.5 | -15 | 249 | -1.0 | -2.7 | -0.3 | 2 | J |
| 3 | 431 | 8.3 | 83 | J | 5.7 | 23 | 349 | 4.9 | -0.5 | 2.3 | 2 | J |
| 4 | 445 | 8.1 | 110 | J | 6.4 | 16 | 16 | 5.8 | 2.1 | 1.2 | 1 | J |
| 5 | 437 | 8.5 | 151 | J | 6.2 | 10 | 11 | 6.0 | 1.5 | 0.6 | 1 | J |
| 6 | 432 | 8.3 | 192 | J | 6.1 | 4 | 8 | 6.0 | 0.9 | 0.1 | 1 | J |
| 7 | 435 | 7.3 | 97 | J | 5.7 | -6 | 341 | 5.4 | -1.9 | 0.2 | 0 | J |
| 8 | 427 | 7.6 | 120 | J | 5.3 | -12 | 350 | 3.9 | -1.0 | -0.4 | 3 | J |
| 9 | 423 | 7.0 | 125 | J | 4.6 | -7 | 345 | 4.4 | -1.3 | 0.1 | 1 | J |
| 10 | 415 | 6.8 | 48 | J | 4.6 | 10 | 324 | 3.5 | -1.8 | 1.9 | 1 | J |
| 11 | 409 | 8.9 | 54 | J | 5.2 | -16 | 304 | 2.7 | -4.1 | 0.8 | 1 | J |
| 12 | 410 | 9.7 | 47 | J | 4.1 | -30 | 267 | -0.1 | -3.2 | -0.0 | 3 | J |
| 13 | 395 | 9.0 | 52 | J | 3.8 | -6 | 310 | 2.1 | -2.4 | 0.9 | 2 | J |
| 14 | 392 | 7.9 | 46 | J | 3.6 | -18 | 295 | 1.2 | -2.6 | 0.3 | 2 | J |
| 15 | 383 | 6.7 | 56 | A | | | | | | | | |
| 16 | 386 | 6.3 | 57 | A | 2.9 | -16 | 327 | 1.8 | -1.3 | -0.2 | 2 | J |
| 17 | 394 | 6.7 | 53 | A | 2.8 | -29 | 310 | 1.6 | -2.2 | -0.7 | 1 | J |
| 18 | 412 | 6.6 | 44 | A | 5.3 | -29 | 219 | -3.5 | -3.4 | -1.7 | 1 | J |
| 19 | 403 | 7.1 | 59 | A | | | | | | | | |
| 20 | 408 | 7.0 | 65 | A | | | | | | | | |
| 21 | 403 | 6.4 | 74 | A | | | | | | | | |
| 22 | 393 | 7.8 | 53 | J | | | | | | | | |
| 23 | 398 | 6.7 | 38 | J | 5.1 | 24 | 347 | 4.3 | -0.8 | 2.1 | 2 | J |
| 24 | 413 | 6.7 | 75 | A | | | | | | | | |

NOV. 3, 1977 307

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 432 | 5.7 | 63 | J | 3.7 | 21 | 341 | 2.4 | -0.7 | 1.1 | 3 | J |
| 2 | 436 | 5.4 | 79 | J | 3.8 | 6 | 345 | 3.5 | -0.8 | 0.5 | 1 | J |
| 3 | 442 | 4.3 | 64 | J | 3.5 | 3 | 4 | 3.5 | 0.3 | 0.1 | 0 | J |
| 4 | 445 | 5.1 | 73 | J | 3.1 | 0 | 2 | 2.9 | 0.1 | -0.0 | 1 | J |
| 5 | 435 | 5.8 | 60 | J | 2.3 | -31 | 327 | 0.8 | -0.7 | -0.4 | 2 | J |
| 6 | 428 | 6.0 | 54 | J | 3.0 | -15 | 246 | -1.2 | -2.7 | 0.3 | 1 | J |
| 7 | 375 | 0.0 | 0 | H | | | | | | | | |
| 8 | 372 | 0.0 | 0 | H | | | | | | | | |
| 9 | 396 | 0.0 | 0 | H | | | | | | | | |
| 10 | 396 | 0.0 | 0 | H | | | | | | | | |
| 11 | 406 | 0.0 | 0 | H | | | | | | | | |
| 12 | 392 | 0.0 | 0 | H | | | | | | | | |
| 13 | 404 | 6.5 | 44 | J | 4.3 | -7 | 310 | 2.7 | -3.1 | 1.1 | 1 | J |
| 14 | 395 | 6.8 | 64 | J | 4.2 | -4 | 315 | 2.8 | -2.7 | 1.0 | 2 | J |
| 15 | 375 | 7.9 | 61 | L | 4.3 | 1 | 307 | 2.5 | -3.0 | 1.4 | 1 | J |
| 16 | 374 | 8.9 | 49 | L | 3.7 | 7 | 280 | 0.6 | -3.1 | 1.7 | 1 | J |
| 17 | 372 | 8.4 | 46 | L | 4.2 | -12 | 271 | 0.1 | -3.8 | 0.4 | 2 | J |
| 18 | | | | | 3.9 | -13 | 270 | 0.0 | -3.6 | 0.1 | 2 | J |
| 19 | 367 | 8.0 | 24 | J | 3.6 | -7 | 281 | 0.7 | -3.4 | 0.3 | 1 | J |
| 20 | | | | | | | | | | | | |
| 21 | 338 | 0.0 | 0 | H | 3.9 | 49 | 22 | 2.3 | 1.3 | 2.7 | 1 | J |
| 22 | 362 | 5.9 | 35 | L | 3.7 | 28 | 11 | 3.0 | 0.8 | 1.6 | 1 | J |
| 23 | 368 | 5.2 | 29 | J | 3.6 | 22 | 8 | 3.2 | 0.6 | 1.3 | 1 | J |
| 24 | 369 | 4.4 | 34 | J | 3.2 | 8 | 359 | 3.1 | -0.0 | 0.4 | 1 | J |

NOV. 4, 1977 308

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 5.2 | 40 | L | | | | | | | | |
| 2 | 364 | 5.0 | 39 | L | | | | | | | | |
| 3 | 358 | 6.2 | 33 | J | 2.2 | 10 | 320 | 1.7 | -1.3 | 0.7 | 0 | J |
| 4 | 363 | 6.1 | 24 | J | 2.5 | -27 | 310 | 1.3 | -1.7 | -0.6 | 1 | J |
| 5 | 357 | 6.2 | 26 | J | 2.9 | 3 | 340 | 2.7 | -0.9 | 0.5 | 0 | J |
| 6 | 360 | 5.5 | 21 | J | 3.0 | 8 | 343 | 2.8 | -0.7 | 0.7 | 0 | J |
| 7 | 348 | 5.7 | 21 | L | | | | | | | | |
| 8 | 343 | 5.8 | 25 | L | | | | | | | | |
| 9 | 338 | 7.0 | 27 | L | | | | | | | | |
| 10 | 338 | 8.2 | 28 | A | 2.8 | 14 | 17 | 2.3 | 0.9 | 0.2 | 1 | J |
| 11 | 358 | 10.8 | 38 | J | 2.9 | 27 | 20 | 2.3 | 1.4 | 0.7 | 1 | J |
| 12 | 356 | 15.4 | 38 | J | 3.1 | 1 | 35 | 1.9 | 1.2 | -0.6 | 2 | J |
| 13 | 366 | 14.2 | 29 | J | 4.0 | -59 | 72 | 0.6 | 0.1 | -3.5 | 2 | J |
| 14 | 358 | 16.1 | 36 | L | 4.8 | -31 | 301 | 1.7 | -3.5 | -0.6 | 3 | J |
| 15 | 364 | 16.0 | 26 | J | 5.6 | -14 | 305 | 2.5 | -3.7 | 0.4 | 4 | J |
| 16 | 368 | 10.3 | 19 | J | 7.1 | -45 | 127 | -2.8 | 1.9 | -5.7 | 3 | J |
| 17 | 372 | 8.1 | 22 | J | 7.6 | -21 | 116 | -3.0 | 5.1 | -4.4 | 2 | J |
| 18 | 374 | 9.6 | 22 | J | 7.7 | -51 | 132 | -3.0 | 1.9 | -6.3 | 3 | J |
| 19 | 373 | 10.3 | 19 | J | 8.0 | -23 | 121 | -3.7 | 5.5 | -4.3 | 1 | J |
| 20 | 376 | 9.2 | 22 | J | 7.6 | -21 | 118 | -3.3 | 5.7 | -3.7 | 1 | J |
| 21 | 375 | 7.7 | 23 | J | 7.6 | -15 | 113 | -2.8 | 6.3 | -2.8 | 2 | J |
| 22 | 372 | 7.2 | 20 | J | 7.7 | 6 | 102 | -1.6 | 7.4 | -0.0 | 1 | J |
| 23 | 371 | 6.8 | 20 | J | 7.7 | 3 | 105 | -1.9 | 7.2 | -0.4 | 2 | J |
| 24 | 375 | 8.4 | 24 | J | 7.8 | -10 | 118 | -2.7 | 4.9 | -1.5 | 5 | J |

NOV. 5, 1977 309

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 368 | 11.8 | 17 | J | 7.9 | -29 | 146 | -5.6 | 3.3 | -4.2 | 2 | J |
| 2 | 368 | 11.5 | 18 | J | 8.2 | -32 | 146 | -5.7 | 3.1 | -4.9 | 1 | J |
| 3 | 372 | 13.9 | 18 | J | 8.1 | -24 | 122 | -3.8 | 5.3 | -4.4 | 2 | J |
| 4 | 368 | 13.4 | 14 | J | 8.2 | -15 | 119 | -3.8 | 6.1 | -3.8 | 1 | J |
| 5 | 363 | 11.6 | 13 | J | 8.1 | -4 | 128 | -5.0 | 5.9 | -2.5 | 1 | J |
| 6 | 361 | 9.9 | 12 | J | 7.7 | 11 | 126 | -4.4 | 6.2 | -0.9 | 0 | J |
| 7 | 361 | 9.7 | 12 | J | 7.7 | 10 | 126 | -4.5 | 6.1 | -1.3 | 0 | J |
| 8 | 357 | 5.8 | 14 | L | 7.8 | 10 | 125 | -4.4 | 6.2 | -1.6 | 1 | J |
| 9 | 352 | 6.8 | 16 | J | 7.7 | 8 | 129 | -4.8 | 5.7 | -1.9 | 1 | J |
| 10 | 346 | 6.2 | 16 | L | | | | | | | | |
| 11 | 345 | 6.5 | 21 | J | 7.2 | 10 | 162 | -4.5 | 1.7 | 0.0 | 5 | J |
| 12 | 342 | 8.0 | 24 | J | 7.0 | 8 | 134 | -4.1 | 4.1 | -1.3 | 4 | J |
| 13 | 330 | 7.6 | 13 | J | 7.0 | 17 | 148 | -5.6 | 4.0 | 0.2 | 2 | J |
| 14 | 345 | 8.0 | 15 | J | 7.0 | 14 | 136 | -4.8 | 4.9 | -0.5 | 1 | J |
| 15 | 338 | 6.5 | 20 | L | 6.8 | 4 | 117 | -3.0 | 5.6 | -1.9 | 2 | J |
| 16 | 345 | 8.0 | 19 | J | 6.7 | 2 | 97 | -0.8 | 6.3 | -2.1 | 1 | J |
| 17 | 333 | 8.5 | 14 | J | 6.8 | 34 | 124 | -2.8 | 5.0 | 2.0 | 3 | J |
| 18 | 336 | 8.6 | 17 | J | 6.4 | 31 | 118 | -2.1 | 4.4 | 1.6 | 4 | J |
| 19 | 330 | 8.6 | 12 | J | 6.0 | -5 | 107 | -1.7 | 5.4 | -1.6 | 1 | J |
| 20 | 325 | 8.1 | 14 | J | 6.2 | 2 | 121 | -3.1 | 5.1 | -0.6 | 1 | J |
| 21 | 334 | 8.9 | 14 | J | 6.1 | 16 | 99 | -0.9 | 5.9 | 0.9 | 1 | J |
| 22 | 336 | 10.0 | 14 | J | 6.1 | 1 | 90 | 0.0 | 5.9 | -0.5 | 1 | J |
| 23 | 332 | 9.1 | 17 | J | 6.0 | -10 | 101 | -1.0 | 5.1 | -1.4 | 3 | J |
| 24 | 335 | 8.9 | 16 | J | 6.5 | 4 | 86 | 0.4 | 6.3 | -0.2 | 1 | J |

NOV. 6, 1977 310

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 334 | 9.1 | 14 | J | 6.9 | 13 | 90 | 0.0 | 6.6 | 0.7 | 2 | J |
| 2 | 336 | 9.2 | 17 | J | 6.7 | -7 | 81 | 0.9 | 5.5 | -1.6 | 3 | J |
| 3 | 327 | 9.6 | 15 | J | 6.8 | 15 | 101 | -1.2 | 6.2 | 0.4 | 2 | J |
| 4 | 329 | 9.7 | 13 | J | 7.1 | 19 | 97 | -0.8 | 6.6 | 0.5 | 2 | J |
| 5 | 332 | 10.8 | 12 | J | 6.8 | 31 | 86 | 0.4 | 6.5 | 1.5 | 1 | J |
| 6 | 329 | 10.3 | 17 | J | 6.5 | 17 | 93 | -0.3 | 5.9 | -0.4 | 3 | J |
| 7 | 326 | 10.6 | 20 | J | 6.6 | -3 | 96 | -0.6 | 5.4 | -2.8 | 2 | J |
| 8 | 332 | 10.9 | 15 | J | 7.1 | 24 | 79 | 1.1 | 6.2 | -0.2 | 3 | J |
| 9 | 322 | 10.8 | 18 | J | 7.5 | 36 | 97 | -0.7 | 6.8 | 1.0 | 3 | J |
| 10 | 326 | 11.5 | 19 | J | 6.9 | -18 | 90 | 0.0 | 4.1 | -4.4 | 3 | J |
| 11 | 327 | 10.5 | 20 | J | 6.8 | -13 | 68 | 1.9 | 3.6 | -3.4 | 4 | J |
| 12 | 327 | 10.2 | 16 | J | 7.6 | 11 | 68 | 2.7 | 6.6 | -2.0 | 2 | J |
| 13 | 319 | 10.2 | 16 | J | 7.4 | 3 | 79 | 1.3 | 6.3 | -2.8 | 2 | J |
| 14 | 311 | 10.2 | 14 | J | 7.5 | 7 | 82 | 1.0 | 7.1 | -2.3 | 1 | J |
| 15 | 309 | 10.3 | 18 | J | 7.5 | 5 | 82 | 1.0 | 7.1 | -2.3 | 1 | J |
| 16 | 304 | 9.5 | 15 | J | 7.5 | 11 | 82 | 1.0 | 7.2 | -1.1 | 1 | J |
| 17 | 306 | 7.9 | 13 | J | 7.5 | 16 | 73 | 2.0 | 6.7 | -0.0 | 2 | J |
| 18 | 310 | 8.3 | 15 | J | 7.5 | 12 | 63 | 3.2 | 6.5 | -0.1 | 2 | J |
| 19 | 304 | 9.2 | 13 | J | 7.3 | 12 | 76 | 1.7 | 6.9 | 0.1 | 1 | J |
| 20 | 304 | 8.8 | 13 | J | 7.1 | 4 | 80 | 1.2 | 6.7 | -0.6 | 2 | J |
| 21 | 302 | 9.5 | 13 | J | 7.0 | 11 | 81 | 1.0 | 6.6 | 0.5 | 2 | J |
| 22 | 301 | 8.8 | 15 | J | | | | | | | | |
| 23 | 313 | 8.3 | 13 | L | | | | | | | | |
| 24 | 309 | 8.1 | 15 | L | | | | | | | | |

## NOV. 7, 1977

311

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 310 | 6.1 | 7 | L | | | | | | | | |
| 2 | 311 | 5.2 | 5 | L | | | | | | | | |
| 3 | 312 | 6.4 | 10 | L | | | | | | | | |
| 4 | 315 | 9.1 | 15 | L | | | | | | | | |
| 5 | 315 | 7.5 | 8 | L | | | | | | | | |
| 6 | 316 | 5.7 | 6 | L | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 307 | 0.0 | 0 | H | | | | | | | | |
| 11 | 302 | 11.5 | 16 | L | | | | | | | | |
| 12 | 307 | 13.3 | 14 | L | | | | | | | | |
| 13 | 303 | 18.4 | 12 | L | | | | | | | | |
| 14 | 302 | 19.1 | 12 | L | | | | | | | | |
| 15 | 304 | 0.0 | 0 | H | | | | | | | | |
| 16 | 300 | 17.0 | 29 | L | | | | | | | | |
| 17 | 300 | 13.6 | 28 | L | | | | | | | | |
| 18 | 299 | 10.5 | 33 | L | | | | | | | | |
| 19 | 296 | 9.5 | 33 | L | | | | | | | | |
| 20 | 301 | 9.8 | 30 | L | | | | | | | | |
| 21 | 299 | 10.3 | 32 | L | | | | | | | | |
| 22 | 296 | 9.6 | 29 | L | | | | | | | | |
| 23 | 296 | 10.4 | 32 | L | | | | | | | | |
| 24 | 291 | 9.6 | 30 | L | | | | | | | | |

## NOV. 8, 1977

312

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 294 | 10.3 | 32 | L | | | | | | | | |
| 2 | 296 | 10.6 | 25 | L | | | | | | | | |
| 3 | 298 | 12.0 | 22 | L | | | | | | | | |
| 4 | 295 | 10.8 | 29 | L | | | | | | | | |
| 5 | 296 | 11.0 | 22 | L | | | | | | | | |
| 6 | 300 | 0.0 | 0 | H | | | | | | | | |
| 7 | 298 | 0.0 | 0 | H | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 290 | 9.6 | 26 | L | | | | | | | | |
| 10 | 291 | 8.0 | 20 | L | | | | | | | | |
| 11 | 300 | 0.0 | 0 | H | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 295 | 0.0 | 0 | H | | | | | | | | |
| 18 | 294 | 0.0 | 0 | H | | | | | | | | |
| 19 | 293 | 0.0 | 0 | H | | | | | | | | |
| 20 | 277 | 13.8 | 25 | L | | | | | | | | |
| 21 | 273 | 11.7 | 27 | L | | | | | | | | |
| 22 | 278 | 12.6 | 23 | L | | | | | | | | |
| 23 | 278 | 12.6 | 22 | L | | | | | | | | |
| 24 | 276 | 17.1 | 21 | A | | | | | | | | |

## NOV. 9, 1977

313

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 279 | 19.9 | 22 | A | | | | | | | | |
| 2 | 280 | 13.7 | 24 | L | | | | | | | | |
| 3 | 274 | 12.9 | 26 | L | | | | | | | | |
| 4 | 272 | 12.8 | 25 | L | | | | | | | | |
| 5 | 277 | 17.8 | 20 | A | | | | | | | | |
| 6 | 274 | 12.7 | 17 | L | | | | | | | | |
| 7 | 275 | 12.0 | 14 | L | | | | | | | | |
| 8 | 272 | 13.8 | 14 | L | | | | | | | | |
| 9 | 270 | 14.3 | 16 | L | | | | | | | | |
| 10 | 270 | 15.3 | 16 | L | | | | | | | | |
| 11 | 270 | 16.3 | 16 | L | | | | | | | | |
| 12 | 270 | 15.9 | 15 | L | | | | | | | | |
| 13 | 268 | 15.9 | 16 | L | | | | | | | | |
| 14 | 269 | 0.0 | 0 | H | | | | | | | | |
| 15 | 271 | 0.0 | 0 | H | | | | | | | | |
| 16 | 270 | 0.0 | 0 | H | | | | | | | | |
| 17 | 266 | 21.2 | 17 | A | | | | | | | | |
| 18 | 268 | 0.0 | 0 | H | | | | | | | | |
| 19 | 269 | 0.0 | 0 | H | | | | | | | | |
| 20 | 258 | 20.8 | 16 | A | | | | | | | | |
| 21 | 256 | 25.1 | 8 | L | | | | | | | | |
| 22 | 256 | 13.1 | 15 | L | | | | | | | | |
| 23 | 253 | 13.1 | 15 | L | | | | | | | | |
| 24 | 255 | 14.1 | 14 | L | | | | | | | | |

## NOV. 10, 1977

314

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 256 | 14.3 | 14 | L | | | | | | | | |
| 2 | 257 | 12.4 | 14 | L | | | | | | | | |
| 3 | 257 | 12.5 | 14 | L | | | | | | | | |
| 4 | 257 | 14.5 | 14 | L | | | | | | | | |
| 5 | 255 | 17.0 | 14 | L | | | | | | | | |
| 6 | 259 | 16.3 | 14 | L | | | | | | | | |
| 7 | 263 | 16.5 | 14 | L | | | | | | | | |
| 8 | 266 | 17.6 | 13 | L | | | | | | | | |
| 9 | 267 | 16.8 | 14 | L | | | | | | | | |
| 10 | 260 | 18.1 | 17 | L | | | | | | | | |
| 11 | 260 | 20.5 | 16 | L | 5.5 | 0 | 124 | -2.5 | 3.3 | -1.8 | 3 | J |
| 12 | 260 | 19.3 | 15 | L | 5.9 | 20 | 137 | -3.6 | 3.8 | 0.0 | 2 | J |
| 13 | 263 | 23.0 | 15 | L | | | | | | | | |
| 14 | 283 | 40.8 | 21 | L | 8.1 | -22 | 121 | -3.2 | 3.8 | -4.4 | 5 | J |
| 15 | 300 | 59.7 | 22 | L | 12.4 | -10 | 115 | -5.0 | 9.2 | -5.9 | 4 | J |
| 16 | 317 | 70.5 | 24 | L | 18.9 | 33 | 105 | -3.8 | 16.7 | 4.5 | 7 | J |
| 17 | 317 | 63.3 | 27 | L | 18.7 | 76 | 330 | 3.3 | 2.3 | 15.3 | 10 | J |
| 18 | 314 | 59.1 | 21 | L | 18.5 | 23 | 291 | 5.9 | -13.4 | 10.2 | 5 | J |
| 19 | 311 | 36.7 | 46 | L | 18.2 | 29 | 306 | 8.7 | -10.3 | 10.2 | 7 | J |
| 20 | 331 | 35.9 | 133 | L | 11.1 | -5 | 274 | 0.5 | -7.5 | 0.3 | 9 | J |
| 21 | 336 | 20.0 | 143 | L | 13.2 | 50 | 323 | 6.0 | -3.6 | 9.4 | 6 | J |
| 22 | 379 | 17.7 | 177 | L | 12.1 | -6 | 245 | -3.9 | -8.3 | -0.3 | 8 | J |
| 23 | 404 | 14.2 | 175 | L | 8.8 | -13 | 340 | 0.9 | -0.3 | -0.2 | 9 | J |
| 24 | 387 | 10.5 | 87 | L | 9.7 | 44 | 4 | 5.7 | 0.8 | 5.5 | 6 | J |

## NOV. 11, 1977

315

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 380 | 17.0 | 123 | L | 11.1 | 35 | 337 | 8.2 | -2.9 | 6.6 | 2 | J |
| 2 | 383 | 14.0 | 165 | L | 8.3 | 17 | 322 | 5.9 | -4.3 | 2.9 | 3 | J |
| 3 | 375 | 11.4 | 142 | L | 10.4 | 24 | 321 | 7.2 | -5.0 | 5.0 | 3 | J |
| 4 | 361 | 14.5 | 134 | L | 9.8 | 28 | 317 | 6.2 | -4.6 | 5.7 | 2 | J |
| 5 | 361 | 18.2 | 131 | L | 8.5 | 29 | 331 | 6.1 | -2.2 | 4.7 | 3 | J |
| 6 | 356 | 17.2 | 145 | L | 9.7 | 12 | 289 | 2.9 | -7.2 | 4.6 | 3 | J |
| 7 | 363 | 17.2 | 146 | L | 10.0 | 9 | 293 | 3.4 | -6.9 | 4.4 | 5 | J |
| 8 | 380 | 11.3 | 116 | J | 12.8 | 31 | 323 | 8.4 | -3.0 | 8.4 | 3 | J |
| 9 | 380 | 12.3 | 106 | J | 12.5 | 16 | 314 | 7.7 | -5.7 | 6.4 | 5 | J |
| 10 | 362 | 12.2 | 102 | J | 12.5 | -3 | 326 | 10.1 | -6.3 | 2.6 | 3 | J |
| 11 | 388 | 12.5 | 89 | J | 12.0 | 19 | 299 | 4.9 | -6.2 | 7.2 | 5 | J |
| 12 | 377 | 14.3 | 100 | J | 12.0 | -6 | 316 | 8.2 | -7.6 | 2.5 | 4 | J |
| 13 | 390 | 14.0 | 111 | J | 11.4 | -18 | 315 | 6.8 | -7.5 | 0.1 | 5 | J |
| 14 | 380 | 16.8 | 101 | J | 10.2 | 0 | 293 | 3.5 | -7.6 | 3.3 | 5 | J |
| 15 | 396 | 12.9 | 62 | J | 9.1 | 31 | 245 | -3.1 | -4.6 | 6.5 | 3 | J |
| 16 | 395 | 12.2 | 67 | J | 7.5 | 11 | 275 | 0.5 | -5.4 | 3.0 | 4 | J |
| 17 | 402 | 11.9 | 54 | J | 7.4 | 36 | 244 | -2.5 | -3.8 | 5.3 | 2 | J |
| 18 | 390 | 13.0 | 62 | J | 7.4 | 23 | 288 | 1.8 | -4.9 | 3.7 | 4 | J |
| 19 | 374 | 10.8 | 54 | J | 6.6 | 12 | 322 | 4.5 | -3.2 | 1.8 | 3 | J |
| 20 | 392 | 10.9 | 49 | J | 7.8 | 24 | 281 | 1.3 | -6.2 | 3.8 | 2 | J |
| 21 | 397 | 11.3 | 50 | J | 7.7 | 20 | 276 | 0.7 | -6.7 | 3.2 | 2 | J |
| 22 | 395 | 12.4 | 58 | J | 8.5 | 15 | 281 | 1.5 | -7.3 | 2.6 | 3 | J |
| 23 | 398 | 12.5 | 62 | J | 9.6 | 24 | 280 | 1.3 | -7.4 | 4.0 | 4 | J |
| 24 | 390 | 12.8 | 60 | J | 9.5 | 30 | 297 | 2.9 | -5.5 | 4.1 | 6 | J |

## NOV. 12, 1977

316

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 13.3 | 54 | J | 10.4 | -4 | 287 | 2.4 | -7.8 | 0.1 | 6 | J |
| 2 | 395 | 11.6 | 49 | J | 8.6 | -42 | 289 | 2.0 | -6.5 | -4.8 | 2 | J |
| 3 | 397 | 10.6 | 51 | J | 8.2 | -66 | 289 | 1.0 | -4.1 | -6.4 | 3 | J |
| 4 | 399 | 9.6 | 115 | A | 8.1 | -76 | 42 | 1.3 | -0.4 | -7.1 | 4 | J |
| 5 | 410 | 11.2 | 132 | A | 8.4 | -28 | 129 | -4.0 | 3.8 | -4.6 | 4 | J |
| 6 | 429 | 12.0 | 149 | A | | | | | | | | |
| 7 | 431 | 21.4 | 80 | J | 5.8 | 43 | 126 | -2.5 | 4.6 | 2.3 | 2 | J |
| 8 | 431 | 15.0 | 119 | J | 5.0 | -17 | 95 | -0.3 | 2.8 | -2.5 | 3 | J |
| 9 | 423 | 12.7 | 147 | J | 5.6 | 9 | 310 | 1.8 | -1.8 | 1.4 | 5 | J |
| 10 | 426 | 12.9 | 76 | J | 7.3 | 46 | 86 | 0.2 | 3.7 | 1.2 | 6 | J |
| 11 | 429 | 14.1 | 85 | J | 5.0 | 33 | 112 | -1.3 | 4.0 | 0.5 | 3 | J |
| 12 | 405 | 9.5 | 63 | J | 6.4 | -11 | 149 | -5.1 | 2.2 | -2.4 | 2 | J |
| 13 | 406 | 8.8 | 68 | J | 5.8 | -5 | 149 | -4.5 | 2.3 | -1.6 | 2 | J |
| 14 | 431 | 8.8 | 61 | J | 5.9 | 7 | 90 | 0.0 | 5.1 | -1.5 | 3 | J |
| 15 | 415 | 8.9 | 43 | J | 5.4 | -26 | 132 | -2.8 | 2.2 | -3.0 | 3 | J |
| 16 | 406 | 9.2 | 55 | J | 5.4 | 4 | 125 | -2.7 | 3.8 | -0.9 | 3 | J |
| 17 | 394 | 8.2 | 51 | J | 6.1 | -3 | 136 | -4.3 | 3.9 | -1.4 | 1 | J |
| 18 | 393 | 8.5 | 53 | J | 6.5 | -16 | 124 | -3.2 | 4.3 | -2.6 | 2 | J |
| 19 | 395 | 10.2 | 51 | J | 6.2 | -9 | 120 | -2.9 | 4.7 | -1.7 | 2 | J |
| 20 | 374 | 9.4 | 33 | J | 6.2 | 6 | 176 | -6.0 | 0.5 | 0.6 | 2 | J |
| 21 | 378 | 9.7 | 39 | J | 6.7 | -15 | 180 | -6.3 | -0.2 | -1.7 | 2 | J |
| 22 | 393 | 9.7 | 46 | J | 7.4 | -5 | 129 | -4.0 | 4.9 | -0.9 | 4 | J |
| 23 | 437 | 11.1 | 62 | J | 6.2 | -26 | 45 | 3.5 | 3.3 | -2.6 | 3 | J |
| 24 | 412 | 12.8 | 72 | J | 5.2 | -21 | 92 | -0.1 | 3.8 | -1.8 | 3 | J |

## NOV. 13, 1977

317

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 397 | 11.5 | 58 | J | 6.6 | -14 | 123 | -3.3 | 5.0 | -1.9 | 2 | J |
| 2 | 389 | 9.6 | 72 | J | 7.2 | -22 | 145 | -5.2 | 3.3 | -3.0 | 2 | J |
| 3 | 423 | 9.7 | 63 | J | 6.6 | -43 | 140 | -3.1 | 1.9 | -4.1 | 4 | J |
| 4 | 423 | 10.1 | 73 | J | 6.6 | -48 | 142 | -3.1 | 1.4 | -4.8 | 3 | J |
| 5 | 423 | 11.6 | 79 | J | 7.3 | -53 | 150 | -3.4 | 0.5 | -5.5 | 3 | J |
| 6 | | | | | 7.3 | -23 | 152 | -4.9 | 1.7 | -3.1 | 4 | J |
| 7 | 407 | 12.2 | 58 | J | 7.9 | -3 | 146 | -6.3 | 3.8 | -2.0 | 2 | J |
| 8 | 405 | 9.3 | 45 | J | 8.7 | 4 | 140 | -6.1 | 4.9 | -1.6 | 3 | J |
| 9 | 424 | 9.5 | 65 | J | 9.3 | -14 | 119 | -4.3 | 6.0 | -5.4 | 2 | J |
| 10 | 427 | 10.0 | 79 | J | 9.2 | -11 | 114 | -3.6 | 6.4 | -5.2 | 2 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 448 | 6.6 | 54 | J | 9.8 | -3 | 126 | -5.7 | 6.9 | -3.8 | 1 | J |
| 14 | 454 | 6.7 | 57 | J | 9.4 | -5 | 130 | -6.0 | 6.2 | -3.5 | 1 | J |
| 15 | 457 | 6.9 | 57 | J | 9.1 | -12 | 126 | -5.2 | 6.0 | -4.3 | 2 | J |
| 16 | 470 | 7.2 | 80 | J | 8.8 | 1 | 135 | -6.1 | 5.8 | -1.7 | 2 | J |
| 17 | 487 | 7.3 | 89 | J | 8.6 | 2 | 133 | -5.8 | 6.1 | -1.3 | 1 | J |
| 18 | 495 | 7.6 | 81 | J | 8.5 | -1 | 128 | -5.1 | 6.4 | -1.5 | 2 | J |
| 19 | 503 | 7.5 | 83 | J | 8.5 | 1 | 127 | -5.1 | 6.6 | -0.9 | 1 | J |
| 20 | 503 | 7.7 | 91 | J | 8.8 | 8 | 133 | -5.5 | 6.0 | 0.4 | 3 | J |
| 21 | 517 | 9.0 | 124 | J | 8.8 | 43 | 178 | -2.9 | 0.3 | 2.7 | 8 | J |
| 22 | 476 | 7.9 | 148 | A | | | | | | | | |
| 23 | 479 | 9.6 | 173 | A | 8.8 | -16 | 138 | -6.1 | 5.3 | -2.6 | 2 | J |
| 24 | 508 | 11.0 | 113 | J | 10.9 | -7 | 128 | -6.3 | 8.0 | -1.7 | 4 | J |

## NOV. 14, 1977

318

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 508 | 11.2 | 116 | J | 11.7 | -12 | 117 | -5.1 | 9.7 | -3.1 | 2 | J |
| 2 | 497 | 11.4 | 123 | J | 11.9 | -3 | 121 | -6.0 | 9.9 | -1.7 | 2 | J |
| 3 | 482 | 11.4 | 113 | J | 12.8 | 6 | 127 | -7.1 | 9.5 | -0.2 | 5 | J |
| 4 | 486 | 13.1 | 196 | J | 11.1 | 7 | 142 | -5.9 | 4.7 | -0.1 | 8 | J |
| 5 | 477 | 12.0 | 174 | J | 11.4 | 10 | 142 | -7.0 | 5.7 | 0.1 | 7 | J |
| 6 | 518 | 9.8 | 397 | A | | | | | | | | |
| 7 | 544 | 9.2 | 533 | J | 9.6 | -16 | 123 | -4.6 | 5.6 | -4.8 | 4 | J |
| 8 | 552 | 7.1 | 508 | A | 9.8 | 12 | 117 | -3.9 | 7.7 | -1.5 | 5 | J |
| 9 | 577 | 7.1 | 610 | J | 10.3 | 5 | 119 | -3.7 | 6.2 | -2.3 | 7 | J |
| 10 | 594 | 5.6 | 284 | J | 9.2 | 15 | 134 | -4.2 | 4.6 | -0.5 | 7 | J |
| 11 | 594 | 5.4 | 237 | J | 9.0 | -2 | 141 | -5.1 | 3.6 | -2.1 | 6 | J |
| 12 | 544 | 6.5 | 198 | J | 8.8 | 12 | 141 | -6.0 | 5.1 | -0.7 | 4 | J |
| 13 | 534 | 6.1 | 184 | J | 9.6 | -2 | 126 | -4.9 | 6.0 | -3.1 | 5 | J |
| 14 | 523 | 6.3 | 164 | J | 10.4 | -19 | 128 | -5.7 | 5.5 | -5.8 | 4 | J |
| 15 | 535 | 6.7 | 228 | J | 9.9 | -19 | 120 | -4.1 | 5.6 | -5.1 | 5 | J |
| 16 | 550 | 7.5 | 243 | J | 9.1 | 26 | 131 | -3.7 | 4.9 | 1.3 | 7 | J |
| 17 | 534 | 6.7 | 292 | J | 8.6 | -10 | 133 | -5.2 | 5.1 | -2.7 | 4 | J |
| 18 | 522 | 6.2 | 278 | J | 10.1 | -15 | 132 | -6.3 | 6.3 | -3.9 | 3 | J |
| 19 | 604 | 5.3 | 174 | J | 9.4 | -3 | 139 | -6.7 | 5.7 | -1.4 | 3 | J |
| 20 | 599 | 5.5 | 164 | J | 8.8 | -40 | 149 | -4.7 | 2.3 | -4.8 | 5 | J |
| 21 | 611 | 4.6 | 287 | A | 8.6 | -23 | 137 | -4.7 | 4.2 | -3.1 | 5 | J |
| 22 | 634 | 4.6 | 324 | A | 8.3 | -40 | 122 | -3.0 | 4.6 | -5.1 | 4 | J |
| 23 | 614 | 4.4 | 283 | A | | | | | | | | |
| 24 | 623 | 4.3 | 268 | A | | | | | | | | |

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NOV. 15, 1977 319

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 613 | 4.1 | 123 | J | 6.0 | -4 | 160 | -5.5 | 2.0 | -0.6 | 1 | J |
| 2 | 615 | 4.3 | 121 | J | 6.5 | 22 | 173 | -5.5 | 0.9 | 2.2 | 2 | J |
| 3 | 610 | 3.9 | 119 | J | 6.3 | 10 | 172 | -5.6 | 0.9 | 0.9 | 3 | J |
| 4 | 615 | 3.4 | 118 | J | 6.0 | 6 | 171 | -5.4 | 1.0 | 0.4 | 2 | J |
| 5 | 620 | 3.6 | 109 | J | 5.8 | 12 | 186 | -5.3 | -0.2 | 1.2 | 2 | J |
| 6 | 617 | 3.6 | 100 | J | 6.0 | 17 | 188 | -5.5 | -0.2 | 1.9 | 2 | J |
| 7 | | | | | 6.0 | 19 | 179 | -5.5 | 0.8 | 1.7 | 2 | J |
| 8 | 630 | 3.5 | 140 | J | 5.9 | 14 | 192 | -5.5 | -0.5 | 1.8 | 1 | J |
| 9 | | | | | 6.1 | 24 | 167 | -5.4 | 2.2 | 1.7 | 0 | J |
| 10 | 695 | 2.6 | 168 | J | 5.2 | -47 | 97 | -0.3 | 1.0 | -3.4 | 4 | J |
| 11 | 695 | 2.9 | 213 | J | 4.4 | -10 | 157 | -3.3 | 1.0 | -1.2 | 2 | J |
| 12 | 616 | 2.8 | 105 | J | 4.7 | 7 | 168 | -4.3 | 1.1 | 0.1 | 2 | J |
| 13 | 617 | 2.9 | 138 | J | 4.8 | 3 | 148 | -3.7 | 2.2 | -0.8 | 2 | J |
| 14 | | | | | 4.1 | -30 | 122 | -1.6 | 1.7 | -2.6 | 2 | J |
| 15 | | | | | 4.2 | -10 | 169 | -3.7 | 0.4 | -0.9 | 2 | J |
| 16 | 583 | 0.0 | 0 | H | 4.1 | 6 | 149 | -3.0 | 1.8 | -0.2 | 2 | J |
| 17 | | | | | 3.8 | -4 | 142 | -2.9 | 2.1 | -0.8 | 1 | J |
| 18 | | | | | | | | | | | | |
| 19 | 592 | 2.8 | 155 | J | 4.4 | 13 | 122 | -1.5 | 2.5 | 0.3 | 3 | J |
| 20 | 562 | 3.1 | 91 | J | 4.9 | 46 | 170 | -3.2 | 0.9 | 3.3 | 1 | J |
| 21 | 569 | 2.7 | 132 | J | 4.1 | -3 | 137 | -2.6 | 2.4 | -0.4 | 2 | J |
| 22 | 574 | 2.9 | 149 | J | 4.5 | 5 | 119 | -1.7 | 3.1 | 0.2 | 3 | J |
| 23 | 562 | 2.9 | 127 | J | 4.2 | -4 | 139 | -2.7 | 2.3 | -0.4 | 2 | J |
| 24 | 600 | 3.2 | 151 | J | 4.0 | -61 | 41 | 1.4 | 1.1 | -3.4 | 1 | J |

NOV. 16, 1977 320

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 549 | 3.3 | 110 | J | 4.2 | -7 | 137 | -2.5 | 2.3 | -0.6 | 2 | J |
| 525 | 3.4 | 105 | J | 4.2 | -8 | 171 | -3.0 | 0.4 | -0.5 | 3 | J |
| 500 | 0.0 | 0 | H | 3.9 | 2 | 68 | 1.3 | 3.2 | -0.3 | 2 | J |
| 523 | 3.8 | 189 | J | 4.8 | 51 | 170 | -2.5 | 1.0 | 3.0 | 3 | J |
| 533 | 4.1 | 148 | J | 4.6 | -6 | 125 | -2.3 | 3.0 | -1.2 | 2 | J |
| 519 | 3.7 | 92 | J | 4.6 | -44 | 145 | -2.3 | 0.7 | -3.1 | 2 | J |
| 515 | 3.8 | 97 | J | 3.9 | 7 | 134 | -2.1 | 2.1 | -0.4 | 2 | J |
| 502 | 4.0 | 104 | J | 4.5 | -15 | 119 | -2.0 | 2.8 | -2.4 | 2 | J |
| 513 | 4.1 | 102 | J | 4.6 | -23 | 112 | -1.5 | 2.6 | -3.1 | 2 | J |
| 535 | 4.6 | 116 | L | 4.4 | -19 | 97 | -0.4 | 2.3 | -2.3 | 3 | J |
| 525 | 4.8 | 103 | J | 4.3 | -21 | 95 | -0.3 | 2.4 | -2.6 | 2 | J |
| 521 | 4.7 | 101 | J | 4.2 | -65 | 92 | -0.1 | -0.0 | -3.4 | 2 | J |
| 515 | 4.8 | 101 | J | 4.6 | -45 | 111 | -1.0 | 1.2 | -3.7 | 2 | J |
| 488 | 4.8 | 124 | L | 4.6 | 19 | 134 | -2.8 | 3.2 | 0.2 | 2 | J |
| 495 | 4.2 | 120 | L | | | | | | | | |
| 492 | 4.5 | 117 | L | | | | | | | | |
| 483 | 5.1 | 117 | J | 4.0 | -18 | 173 | -2.9 | 0.1 | -1.0 | 3 | J |
| 478 | 5.3 | 130 | J | 3.8 | 40 | 185 | -2.1 | 0.2 | 1.8 | 2 | J |
| 502 | 4.9 | 90 | J | 4.2 | -16 | 75 | 0.9 | 3.2 | -1.5 | 2 | J |
| 488 | 5.0 | 118 | L | 4.4 | -17 | 92 | -0.1 | 2.7 | -1.1 | 3 | J |
| 476 | 4.6 | 108 | J | 4.3 | 3 | 101 | -0.4 | 2.3 | -0.0 | 4 | J |
| 488 | 3.8 | 94 | J | 4.8 | -16 | 106 | -1.2 | 4.0 | -1.4 | 2 | J |
| 493 | 3.9 | 97 | J | 4.7 | -18 | 106 | -1.1 | 3.8 | -1.4 | 2 | J |
| 487 | 4.2 | 102 | J | 4.6 | 0 | 119 | -1.8 | 3.3 | -0.1 | 3 | J |

NOV. 17, 1977 321

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 492 | 4.1 | 103 | J | 4.4 | 22 | 124 | -1.9 | 2.9 | 1.2 | 2 | J |
| 2 | 481 | 3.9 | 90 | J | 4.4 | 28 | 127 | -2.1 | 2.9 | 1.6 | 2 | J |
| 3 | 492 | 3.8 | 83 | J | 4.0 | -15 | 132 | -1.7 | 1.8 | -0.9 | 3 | J |
| 4 | 485 | 3.1 | 78 | J | 3.8 | -50 | 122 | -1.1 | 1.2 | -2.7 | 2 | J |
| 5 | 465 | 3.2 | 64 | J | 4.0 | -25 | 165 | -3.1 | 0.4 | -1.6 | 2 | J |
| 6 | 471 | 3.3 | 61 | J | 4.1 | 4 | 137 | -2.4 | 2.2 | -0.5 | 2 | J |
| 7 | 472 | 3.5 | 71 | J | 3.8 | -19 | 205 | -2.7 | -1.5 | -0.5 | 2 | J |
| 8 | 474 | 3.5 | 86 | L | 4.2 | 25 | 190 | -3.1 | 0.1 | 1.6 | 2 | J |
| 9 | 465 | 3.6 | 80 | L | 4.2 | -3 | 199 | -3.1 | -1.0 | 0.3 | 3 | J |
| 10 | 467 | 3.4 | 63 | J | 3.9 | -42 | 188 | -2.6 | -1.4 | -2.0 | 1 | J |
| 11 | 463 | 3.2 | 76 | L | 4.2 | 5 | 194 | -3.5 | -0.6 | 0.7 | 2 | J |
| 12 | 454 | 3.1 | 81 | L | 4.3 | 32 | 170 | -3.3 | 1.4 | 1.7 | 1 | J |
| 13 | 454 | 3.5 | 42 | J | 4.3 | 40 | 170 | -3.2 | 1.6 | 2.2 | 1 | J |
| 14 | 457 | 3.6 | 61 | J | 4.2 | 45 | 191 | -2.8 | 0.6 | 2.9 | 1 | J |
| 15 | 451 | 3.5 | 51 | J | 4.0 | 39 | 181 | -3.0 | 0.7 | 2.3 | 1 | J |
| 16 | 437 | 3.9 | 107 | J | 3.7 | 22 | 160 | -2.8 | 1.3 | 0.9 | 2 | J |
| 17 | 424 | 4.2 | 140 | J | 4.2 | 24 | 173 | -3.6 | 0.8 | 1.5 | 1 | J |
| 18 | 437 | 3.9 | 90 | L | 4.6 | 33 | 197 | -3.4 | -0.6 | 2.5 | 2 | J |
| 19 | 443 | 3.9 | 82 | J | 4.3 | 41 | 185 | -2.4 | 0.1 | 2.1 | 3 | J |
| 20 | 426 | 4.0 | 88 | J | 4.1 | 18 | 189 | -3.7 | -0.5 | 1.3 | 1 | J |
| 21 | 427 | 4.4 | 87 | J | 4.3 | -15 | 195 | -3.0 | -0.8 | -0.8 | 3 | J |
| 22 | 460 | 4.4 | 64 | J | 4.4 | -39 | 74 | 0.9 | 3.0 | -2.7 | 2 | J |
| 23 | 444 | 4.4 | 92 | J | 3.7 | -29 | 164 | -1.3 | 0.4 | -0.8 | 3 | J |
| 24 | 444 | 4.5 | 77 | J | 4.2 | 10 | 101 | -0.7 | 3.6 | 0.5 | 2 | J |

NOV. 18, 1977 322

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 426 | 4.3 | 89 | J | 4.3 | 50 | 177 | -2.5 | 0.3 | 3.0 | 2 | J |
| 438 | 4.3 | 68 | J | 4.3 | 0 | 103 | -0.8 | 3.5 | -0.3 | 2 | J |
| 436 | 4.1 | 68 | J | 3.9 | 2 | 107 | -0.8 | 2.7 | -0.3 | 3 | J |
| 428 | 4.3 | 73 | J | 3.7 | -55 | 210 | -1.6 | -1.4 | -2.5 | 2 | J |
| 436 | 4.2 | 75 | J | 3.8 | -64 | 174 | -0.7 | -0.3 | -1.5 | 3 | J |
| 430 | 4.2 | 79 | J | 3.8 | 4 | 106 | -0.9 | 3.1 | -0.7 | 2 | J |
| 431 | 3.9 | 64 | J | 3.9 | 1 | 99 | -0.5 | 3.3 | -1.2 | 2 | J |
| 418 | 3.9 | 54 | J | 3.6 | -1 | 119 | -1.5 | 2.5 | -1.1 | 2 | J |
| 439 | 4.0 | 58 | J | 3.7 | -8 | 69 | 1.1 | 2.4 | -1.6 | 2 | J |
| 428 | 3.8 | 55 | J | 3.9 | 13 | 101 | -0.5 | 2.8 | -0.6 | 3 | J |
| 412 | 3.7 | 43 | J | 3.8 | 12 | 124 | -1.8 | 2.7 | -0.5 | 2 | J |
| 405 | 3.8 | 67 | J | 3.2 | 44 | 187 | -2.1 | 0.6 | 1.9 | 1 | J |
| 390 | 4.3 | 107 | J | 3.4 | -8 | 164 | -3.1 | 0.6 | -0.8 | 1 | J |
| 402 | 4.1 | 71 | J | 3.3 | -40 | 172 | -2.4 | -0.4 | -2.0 | 1 | J |
| 401 | 4.0 | 49 | J | 3.4 | -14 | 131 | -2.2 | 2.1 | -1.6 | 1 | J |
| 398 | 4.3 | 50 | J | 3.5 | -34 | 127 | -1.7 | 1.6 | -2.5 | 1 | J |
| 381 | 4.9 | 47 | J | 3.2 | -25 | 120 | -1.5 | 2.1 | -1.9 | 1 | J |
| 388 | 5.4 | 37 | J | 3.9 | -10 | 80 | 0.6 | 3.0 | -1.1 | 2 | J |
| 395 | 5.9 | 41 | J | 4.4 | -29 | 64 | 1.5 | 2.9 | -2.3 | 2 | J |
| 392 | 6.3 | 38 | J | 4.5 | -9 | 89 | 0.1 | 4.0 | -1.0 | 2 | J |
| 389 | 6.5 | 39 | J | 4.9 | -21 | 67 | 1.6 | 3.7 | -1.8 | 2 | J |
| 386 | 6.0 | 54 | J | 4.3 | 13 | 103 | -0.7 | 3.0 | 0.6 | 3 | J |
| 374 | 6.0 | 45 | J | 4.3 | 12 | 150 | -3.0 | 1.8 | 0.7 | 2 | J |
| 391 | 5.4 | 70 | L | | | | | | | | |

NOV. 19, 1977 323

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 391 | 5.6 | 81 | L | | | | | | | | |
| 2 | 390 | 5.6 | 82 | L | | | | | | | | |
| 3 | 393 | 6.8 | 83 | L | | | | | | | | |
| 4 | 402 | 7.5 | 66 | L | | | | | | | | |
| 5 | 403 | 0.0 | 0 | H | | | | | | | | |
| 6 | 389 | 7.9 | 76 | L | | | | | | | | |
| 7 | 390 | 7.6 | 77 | L | | | | | | | | |
| 8 | 394 | 8.2 | 80 | L | | | | | | | | |
| 9 | 370 | 6.8 | 83 | L | | | | | | | | |
| 10 | 384 | 7.8 | 94 | L | | | | | | | | |
| 11 | 391 | 7.4 | 90 | L | | | | | | | | |
| 12 | 372 | 7.1 | 90 | L | | | | | | | | |
| 13 | 368 | 6.7 | 90 | L | | | | | | | | |
| 14 | 380 | 7.5 | 114 | L | | | | | | | | |
| 15 | 380 | 7.0 | 103 | L | | | | | | | | |
| 16 | 370 | 6.5 | 86 | L | | | | | | | | |
| 17 | 375 | 7.5 | 100 | L | | | | | | | | |
| 18 | 372 | 8.0 | 88 | L | | | | | | | | |
| 19 | 367 | 8.3 | 83 | L | | | | | | | | |
| 20 | 354 | 7.9 | 76 | L | | | | | | | | |
| 21 | 355 | 7.8 | 72 | L | | | | | | | | |
| 22 | 363 | 10.1 | 79 | L | | | | | | | | |
| 23 | 319 | 10.9 | 97 | A | | | | | | | | |
| 24 | | | | | | | | | | | | |

NOV. 20, 1977 324

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 354 | 0.0 | 0 | H | | | | | | | | |
| 343 | 0.0 | 0 | H | | | | | | | | |
| 335 | 0.0 | 0 | H | | | | | | | | |
| 345 | 10.1 | 82 | L | | | | | | | | |
| 332 | 8.1 | 65 | L | | | | | | | | |
| 336 | 0.0 | 0 | H | | | | | | | | |
| 361 | 12.2 | 81 | L | | | | | | | | |
| 369 | 0.0 | 0 | H | | | | | | | | |
| 347 | 0.0 | 0 | H | | | | | | | | |
| 341 | 0.0 | 0 | H | | | | | | | | |
| 348 | 0.0 | 0 | H | | | | | | | | |
| 342 | 11.2 | 86 | L | | | | | | | | |
| 329 | 10.1 | 80 | L | | | | | | | | |
| 342 | 0.0 | 0 | H | | | | | | | | |
| 336 | 0.0 | 0 | H | | | | | | | | |
| 332 | 11.1 | 92 | L | | | | | | | | |
| 343 | 13.6 | 101 | L | | | | | | | | |
| 360 | 12.1 | 110 | L | | | | | | | | |
| 360 | 14.1 | 102 | L | | | | | | | | |
| 367 | 14.0 | 58 | A | | | | | | | | |
| 363 | 10.0 | 86 | L | | | | | | | | |
| 366 | 10.9 | 72 | L | | | | | | | | |
| 343 | 9.5 | 63 | L | | | | | | | | |
| 330 | 11.6 | 75 | A | | | | | | | | |

NOV. 21, 1977 325

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 347 | 13.4 | 60 | A | | | | | | | | |
| 2 | 348 | 11.1 | 61 | L | | | | | | | | |
| 3 | 343 | 0.0 | 0 | H | | | | | | | | |
| 4 | 343 | 11.3 | 58 | L | | | | | | | | |
| 5 | 343 | 11.0 | 58 | L | | | | | | | | |
| 6 | 340 | 12.0 | 59 | L | | | | | | | | |
| 7 | 335 | 11.7 | 66 | L | | | | | | | | |
| 8 | 337 | 10.1 | 59 | L | | | | | | | | |
| 9 | 336 | 10.7 | 52 | L | | | | | | | | |
| 10 | 340 | 14.3 | 48 | L | | | | | | | | |
| 11 | 335 | 0.0 | 0 | H | | | | | | | | |
| 12 | 331 | 15.1 | 29 | L | | | | | | | | |
| 13 | 324 | 14.3 | 42 | L | | | | | | | | |
| 14 | 326 | 15.8 | 34 | L | | | | | | | | |
| 15 | 326 | 16.0 | 30 | L | | | | | | | | |
| 16 | 328 | 13.2 | 28 | L | | | | | | | | |
| 17 | 328 | 13.7 | 23 | L | | | | | | | | |
| 18 | 324 | 12.7 | 22 | L | | | | | | | | |
| 19 | 322 | 11.8 | 21 | L | | | | | | | | |
| 20 | 318 | 14.6 | 21 | A | | | | | | | | |
| 21 | 316 | 11.2 | 25 | L | | | | | | | | |
| 22 | 317 | 12.3 | 23 | L | | | | | | | | |
| 23 | 320 | 16.9 | 18 | A | | | | | | | | |
| 24 | 318 | 16.1 | 20 | A | | | | | | | | |

NOV. 22, 1977 326

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 317 | 16.1 | 22 | A | | | | | | | | |
| 314 | 16.0 | 23 | A | | | | | | | | |
| 321 | 14.0 | 28 | L | | | | | | | | |
| 323 | 15.0 | 24 | L | | | | | | | | |
| 322 | 15.7 | 25 | L | | | | | | | | |
| 326 | 0.0 | 0 | H | | | | | | | | |
| 317 | 0.0 | 0 | H | | | | | | | | |
| 320 | 0.0 | 0 | H | | | | | | | | |
| 301 | 20.7 | 33 | A | | | | | | | | |
| | | | | | | | | | | | |
| 331 | 0.0 | 0 | H | | | | | | | | |
| 332 | 0.0 | 0 | H | | | | | | | | |
| 321 | 0.0 | 0 | H | | | | | | | | |
| 319 | 0.0 | 0 | H | | | | | | | | |
| 315 | 0.0 | 0 | H | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 307 | 11.7 | 60 | L | | | | | | | | |
| 316 | 12.8 | 58 | L | | | | | | | | |
| 318 | 13.0 | 37 | J | 3.9 | 38 | 359 | 2.8 | -0.1 | 2.2 | 2 | J |
| 317 | 14.0 | 36 | J | 4.3 | 24 | 325 | 3.0 | -1.8 | 1.5 | 2 | J |

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HR      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                      SC

                          NOV. 23, 1977                     327

 1      312 13.9  38  J   4.1  12 336   3.1  -1.4   0.8  2  J
 2      315 14.3  33  J   4.7  10 296   1.8  -3.6   0.9  2  J
 3      309 13.6  30  J   4.9  14 306   2.5  -3.3   1.4  2  J
 4      311 13.3  26  J   4.8  27 292   1.4  -3.1   2.4  2  J
 5      313 12.8  38  J   4.9  26 341   3.6  -0.8   2.1  3  J
 6      311 10.8  34  J   4.7  13 336   3.8  -1.4   1.4  2  J
 7      308 13.0  25  J   4.6  54 315   1.9  -0.6   4.0  1  J
 8      308 13.0  24  J   4.9  46 312   2.1  -1.0   3.9  1  J
 9      305 13.5  20  J   4.4  31 303   1.9  -1.8   3.0  2  J
10      302 14.3  16  J   3.0   3 293   1.0  -2.1   1.1  1  J
11      299 16.2  15  J   2.7  16 322   1.8  -1.0   1.2  1  J
12      299 16.3  13  J   2.8 -20 299   1.2  -2.3   0.0  1  J
13      298 15.6  13  J   3.2 -15 302   1.2  -2.1   0.2  2  J
14      300 18.0  11  J   3.7  62 323   1.2   0.1   2.9  2  J
15      301 14.3  15  J   4.7   8 267  -0.2  -4.0   1.9  2  J
16      306 15.1  16  J   6.1  25 255  -1.4  -4.4   3.7  2  J
17      302 14.3  14  J   5.6  64 267  -0.1  -1.4   5.3  1  J
18      301 16.1  14  J   4.4  68 267  -0.1  -1.0   4.0  2  J
19      298 14.4  17  J   4.2  48 298   1.3  -2.1   3.3  1  J
20      294 13.3  18  J   4.4  44 303   1.6  -2.4   3.1  1  J
21      294 14.5  17  J   3.9  47 304   1.5  -2.1   2.9  1  J
22      296 14.7  16  J   3.9  51 299   1.2  -2.1   3.0  1  J
23      288 17.9  17  J   2.5 -39 346   1.4  -0.3  -1.1  2  J
24      290 18.8  15  J   2.6 -39  73   0.4   1.3  -1.1  2  J

                          NOV. 25, 1977                     329

 1      294 10.4  20  J   3.4  20 306   1.3  -1.7   0.8  2  J
 2      296 10.2  18  J   4.0  -5 270   0.0  -4.0  -0.2  1  J
 3      293 10.8  20  J   3.8  -5 273   0.2  -3.7  -0.0  1  J
 4      298 11.3  19  J   3.8  15 276   0.4  -3.2   1.4  2  J
 5      293 11.5  21  J   3.6  -2 295   1.3  -2.7   0.4  2  J
 6      294 12.0  18  J   4.0  25 291   1.0  -2.2   1.9  3  J
 7      293 11.2  18  J   4.9  13 284   1.1  -3.8   2.3  2  J
 8      293 11.3  18  J   4.1 -42 299   1.3  -3.1  -1.5  2  J
 9      291 11.0  17  J   3.6 -69 280   0.2  -1.9  -2.0  2  J
10      290 10.7  19  J   2.9  -2 303   1.4  -2.0   0.8  1  J
11      284 11.0  17  J   3.1  25 315   1.8  -1.2   1.8  1  J
12      281 11.2  16  J   2.6 -17 335   2.2  -1.2  -0.3  1  J
13      320 35.8  50  J   5.7 -30 343   4.4  -2.2  -2.0  2  J
14      344 55.7  67  J   8.5 -10 282   1.2  -5.6   0.9  6  J
15      354 75.2  48  J   7.5  45 175  -3.7   1.4   3.4  6  J
16      343116.7  39  L   3.1  48  73   0.5   2.0   1.4  2  J
17      341 74.0  54  J   5.2  20  50   1.8   2.2   0.6  4  J
18      349 52.1  57  J  12.4 -15  52   3.7   4.5  -2.2 11  J
19      351 29.4  55  J  16.4 -61 313   5.4  -7.0 -13.7  1  J
20      333 38.2  66  A
21      333 45.1  67  A
22      339 45.4  68  A
23      346 27.5  44  A
24      349 19.0  38  A

                          NOV. 27, 1977                     331

 1      387 42.0  55  J  14.6  34 315   5.0  -5.1   4.8 13  J
 2      388 23.5  35  J  19.8  48 314   9.1  -9.1  14.8  3  J
 3      415 21.1 179  J  14.5  54 327   6.5  -3.5  10.9  6  J
 4      422 18.4 237  J
 5
 6      485 10.3 270  J  13.4 -34 298   4.3  -9.4  -4.0  7  J
 7                       11.8  13 320   8.7  -6.2   4.7  1  J
 8                        8.8  28 355   7.7   0.8   4.1  0  J
 9      523  7.9 181  J   8.3  35  12   6.5   3.0   3.8  2  J
10      521  6.3 142  J   6.1  10 308   1.9  -2.0   1.4  5  J
11      539  6.7 176  J   4.4   0 244  -1.5  -2.8   1.2  3  J
12      533  6.9 175  J   4.1  16 247  -1.4  -2.7   2.2  2  J
13      536  5.8 120  J   5.3   2 226  -3.3  -3.1   1.3  2  J
14      511  5.2  95  J   4.7   7 275   0.4  -3.8   1.8  2  J
15      504  5.2  89  J   5.3  13 278   0.6  -3.9   2.2  3  J
16      488  5.4  95  J   5.3   1 319   3.3  -2.8   0.7  3  J
17      478  6.0 134  J   5.4   3 332   4.6  -2.4   0.7  1  J
18      473  6.0 103  J   5.3   8 313   3.3  -3.4   1.1  2  J
19      470  6.7  96  J   5.4  15 315   3.3  -3.2   1.5  2  J
20      463  6.1  63  J   5.4   7 304   2.8  -4.1   0.7  2  J
21      439  5.5  62  J   5.6  12 330   4.6  -2.6   1.1  2  J
22      462  6.5  62  J   5.4  24 294   1.8  -4.1   1.9  2  J
23      451  6.8  61  J   5.0  23 294   1.7  -3.9   1.7  2  J
24      459  6.7  66  J   4.1  12 329   3.0  -1.8   0.7  2  J

                          NOV. 29, 1977                     333

 1      382  6.5  31  J   3.9 -12  81   0.6   3.6  -0.7  1  J
 2      377  6.4  32  J   3.6 -13  71   1.1   3.2  -0.8  1  J
 3      387  6.6  37  J   3.9   2  66   1.4   3.2  -0.1  2  J
 4      380  7.2  54  L
 5      374  6.2  55  L
 6      365  7.4  58  L
 7      369  7.6  35  J   3.1 -17   3   2.1  -0.1  -0.6  2  J
 8      371  7.8  50  L
 9      372  8.6  30  J   2.7 -61 301   0.5  -1.5  -1.5  2  J
10      365  9.2  43  J   3.0 -35 344   2.1  -1.1  -1.2  1  J
11      360 10.2  43  J   3.4 -22 319   1.8  -1.8  -0.3  2  J
12      351  9.6  62  J   3.2 -12 334   2.6  -1.4  -0.1  1  J
13      353  9.7  63  J   3.3 -20 345   2.9  -1.1  -0.8  1  J
14      354  9.4  56  J   3.6 -35 331   2.2  -1.7  -1.3  2  J
15      357  8.6  33  J   4.0 -35 314   2.1  -2.7  -1.5  2  J
16      358  8.9  29  J   3.8 -13 309   2.1  -2.8  -0.2  2  J
17      348 10.3  42  J   4.2   0 314   2.8  -2.8   0.5  1  J
18      356  9.7  32  J   4.1 -35 289   0.9  -2.9  -1.7  2  J
19      363 10.0  37  J   3.8 -47 221  -1.8  -1.7  -2.4  2  J
20      359  9.8  37  J   3.9 -44 302   1.4  -2.3  -2.5  1  J
21      355 10.0  31  J   5.0 -37 253  -1.1  -3.7  -3.0  1  J
22      350 10.2  35  J   5.6 -29 278   0.7  -4.7  -2.9  1  J
23      344 11.4  45  J   6.0 -21 300   2.6  -4.4  -2.2  2  J
24      340 13.6  68  J   8.0   9 338   7.1  -2.9   1.1  2  J
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VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
        1000  SC  MAGN LAT LON                      SC

                  NOV. 24, 1977                     328

283 18.0  15  J   2.9  17 316   1.8  -1.7   0.8  1  J
284 18.4  15  J   2.7  43 300   0.8  -1.3   1.6  1  J
284 15.2  22  J   2.8   7  14   2.5   0.7   0.3  1  J
284 13.0  22  J   3.4  13 342   3.0  -0.8   0.9  1  J
285 13.0  21  J   4.1  16 348   3.7  -0.5   1.2  1  J
283 13.4  22  J   4.1   1 357   4.0  -0.2   0.1  1  J
286 12.0  21  J   4.1  -3 332   3.5  -1.8   0.4  1  J
287 13.8  20  J   4.1 -23 317   2.7  -2.9  -0.6  1  J
287 13.1  24  J   4.3 -31 349   3.4  -1.4  -1.7  1  J
285 13.0  22  J   4.0 -44   4   2.8  -0.9  -2.6  1  J
292 16.3  15  J   3.5  19 301   1.5  -1.8   1.9  2  J
295 15.8  12  J   3.5  37 285   0.6  -1.5   2.7  2  J
293 13.3  13  J   4.5 -11 275   0.4  -4.4   0.8  1  J
294 13.7  14  J   4.5  -1 284   1.1  -4.0   1.4  1  J
292 14.5  15  J   4.3   0 278   0.6  -3.9   1.2  1  J
295 12.1  16  J   4.9 -14 260  -0.8  -4.4  -0.0  2  J
298 10.4  15  J   5.2  -3 272   0.1  -2.8   0.4  4  J
295  8.9  16  J   5.1  44 357   3.7   0.3   3.5  0  J
292  8.8  18  J   4.8  41 350   3.5  -0.3   3.1  1  J
283  8.2  20  J   4.8  36 342   3.6  -1.0   2.8  0  J
287  8.4  24  J   4.7  32 342   3.7  -1.2   2.5  1  J
291  8.2  22  J   4.4  34 341   3.3  -1.1   2.3  1  J
296  9.9  17  J   3.8  34 279   0.4  -2.6   1.7  2  J
295 10.3  20  J   3.4  31 348   2.6  -0.6   1.6  1  J

                  NOV. 26, 1977                     330

347 16.7  32  J  17.6   1  70   6.0  16.5   0.3  1  J
336 14.9  21  J  17.8  15  77   3.8  16.7   4.0  3  J
331 16.0  25  J  17.3  23  83   1.9  16.3   5.5  1  J
329 18.1  32  J  16.0  31  86   1.0  14.6   6.3  2  J
319 24.9  47  A  14.4  29  88   0.4  13.2   4.3  4  J
309 18.9  55  A  14.5  35  99  -1.8  13.3   5.0  2  J
305 17.5  50  A  13.6  32  92  -0.4  13.2   3.4  1  J
303 17.9  43  A  12.7  29  93  -0.6  12.4   1.9  1  J
303 14.4  56  A  12.3  24  98  -1.6  12.1   0.5  1  J
295 14.7  49  A  11.3  16 128  -5.7   7.8  -0.4  6  J
295  9.0  44  J  10.4   4  96  -1.1   9.8  -3.4  1  J
331  9.0  47  J  10.2   5  89   0.2   9.6  -3.0  1  J
333 19.2  49  J   5.9   7  89   0.1   5.0  -1.2  4  J
332 21.7  39  J   4.7  54  76   0.5   2.6   1.9  4  J
307 18.0  41  J   5.6  21  82   0.6   4.9   0.4  3  J
335  7.0  31  J   8.7   7  88   0.3   8.5  -1.0  1  J
289 14.0  31  A
340 23.5  81  A
361 24.4  99  A  16.9  56  52   5.8   8.5  13.3  2  J
371 28.2  71  A  16.8  51  74   2.8  10.4  12.4  3  J
383 32.2  45  J  18.9  45  80   2.3  13.2  13.3  2  J
381 32.4  48  J
383 48.3  65  J  14.7  40  93  -0.5  10.0   8.9  6  J
386 48.9  59  J  13.0 -61 101  -0.9   4.8  -8.4  9  J

                  NOV. 28, 1977                     332

462  7.8  71  J   4.3  21 306   2.0  -2.7   1.2  2  J
458  9.1  72  J   5.3  30 352   4.3  -0.6   2.5  2  J
459  9.2  67  J   5.2   9 314   3.3  -3.4   1.0  2  J
462  9.0  54  J   5.6  -8 296   2.4  -5.0  -0.2  1  J
397  0.0   0  H
403  0.0   0  H
428  9.0  90  J   4.8  -8 326   3.9  -2.7   0.1  0  J
428  8.8  81  J   4.9 -14 314   3.2  -3.5   0.0  1  J
429  8.9 147  J   5.1  -5 320   3.4  -2.8   0.7  2  J
419  8.3  80  J   5.6   7 328   4.2  -2.2   1.6  2  J
419  8.5  80  J   5.9 -13 320   3.4  -3.1   0.1  4  J
401  0.0   0  H
401 11.3  87  J   6.1  13 330   5.0  -2.2   2.2  1  J
404 10.3  64  J   5.9  21 322   3.9  -2.3   2.8  2  J
407  8.0  42  J   6.0  13 341   5.4  -1.4   1.8  1  J
401  8.7  49  J   5.9  12 338   5.3  -1.8   1.6  1  J
401  8.7  55  J   5.9  33 313   3.3  -3.0   3.7  1  J
405  8.0  44  J   5.9  24 322   4.2  -3.0   2.8  1  J
399  8.4  50  J   5.7  30 329   4.1  -2.3   2.9  1  J
383  7.9  51  J   5.6  21 360   5.0   0.0   1.9  1  J
383  8.6  52  J   5.5  24   7   4.5   0.5   2.0  2  J
388  8.7  49  J   4.5 -15  62   1.9   3.6  -1.0  2  J
383  8.5  47  J   4.3  -3  62   1.8   3.4  -0.1  2  J
390  6.9  34  J   4.3 -14  88   0.1   4.1  -0.9  1  J

                  NOV. 30, 1977                     334

337 13.4  40  J   8.3  -2 336   7.4  -3.3  -0.4  2  J
372 20.8  61  J   8.0  -4 278   0.8  -5.5  -0.4  6  J
378 26.4  71  J   7.9   8 301   3.0  -5.0   1.1  5  J
384 29.2  69  J   9.1  27 309   4.8  -5.5   4.4  4  J
390 42.7  52  J   7.9  12 279   0.9  -5.6   2.2  5  J
396 37.6  53  J   8.5   8 271   0.1  -5.0   1.9  7  J
388 30.9  55  J  10.3 -33 258  -1.4  -7.8  -2.5  6  J
373 16.7  64  J  12.1  61 295   2.4  -1.6  11.5  3  J
370 14.1  55  J  12.5  71 340   3.8   2.8  11.6  1  J
381 21.1  59  J   8.0   7 274   0.5  -6.4   3.5  4  J
376 22.9  33  J   7.9 -29 263  -0.8  -7.6  -1.0  2  J
372 14.7  21  J   8.5 -24 269  -0.1  -8.4  -0.5  0  J
370 18.3  17  J   6.4 -22 288   1.8  -5.9  -0.4  2  J
368 12.5  30  L
380 11.9  29  J   5.0 -32 331   3.6  -2.6  -2.0  1  J
371 13.0  18  J   4.2 -37 305   1.9  -3.1  -1.9  1  J
379 10.0  23  J   4.1 -35 287   1.0  -3.5  -1.8  1  J
377 10.3  22  J   3.7 -28 262  -0.4  -3.3  -1.4  1  J
383 10.8  20  J   3.2  12 310   1.9  -2.2   0.7  1  J
382  9.9  23  J   3.5 -19 311   2.1  -2.4  -1.1  1  J
380  9.0  23  J   2.8 -19 313   1.7  -1.8  -0.9  1  J
380  8.6  25  J   2.5   7 313   1.5  -1.6   0.2  1  J
385  7.4  22  J   2.7  51 349   1.4  -0.4   1.8  1  J
390  6.8  26  J   2.4   6 267  -0.0  -0.9   0.0  2  J
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DEC. 1, 1977 335

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 8.0 | 38 | J | 2.1 | 4 | 9 | 0.9 | 0.1 | 0.1 | 2 | J |
| 2 | 390 | 7.9 | 33 | J | 1.4 | -38 | 255 | -0.1 | -0.5 | -0.4 | 1 | J |
| 3 | 386 | 6.7 | 28 | J | 3.0 | 36 | 238 | -1.1 | -1.7 | 1.5 | 2 | J |
| 4 | 379 | 5.9 | 22 | J | 3.6 | 31 | 220 | -1.9 | -1.4 | 1.6 | 2 | J |
| 5 | 374 | 7.2 | 27 | J | 3.4 | 33 | 226 | -1.5 | -1.3 | 1.6 | 2 | J |
| 6 | 369 | 6.4 | 27 | J |  |  |  |  |  |  |  |  |
| 7 | 361 | 6.7 | 22 | J |  |  |  |  |  |  |  |  |
| 8 | 367 | 6.5 | 18 | J |  |  |  |  |  |  |  |  |
| 9 | 368 | 5.4 | 25 | L |  |  |  |  |  |  |  |  |
| 10 | 370 | 5.5 | 27 | L |  |  |  |  |  |  |  |  |
| 11 | 361 | 5.9 | 29 | L |  |  |  |  |  |  |  |  |
| 12 | 363 | 6.3 | 26 | L |  |  |  |  |  |  |  |  |
| 13 | 367 | 6.2 | 23 | L |  |  |  |  |  |  |  |  |
| 14 | 369 | 6.6 | 22 | L |  |  |  |  |  |  |  |  |
| 15 | 363 | 6.1 | 22 | L |  |  |  |  |  |  |  |  |
| 16 | 367 | 6.1 | 21 | L |  |  |  |  |  |  |  |  |
| 17 | 368 | 6.6 | 22 | L |  |  |  |  |  |  |  |  |
| 18 | 372 | 7.6 | 21 | L |  |  |  |  |  |  |  |  |
| 19 | 374 | 7.8 | 23 | L |  |  |  |  |  |  |  |  |
| 20 | 376 | 7.7 | 23 | L |  |  |  |  |  |  |  |  |
| 21 | 374 | 8.3 | 18 | L |  |  |  |  |  |  |  |  |
| 22 | 374 | 12.3 | 20 | L |  |  |  |  |  |  |  |  |
| 23 | 367 | 14.9 | 25 | A |  |  |  |  |  |  |  |  |
| 24 | 375 | 15.2 | 22 | L |  |  |  |  |  |  |  |  |

DEC. 2, 1977 336

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 374 | 13.1 | 27 | L |  |  |  |  |  |  |  |  |
| 2 | 376 | 16.3 | 32 | L |  |  |  |  |  |  |  |  |
| 3 | 402 | 23.3 | 71 | L |  |  |  |  |  |  |  |  |
| 4 | 401 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 5 | 402 | 42.7 | 43 | L |  |  |  |  |  |  |  |  |
| 6 | 404 | 38.4 | 55 | L |  |  |  |  |  |  |  |  |
| 7 | 414 | 70.6 | 86 | L |  |  |  |  |  |  |  |  |
| 8 | 417 | 59.0 | 76 | L |  |  |  |  |  |  |  |  |
| 9 | 395 | 69.9 | 73 | L |  |  |  |  |  |  |  |  |
| 10 | 384 | 87.8 | 84 | L |  |  |  |  |  |  |  |  |
| 11 | 388 | 76.8 | 108 | L |  |  |  |  |  |  |  |  |
| 12 | 393 | 24.6 | 129 | L |  |  |  |  |  |  |  |  |
| 13 | 383 | 29.3 | 141 | L |  |  |  |  |  |  |  |  |
| 14 | 378 | 23.9 | 132 | L |  |  |  |  |  |  |  |  |
| 15 | 390 | 34.8 | 123 | L |  |  |  |  |  |  |  |  |
| 16 | 397 | 18.3 | 121 | L |  |  |  |  |  |  |  |  |
| 17 | 414 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 18 | 414 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 19 | 424 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 20 | 424 | 29.4 | 66 | A |  |  |  |  |  |  |  |  |
| 21 | 443 | 14.5 | 47 | A |  |  |  |  |  |  |  |  |
| 22 | 472 | 13.9 | 30 | A |  |  |  |  |  |  |  |  |
| 23 | 472 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 24 | 474 | 16.5 | 16 | L |  |  |  |  |  |  |  |  |

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DEC. 3, 1977 337

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 441 | 5.7 | 131 | A |  |  |  |  |  |  |  |  |
| 2 | 462 | 4.9 | 26 | A |  |  |  |  |  |  |  |  |
| 3 | 468 | 6.0 | 19 | A |  |  |  |  |  |  |  |  |
| 4 | 458 | 6.4 | 26 | A |  |  |  |  |  |  |  |  |
| 5 | 445 | 6.2 | 24 | A |  |  |  |  |  |  |  |  |
| 6 | 420 | 3.1 | 17 | A |  |  |  |  |  |  |  |  |
| 7 | 422 | 6.7 | 18 | A |  |  |  |  |  |  |  |  |
| 8 | 422 | 7.3 | 16 | A |  |  |  |  |  |  |  |  |
| 9 | 425 | 7.7 | 9 | L |  |  |  |  |  |  |  |  |
| 10 | 418 | 5.4 | 19 | A |  |  |  |  |  |  |  |  |
| 11 | 415 | 6.1 | 15 | A |  |  |  |  |  |  |  |  |
| 12 | 414 | 8.6 | 13 | A |  |  |  |  |  |  |  |  |
| 13 | 412 | 10.7 | 13 | A |  |  |  |  |  |  |  |  |
| 14 | 410 | 8.4 | 16 | A |  |  |  |  |  |  |  |  |
| 15 | 403 | 9.1 | 18 | L |  |  |  |  |  |  |  |  |
| 16 | 402 | 6.8 | 16 | L |  |  |  |  |  |  |  |  |
| 17 | 401 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 18 | 398 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 19 | 393 | 8.9 | 12 | L |  |  |  |  |  |  |  |  |
| 20 | 391 | 10.0 | 12 | L |  |  |  |  |  |  |  |  |
| 21 | 392 | 10.1 | 13 | L |  |  |  |  |  |  |  |  |
| 22 | 387 | 7.3 | 12 | L |  |  |  |  |  |  |  |  |
| 23 | 379 | 8.0 | 13 | L |  |  |  |  |  |  |  |  |
| 24 | 375 | 8.3 | 12 | L |  |  |  |  |  |  |  |  |

DEC. 4, 1977 338

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 7.6 | 12 | L |  |  |  |  |  |  |  |  |
| 2 | 378 | 6.3 | 11 | L |  |  |  |  |  |  |  |  |
| 3 | 381 | 6.6 | 15 | L |  |  |  |  |  |  |  |  |
| 4 | 382 | 7.1 | 14 | L |  |  |  |  |  |  |  |  |
| 5 | 381 | 6.8 | 17 | L |  |  |  |  |  |  |  |  |
| 6 | 380 | 7.7 | 16 | L |  |  |  |  |  |  |  |  |
| 7 | 379 | 6.8 | 17 | L |  |  |  |  |  |  |  |  |
| 8 | 376 | 7.5 | 21 | L |  |  |  |  |  |  |  |  |
| 9 | 374 | 5.2 | 34 | L |  |  |  |  |  |  |  |  |
| 10 | 364 | 5.0 | 24 | L |  |  |  |  |  |  |  |  |
| 11 | 364 | 5.1 | 22 | L |  |  |  |  |  |  |  |  |
| 12 | 365 | 5.8 | 20 | L |  |  |  |  |  |  |  |  |
| 13 | 367 | 6.3 | 25 | L |  |  |  |  |  |  |  |  |
| 14 | 368 | 5.0 | 26 | L |  |  |  |  |  |  |  |  |
| 15 | 365 | 11.4 | 26 | L |  |  |  |  |  |  |  |  |
| 16 | 359 | 26.7 | 13 | L |  |  |  |  |  |  |  |  |
| 17 | 355 | 39.2 | 14 | L |  |  |  |  |  |  |  |  |
| 18 | 354 | 64.0 | 17 | L |  |  |  |  |  |  |  |  |
| 19 | 358 | 98.1 | 24 | L |  |  |  |  |  |  |  |  |
| 20 | 358 | 53.7 | 22 | L |  |  |  |  |  |  |  |  |
| 21 | 366 | 46.2 | 19 | L |  |  |  |  |  |  |  |  |
| 22 | 361 | 45.7 | 28 | L |  |  |  |  |  |  |  |  |
| 23 | 365 | 25.2 | 39 | L |  |  |  |  |  |  |  |  |
| 24 | 367 | 13.7 | 51 | L |  |  |  |  |  |  |  |  |

DEC. 5, 1977 339

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 368 | 10.9 | 44 | L |  |  |  |  |  |  |  |  |
| 2 | 367 | 11.5 | 60 | L |  |  |  |  |  |  |  |  |
| 3 | 371 | 17.0 | 101 | L |  |  |  |  |  |  |  |  |
| 4 | 384 | 13.6 | 115 | L |  |  |  |  |  |  |  |  |
| 5 | 390 | 12.7 | 84 | L |  |  |  |  |  |  |  |  |
| 6 | 407 | 13.8 | 68 | L |  |  |  |  |  |  |  |  |
| 7 | 429 | 24.7 | 54 | L |  |  |  |  |  |  |  |  |
| 8 | 425 | 22.9 | 33 | L |  |  |  |  |  |  |  |  |
| 9 | 422 | 14.6 | 34 | L |  |  |  |  |  |  |  |  |
| 10 | 428 | 12.3 | 29 | L |  |  |  |  |  |  |  |  |
| 11 | 426 | 16.2 | 36 | J | 4.7 | 8 | 148 | -3.6 | 2.3 | -0.2 | 2 | J |
| 12 | 421 | 15.7 | 37 | J | 4.7 | 12 | 145 | -3.4 | 2.6 | 0.1 | 2 | J |
| 13 | 420 | 14.1 | 39 | J | 5.1 | 6 | 145 | -3.7 | 2.6 | -0.3 | 2 | J |
| 14 | 414 | 14.8 | 36 | J | 6.2 | 20 | 142 | -4.0 | 3.5 | 1.0 | 3 | J |
| 15 | 418 | 16.9 | 29 | J | 5.3 | 54 | 154 | -2.6 | 2.1 | 3.6 | 2 | J |
| 16 | 415 | 16.3 | 26 | J | 4.9 | 55 | 166 | -2.7 | 1.3 | 3.8 | 1 | J |
| 17 | 420 | 17.6 | 30 | J | 2.9 | 55 | 247 | -0.6 | -1.2 | 2.5 | 0 | J |
| 18 | 420 | 15.1 | 37 | J | 3.5 | 45 | 218 | -1.9 | -1.3 | 2.5 | 1 | J |
| 19 | 421 | 15.1 | 48 | J | 2.6 | 31 | 195 | -1.9 | -0.5 | 1.2 | 2 | J |
| 20 | 414 | 14.1 | 40 | J | 2.1 | 10 | 210 | -1.4 | -0.8 | 0.3 | 2 | J |
| 21 | 408 | 12.9 | 39 | J | 2.9 | 9 | 235 | -1.3 | -1.9 | 0.3 | 2 | J |
| 22 | 394 | 12.5 | 40 | J | 4.0 | 5 | 293 | 1.1 | -2.5 | 0.0 | 3 | J |
| 23 | 387 | 12.3 | 34 | J | 3.5 | 14 | 207 | -0.4 | -0.2 | 0.1 | 4 | J |
| 24 | 371 | 9.2 | 37 | J | 4.9 | 7 | 322 | 3.5 | -2.8 | 0.3 | 2 | J |

DEC. 6, 1977 340

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 9.3 | 31 | J | 5.4 | -5 | 313 | 3.5 | -3.7 | -0.7 | 2 | J |
| 2 | 375 | 11.0 | 28 | J | 6.0 | -4 | 290 | 1.9 | -5.3 | -0.6 | 2 | J |
| 3 | 398 | 12.3 | 31 | J | 5.3 | 27 | 243 | -1.7 | -3.3 | 1.9 | 3 | J |
| 4 | 392 | 15.8 | 26 | J | 3.5 | 36 | 208 | -2.3 | -1.1 | 1.9 | 2 | J |
| 5 | 390 | 19.2 | 25 | J | 1.9 | 48 | 232 | -0.7 | -0.8 | 1.4 | 1 | J |
| 6 | 387 | 18.5 | 27 | J | 1.9 | 49 | 193 | -1.0 | -0.0 | 1.2 | 1 | J |
| 7 | 390 | 19.2 | 29 | J | 1.7 | -27 | 178 | -0.5 | -0.0 | -0.3 | 2 | J |
| 8 | 390 | 17.8 | 32 | J | 1.9 | -68 | 299 | 0.2 | -0.6 | -0.9 | 2 | J |
| 9 | 390 | 16.4 | 39 | J | 3.4 | -22 | 241 | -0.9 | -1.8 | -0.2 | 3 | J |
| 10 | 359 | 9.1 | 33 | J | 5.6 | -4 | 317 | 3.9 | -3.5 | 0.8 | 2 | J |
| 11 | 362 | 9.1 | 30 | J | 5.8 | 3 | 309 | 3.4 | -3.9 | 1.6 | 2 | J |
| 12 | 357 | 9.3 | 32 | J | 5.9 | 5 | 317 | 4.2 | -3.6 | 1.7 | 1 | J |
| 13 | 355 | 10.1 | 41 | J | 6.5 | 2 | 321 | 5.0 | -3.8 | 1.4 | 1 | J |
| 14 | 357 | 10.4 | 40 | J | 6.3 | 13 | 318 | 4.4 | -3.5 | 2.4 | 2 | J |
| 15 | 358 | 9.7 | 33 | J | 6.2 | 23 | 315 | 3.8 | -3.2 | 3.0 | 2 | J |
| 16 | 351 | 9.4 | 46 | J | 6.4 | 20 | 334 | 4.9 | -2.0 | 2.4 | 3 | J |
| 17 | 350 | 9.1 | 55 | J | 5.7 | 20 | 347 | 5.0 | -0.9 | 2.0 | 2 | J |
| 18 | 344 | 9.8 | 32 | J | 6.0 | 16 | 360 | 5.6 | 0.1 | 1.6 | 1 | J |
| 19 | 357 | 10.3 | 30 | J | 5.5 | 12 | 46 | 3.4 | 3.5 | 1.0 | 2 | J |
| 20 | 346 | 9.2 | 29 | J | 5.8 | 26 | 22 | 4.5 | 1.7 | 2.4 | 2 | J |
| 21 | 338 | 8.8 | 22 | J | 5.5 | -2 | 350 | 5.3 | -0.9 | -0.2 | 1 | J |
| 22 |  |  |  |  | 5.8 | -28 | 349 | 4.4 | -0.6 | -2.5 | 3 | J |
| 23 |  |  |  |  | 5.5 | -15 | 74 | 1.4 | 5.1 | -0.9 | 1 | J |
| 24 | 333 | 10.2 | 17 | J | 5.4 | -13 | 24 | 4.7 | 2.2 | -1.0 | 1 | J |

DEC. 7, 1977 341

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 331 | 9.9 | 16 | J | 5.5 | 2 | 20 | 5.1 | 1.8 | 0.3 | 1 | J |
| 2 | 331 | 9.2 | 18 | J | 5.4 | 12 | 5 | 5.2 | 0.4 | 1.1 | 1 | J |
| 3 | 327 | 7.7 | 19 | J | 5.0 | 7 | 354 | 4.9 | -0.5 | 0.6 | 1 | J |
| 4 | 327 | 8.2 | 21 | J | 5.1 | -1 | 338 | 4.5 | -1.8 | 0.0 | 1 | J |
| 5 | 333 | 9.9 | 20 | J | 5.9 | -12 | 322 | 4.4 | -3.5 | -0.8 | 2 | J |
| 6 | 331 | 9.5 | 22 | J | 6.2 | -7 | 327 | 4.7 | -3.1 | -0.2 | 2 | J |
| 7 | 353 | 7.6 | 46 | J | 7.4 | 44 | 317 | 3.7 | -2.2 | 5.5 | 3 | J |
| 8 | 364 | 7.2 | 47 | J | 6.9 | 32 | 315 | 4.0 | -2.9 | 4.5 | 2 | J |
| 9 | 362 | 8.0 | 37 | J | 6.1 | 26 | 311 | 3.5 | -3.0 | 3.7 | 1 | J |
| 10 | 370 | 9.2 | 33 | J | 5.7 | 33 | 310 | 2.9 | -2.3 | 3.8 | 2 | J |
| 11 | 376 | 9.8 | 31 | J | 5.6 | 51 | 296 | 1.4 | -1.5 | 4.7 | 2 | J |
| 12 | 369 | 8.9 | 38 | J | 5.3 | 24 | 309 | 2.9 | -2.7 | 3.0 | 2 | J |
| 13 | 372 | 9.3 | 41 | J | 5.3 | 31 | 296 | 1.6 | -2.5 | 3.1 | 3 | J |
| 14 | 367 | 9.0 | 37 | J | 5.4 | 21 | 291 | 1.7 | -3.9 | 2.9 | 1 | J |
| 15 | 361 | 9.2 | 44 | J | 5.4 | 25 | 305 | 2.6 | -3.2 | 2.8 | 2 | J |
| 16 | 371 | 9.9 | 36 | J | 4.6 | 43 | 290 | 1.1 | -2.5 | 3.4 | 1 | J |
| 17 | 361 | 9.8 | 46 | J | 4.7 | 8 | 308 | 2.5 | -3.1 | 0.9 | 2 | J |
| 18 | 365 | 9.9 | 47 | J | 4.3 | 12 | 324 | 2.5 | -1.7 | 0.7 | 3 | J |
| 19 | 367 | 9.8 | 48 | J | 4.0 | -3 | 322 | 2.0 | -1.6 | -0.1 | 3 | J |
| 20 | 361 | 10.1 | 58 | A | 3.7 | -26 | 274 | 0.2 | -3.2 | -1.7 | 1 | J |
| 21 | 366 | 10.1 | 41 | J |  |  |  |  |  |  |  |  |
| 22 | 371 | 10.4 | 41 | J | 2.8 | -11 | 315 | 1.7 | -1.7 | -0.6 | 1 | J |
| 23 | 372 | 10.5 | 34 | J | 3.5 | 22 | 284 | 0.7 | -3.0 | 0.9 | 1 | J |
| 24 | 366 | 10.2 | 38 | J | 3.3 | 8 | 308 | 1.7 | -2.2 | 0.2 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 357 | 10.1 | 43 | J | 3.5 | -3 | 320 | 1.8 | -1.5 | -0.3 | 3 | J |
| 2 | 353 | 9.9 | 39 | J | 2.7 | 29 | 239 | -1.0 | -1.7 | 1.0 | 2 | J |
| 3 | 355 | 10.1 | 34 | J | 3.4 | 28 | 174 | -2.8 | 0.3 | 1.5 | 1 | J |
| 4 | 353 | 10.0 | 32 | J | 3.0 | 25 | 198 | -2.5 | -0.8 | 1.3 | 1 | J |
| 5 | 347 | 10.2 | 31 | J | 3.3 | 44 | 210 | -1.7 | -0.8 | 2.0 | 2 | J |
| 6 | 350 | 11.0 | 29 | J | 3.2 | 45 | 174 | -2.3 | 0.6 | 2.2 | 1 | J |
| 7 | 326 | 11.3 | 27 | J | 3.7 | 7 | 316 | 1.5 | -1.4 | 0.6 | 3 | J |
| 8 | 314 | 10.9 | 25 | J | 4.1 | -20 | 320 | 2.7 | -2.6 | -0.6 | 1 | J |
| 9 | 312 | 10.8 | 24 | J | 3.4 | -17 | 329 | 2.5 | -1.7 | -0.4 | 1 | J |
| 10 | 318 | 10.3 | 19 | J | 3.3 | -52 | 354 | 1.8 | -0.9 | -2.2 | 1 | J |
| 11 | 324 | 8.0 | 21 | J | 4.0 | -24 | 348 | 2.4 | -0.8 | -0.9 | 3 | J |
| 12 | 352 | 5.5 | 25 | J | 5.6 | 35 | 271 | 0.1 | -3.3 | 4.3 | 1 | J |
| 13 | 341 | 5.6 | 27 | J | 5.6 | 29 | 298 | 2.2 | -3.2 | 3.6 | 2 | J |
| 14 | 339 | 6.5 | 31 | J | 5.7 | 31 | 316 | 3.4 | -2.5 | 3.5 | 1 | J |
| 15 | 334 | 7.0 | 22 | J | 5.9 | 39 | 312 | 3.0 | -2.5 | 4.3 | 1 | J |
| 16 | 332 | 8.1 | 24 | J | 5.6 | 39 | 328 | 3.6 | -1.7 | 3.8 | 1 | J |
| 17 | 306 | 13.6 | 21 | A | 3.7 | 3 | 60 | 1.8 | 3.1 | -0.1 | 0 | J |
| 18 | 306 | 12.0 | 20 | J | 3.9 | 7 | 46 | 2.6 | 2.7 | 0.3 | 1 | J |
| 19 | 305 | 11.6 | 16 | J | 3.7 | 4 | 50 | 2.2 | 2.6 | 0.2 | 1 | J |
| 20 | 308 | 12.1 | 19 | J | 3.7 | 5 | 66 | 1.5 | 3.3 | 0.5 | 1 | J |
| 21 | 306 | 12.7 | 25 | J | 4.2 | 26 | 50 | 2.3 | 2.6 | 2.0 | 1 | J |
| 22 | 308 | 13.0 | 29 | J | 4.6 | 46 | 24 | 2.9 | 0.9 | 3.4 | 1 | J |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 304 | 10.0 | 15 | J | 5.0 | 33 | 302 | 2.2 | -3.8 | 2.3 | 0 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 304 | 10.0 | 14 | J | 5.0 | 30 | 306 | 2.4 | -3.6 | 2.1 | 1 | J |
| 2 | 300 | 9.6 | 16 | J | 4.8 | 20 | 315 | 3.1 | -3.2 | 1.4 | 1 | J |
| 3 | 302 | 11.2 | 17 | J | 5.2 | 10 | 312 | 3.4 | -3.8 | 0.8 | 1 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | 5.4 | -39 | 24 | 3.5 | 1.3 | -3.3 | 2 | J |
| 6 | | | | | 6.2 | -53 | 343 | 3.4 | -1.8 | -4.5 | 2 | J |
| 7 | 325 | 6.3 | 28 | J | 6.1 | -52 | 17 | 3.2 | 0.0 | -4.4 | 3 | J |
| 8 | 327 | 5.8 | 24 | J | 7.0 | -13 | 321 | 5.3 | -4.6 | -0.4 | 0 | J |
| 9 | | | | | 5.0 | 3 | 305 | 2.9 | -3.8 | 1.4 | 0 | J |
| 10 | 325 | 7.7 | 26 | J | 4.6 | 39 | 305 | 2.0 | -1.8 | 3.5 | 1 | J |
| 11 | 327 | 7.5 | 29 | J | 4.1 | 36 | 288 | 0.9 | -2.1 | 3.0 | 1 | J |
| 12 | 328 | 7.2 | 26 | J | 4.1 | 68 | 277 | 0.2 | -0.3 | 4.0 | 1 | J |
| 13 | 320 | 8.1 | 21 | J | 3.4 | 74 | 187 | -0.9 | 0.8 | 3.1 | 1 | J |
| 14 | 324 | 9.1 | 19 | J | 3.4 | 42 | 174 | -2.4 | 0.8 | 2.1 | 1 | J |
| 15 | 324 | 9.2 | 20 | J | 3.2 | 27 | 168 | -2.8 | 0.9 | 1.3 | 1 | J |
| 16 | 323 | 9.3 | 20 | J | 3.0 | -2 | 145 | -2.3 | 1.6 | -0.3 | 1 | J |
| 17 | 307 | 8.1 | 18 | J | 3.5 | 30 | 316 | 2.0 | -1.8 | 1.8 | 1 | J |
| 18 | 309 | 8.9 | 24 | J | 3.1 | -7 | 307 | 1.6 | -2.2 | -0.2 | 2 | J |
| 19 | 306 | 9.6 | 21 | J | 3.3 | -3 | 320 | 2.4 | -2.0 | -0.2 | 1 | J |
| 20 | 303 | 8.3 | 21 | J | 3.3 | 11 | 338 | 2.7 | -1.1 | 0.5 | 2 | J |
| 21 | 303 | 9.3 | 21 | J | 3.2 | 26 | 343 | 2.3 | -0.8 | 1.1 | 2 | J |
| 22 | 303 | 8.9 | 22 | J | 2.8 | 15 | 330 | 1.9 | -1.2 | 0.5 | 2 | J |
| 23 | 305 | 10.3 | 16 | J | 4.0 | 38 | 276 | 0.3 | -3.2 | 1.9 | 1 | J |
| 24 | 310 | 8.8 | 17 | J | 4.8 | 58 | 245 | -1.0 | -2.7 | 3.6 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 306 | 9.0 | 16 | J | 5.2 | 55 | 298 | 1.3 | -2.8 | 3.7 | 2 | J |
| 2 | 302 | 9.0 | 19 | J | 5.1 | 19 | 315 | 3.2 | -3.3 | 1.3 | 2 | J |
| 3 | 302 | 8.6 | 19 | J | 5.1 | -3 | 318 | 3.7 | -3.3 | -0.4 | 1 | J |
| 4 | 305 | 6.8 | 24 | J | 5.3 | -8 | 330 | 4.4 | -2.5 | -0.6 | 1 | J |
| 5 | | | | | 5.2 | -26 | 336 | 4.1 | -2.0 | -2.0 | 2 | J |
| 6 | 303 | 7.1 | 15 | J | 5.0 | -22 | 330 | 4.0 | -2.6 | -1.5 | 1 | J |
| 7 | 305 | 6.7 | 21 | J | 5.2 | -26 | 333 | 4.0 | -2.4 | -1.7 | 1 | J |
| 8 | 313 | 7.2 | 37 | J | 5.2 | 3 | 326 | 4.1 | -2.6 | 0.9 | 1 | J |
| 9 | 321 | 7.1 | 26 | J | 5.6 | 1 | 324 | 4.4 | -3.0 | 1.0 | 2 | J |
| 10 | 320 | 8.4 | 25 | J | 5.7 | -5 | 321 | 3.9 | -3.1 | 0.5 | 3 | J |
| 11 | 332 | 7.9 | 16 | J | 6.2 | -22 | 307 | 3.5 | -5.1 | -0.8 | 1 | J |
| 12 | 325 | 7.9 | 20 | J | 6.3 | -23 | 321 | 4.5 | -4.2 | -1.3 | 1 | J |
| 13 | 330 | 11.4 | 16 | J | 5.5 | -14 | 328 | 4.5 | -3.1 | -0.5 | 1 | J |
| 14 | 322 | 13.7 | 17 | J | 5.1 | -11 | 329 | 4.2 | -2.7 | -0.3 | 1 | J |
| 15 | 316 | 15.3 | 22 | J | 4.8 | 18 | 317 | 3.3 | -2.7 | 2.0 | 1 | J |
| 16 | 315 | 19.2 | 14 | J | 4.7 | 23 | 318 | 3.1 | -2.6 | 2.2 | 1 | J |
| 17 | 314 | 20.2 | 15 | J | 5.8 | 12 | 321 | 4.3 | -3.4 | 1.5 | 1 | J |
| 18 | 312 | 22.3 | 14 | J | 6.2 | 19 | 318 | 4.3 | -3.8 | 2.1 | 1 | J |
| 19 | 310 | 23.9 | 13 | J | 6.2 | 3 | 314 | 4.3 | -4.5 | 0.3 | 1 | J |
| 20 | 306 | 26.5 | 10 | J | 8.0 | -2 | 315 | 5.7 | -5.6 | -0.6 | 1 | J |
| 21 | 303 | 36.7 | 16 | J | 5.8 | -7 | 310 | 3.6 | -4.2 | -1.1 | 2 | J |
| 22 | 309 | 44.0 | 18 | J | 9.6 | -12 | 312 | 5.9 | -6.3 | -2.6 | 4 | J |
| 23 | 331 | 41.0 | 32 | J | 12.1 | -13 | 141 | -2.3 | 1.9 | -0.4 | 12 | J |
| 24 | 335 | 26.9 | 39 | J | 16.0 | 42 | 137 | -8.4 | 6.4 | 11.3 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 354 | 27.4 | 69 | J | 13.7 | -23 | 133 | -7.2 | 8.2 | -3.6 | 8 | J |
| 2 | 377 | 18.6 | 72 | J | 13.0 | -9 | 137 | -7.2 | 6.8 | -1.0 | 9 | J |
| 3 | 376 | 15.5 | 65 | J | 13.9 | -15 | 142 | -10.2 | 8.1 | -3.2 | 4 | J |
| 4 | 387 | 15.0 | 137 | J | 11.3 | -22 | 148 | -8.4 | 5.2 | -4.1 | 4 | J |
| 5 | 418 | 12.9 | 153 | J | 13.9 | -48 | 141 | -6.9 | 4.8 | -10.3 | 4 | J |
| 6 | 426 | 13.2 | 136 | J | 15.0 | -64 | 147 | -5.2 | 1.6 | -13.1 | 5 | J |
| 7 | 437 | 15.4 | 185 | J | 14.1 | -47 | 136 | -6.2 | 4.1 | -10.3 | 6 | J |
| 8 | 443 | 13.2 | 177 | J | 14.3 | 4 | 130 | -6.5 | 7.7 | -1.2 | 10 | J |
| 9 | 456 | 12.2 | 215 | J | 12.4 | 25 | 131 | -5.5 | 7.1 | 2.0 | 8 | J |
| 10 | 462 | 11.1 | 162 | J | 13.8 | -30 | 132 | -7.8 | 6.4 | -9.0 | 3 | J |
| 11 | 456 | 14.1 | 207 | J | 11.1 | -42 | 127 | -4.8 | 4.0 | -8.7 | 3 | J |
| 12 | 466 | 13.0 | 185 | J | 9.6 | -41 | 115 | -2.5 | 3.7 | -6.5 | 5 | J |
| 13 | 480 | 10.9 | 128 | J | 8.3 | -43 | 63 | 2.7 | 3.7 | -6.7 | 2 | J |
| 14 | 472 | 10.2 | 122 | J | 7.0 | -29 | 82 | 0.8 | 4.9 | -4.5 | 2 | J |
| 15 | 463 | 10.8 | 128 | J | 4.9 | -22 | 93 | -0.2 | 3.1 | -2.0 | 4 | J |
| 16 | 439 | 12.2 | 113 | J | 8.1 | -15 | 129 | -4.7 | 5.5 | -2.7 | 3 | J |
| 17 | 423 | 12.6 | 94 | J | 7.4 | -4 | 118 | -2.8 | 5.2 | -0.8 | 4 | J |
| 18 | 442 | 12.6 | 83 | J | 7.1 | 80 | 308 | 0.6 | -0.6 | 5.7 | 4 | J |
| 19 | 450 | 10.6 | 97 | J | 6.4 | 58 | 224 | -1.0 | -1.0 | 2.3 | 6 | J |
| 20 | 461 | 9.9 | 112 | J | 6.4 | -62 | 137 | -1.5 | 1.7 | -3.9 | 5 | J |
| 21 | 451 | 10.9 | 165 | J | 6.7 | -14 | 216 | -4.1 | -2.8 | -1.6 | 4 | J |
| 22 | 456 | 10.5 | 131 | J | 7.2 | -40 | 213 | -3.5 | -1.8 | -3.8 | 5 | J |
| 23 | 465 | 11.3 | 135 | J | 7.1 | -15 | 194 | -2.8 | -0.6 | -0.9 | 7 | J |
| 24 | 470 | 11.1 | 143 | J | 6.3 | -22 | 111 | -1.5 | 4.1 | -1.1 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 9.8 | 131 | J | 7.3 | -27 | 144 | -3.8 | 3.0 | -2.1 | 5 | J |
| 2 | 476 | 9.2 | 132 | J | 8.8 | -29 | 114 | -2.7 | 6.5 | -3.2 | 4 | J |
| 3 | 481 | 9.8 | 144 | J | 9.2 | -48 | 131 | -3.1 | 3.8 | -5.1 | 6 | J |
| 4 | 485 | 11.7 | 128 | J | 10.3 | -43 | 252 | -2.2 | -6.7 | -6.5 | 4 | J |
| 5 | 469 | 11.3 | 144 | J | 12.2 | -56 | 169 | -6.3 | 0.5 | -9.6 | 4 | J |
| 6 | 464 | 15.0 | 221 | J | 10.7 | 9 | 228 | -6.8 | -7.3 | 2.6 | 3 | J |
| 7 | 468 | 14.3 | 194 | J | 10.8 | 54 | 182 | -4.9 | 1.1 | 6.6 | 7 | J |
| 8 | 480 | 13.6 | 180 | J | 8.3 | 77 | 126 | -0.9 | 2.7 | 6.0 | 5 | J |
| 9 | 485 | 12.7 | 153 | J | 9.2 | 78 | 49 | 1.2 | 3.5 | 7.7 | 4 | J |
| 10 | 478 | 12.2 | 151 | J | 7.9 | 76 | 197 | -1.7 | 1.5 | 7.0 | 3 | J |
| 11 | 472 | 11.6 | 144 | J | 7.7 | 68 | 190 | -2.5 | 1.4 | 6.1 | 4 | J |
| 12 | 490 | 8.7 | 156 | J | 8.2 | -14 | 126 | -4.3 | 5.2 | -3.4 | 3 | J |
| 13 | 486 | 8.9 | 167 | J | 8.3 | 20 | 151 | -5.6 | 3.6 | 1.5 | 5 | J |
| 14 | 485 | 9.1 | 159 | J | 8.4 | 29 | 185 | -6.3 | 0.2 | 3.5 | 4 | J |
| 15 | 493 | 9.0 | 164 | J | 8.4 | 29 | 139 | -4.8 | 4.7 | 2.7 | 4 | J |
| 16 | 491 | 9.1 | 169 | J | 8.1 | 36 | 215 | -4.8 | -2.8 | 4.7 | 3 | J |
| 17 | 477 | 9.3 | 157 | J | 8.7 | 17 | 154 | -6.6 | 3.4 | 2.0 | 4 | J |
| 18 | 491 | 7.7 | 198 | J | 8.2 | 12 | 143 | -5.9 | 4.4 | 1.5 | 3 | J |
| 19 | 497 | 8.2 | 160 | J | 8.3 | -2 | 129 | -5.0 | 6.1 | -0.1 | 2 | J |
| 20 | 505 | 8.9 | 162 | J | 7.4 | -18 | 183 | -3.7 | -0.1 | -1.2 | 6 | J |
| 21 | 498 | 9.3 | 152 | J | 7.7 | 35 | 213 | -4.6 | -3.4 | 3.5 | 4 | J |
| 22 | 490 | 9.3 | 168 | J | 8.3 | -2 | 163 | -5.5 | 1.7 | 0.0 | 6 | J |
| 23 | 436 | 8.1 | 144 | J | 8.6 | -1 | 134 | -5.2 | 5.4 | 0.7 | 4 | J |
| 24 | 497 | 7.0 | 147 | J | 9.1 | 2 | 130 | -4.9 | 5.8 | 1.1 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 506 | 6.0 | 121 | J | 10.4 | 5 | 117 | -4.5 | 8.6 | 2.0 | 3 | J |
| 2 | 509 | 7.6 | 136 | J | 10.4 | 10 | 119 | -4.4 | 7.8 | 2.4 | 5 | J |
| 3 | 514 | 10.5 | 165 | J | 9.2 | 43 | 129 | -3.7 | 4.3 | 5.7 | 5 | J |
| 4 | 528 | 8.4 | 125 | J | 5.5 | -3 | 146 | -3.2 | 2.2 | -0.2 | 4 | J |
| 5 | 546 | 7.3 | 164 | J | 4.5 | 0 | 119 | -1.4 | 2.4 | -0.2 | 4 | J |
| 6 | 520 | 7.7 | 109 | J | 4.8 | 10 | 152 | -3.4 | 1.9 | 0.4 | 3 | J |
| 7 | 534 | 8.1 | 132 | J | 5.0 | 14 | 119 | -1.4 | 2.5 | 0.2 | 4 | J |
| 8 | 518 | 8.1 | 98 | J | 4.9 | 14 | 155 | -2.5 | 1.3 | 0.4 | 4 | J |
| 9 | 535 | 7.6 | 108 | J | 4.5 | 14 | 88 | 0.1 | 2.4 | -0.0 | 4 | J |
| 10 | 548 | 8.4 | 141 | J | 4.9 | 34 | 34 | 2.7 | 2.3 | 1.6 | 3 | J |
| 11 | 543 | 8.3 | 130 | J | 5.0 | 2 | 37 | 3.2 | 2.3 | -0.5 | 3 | J |
| 12 | 524 | 7.9 | 105 | J | 4.8 | 53 | 83 | 0.2 | 2.7 | 2.1 | 3 | J |
| 13 | 502 | 7.1 | 75 | J | 5.5 | 5 | 120 | -2.5 | 4.4 | -0.6 | 2 | J |
| 14 | 490 | 7.5 | 108 | J | 5.6 | 2 | 163 | -3.5 | 1.1 | -0.1 | 4 | J |
| 15 | 505 | 5.8 | 80 | J | 5.6 | -1 | 108 | -1.5 | 4.5 | -0.8 | 3 | J |
| 16 | 522 | 5.5 | 94 | J | 5.5 | -17 | 73 | 1.4 | 4.4 | -2.0 | 2 | J |
| 17 | 511 | 5.0 | 72 | J | 5.4 | -12 | 100 | -0.8 | 4.6 | -1.3 | 2 | J |
| 18 | 507 | 4.7 | 71 | J | 5.6 | -26 | 86 | 0.3 | 4.5 | -2.3 | 2 | J |
| 19 | 503 | 5.0 | 75 | J | 5.3 | -12 | 98 | -0.6 | 4.6 | -0.8 | 2 | J |
| 20 | 504 | 4.8 | 78 | J | 4.8 | -5 | 96 | -0.4 | 4.0 | -0.0 | 3 | J |
| 21 | 509 | 4.9 | 66 | J | 4.5 | 0 | 115 | -1.6 | 3.3 | 0.4 | 2 | J |
| 22 | 501 | 5.5 | 98 | L | | | | | | | | |
| 23 | 493 | 5.3 | 112 | L | | | | | | | | |
| 24 | 499 | 4.0 | 98 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 512 | 4.5 | 90 | L | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 510 | 0.0 | 0 | H | | | | | | | | |
| 4 | 484 | 4.2 | 76 | L | | | | | | | | |
| 5 | 476 | 4.1 | 70 | L | | | | | | | | |
| 6 | 469 | 3.7 | 71 | L | | | | | | | | |
| 7 | 464 | 3.3 | 65 | L | | | | | | | | |
| 8 | 461 | 3.9 | 60 | L | | | | | | | | |
| 9 | 452 | 3.5 | 62 | L | | | | | | | | |
| 10 | 455 | 3.5 | 54 | L | | | | | | | | |
| 11 | 452 | 3.5 | 54 | L | | | | | | | | |
| 12 | 451 | 3.4 | 57 | L | | | | | | | | |
| 13 | 445 | 3.5 | 59 | L | | | | | | | | |
| 14 | 441 | 3.5 | 57 | L | | | | | | | | |
| 15 | 441 | 3.9 | 60 | L | | | | | | | | |
| 16 | 440 | 3.9 | 55 | L | | | | | | | | |
| 17 | 433 | 3.3 | 45 | L | | | | | | | | |
| 18 | 425 | 4.0 | 51 | L | | | | | | | | |
| 19 | 413 | 5.0 | 49 | L | | | | | | | | |
| 20 | 410 | 5.0 | 51 | L | | | | | | | | |
| 21 | 406 | 5.4 | 58 | L | | | | | | | | |
| 22 | 405 | 6.3 | 49 | L | | | | | | | | |
| 23 | 407 | 0.0 | 0 | H | | | | | | | | |
| 24 | 395 | 6.8 | 56 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 6.6 | 52 | L | | | | | | | | |
| 2 | 410 | 6.3 | 54 | L | | | | | | | | |
| 3 | 401 | 5.6 | 55 | L | | | | | | | | |
| 4 | 406 | 4.5 | 52 | L | | | | | | | | |
| 5 | 419 | 4.7 | 71 | L | | | | | | | | |
| 6 | 405 | 4.0 | 63 | L | | | | | | | | |
| 7 | 408 | 4.6 | 68 | L | | | | | | | | |
| 8 | 403 | 5.2 | 51 | L | | | | | | | | |
| 9 | 395 | 4.8 | 58 | L | | | | | | | | |
| 10 | 393 | 4.5 | 49 | L | | | | | | | | |
| 11 | 392 | 4.2 | 51 | L | | | | | | | | |
| 12 | 387 | 4.4 | 52 | L | | | | | | | | |
| 13 | 380 | 4.5 | 48 | L | | | | | | | | |
| 14 | 374 | 4.4 | 49 | L | | | | | | | | |
| 15 | 371 | 4.6 | 53 | L | | | | | | | | |
| 16 | 388 | 0.0 | 0 | H | | | | | | | | |
| 17 | 383 | 0.0 | 0 | H | | | | | | | | |
| 18 | 362 | 4.7 | 48 | L | | | | | | | | |
| 19 | 359 | 5.3 | 52 | L | | | | | | | | |
| 20 | 334 | 5.5 | 58 | A | | | | | | | | |
| 21 | 327 | 6.2 | 47 | A | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 335 | 5.1 | 41 | L | | | | | | | | |
| 11 | 336 | 5.3 | 42 | L | | | | | | | | |
| 12 | 341 | 6.5 | 48 | L | | | | | | | | |
| 13 | 353 | 8.0 | 52 | L | | | | | | | | |
| 14 | 346 | 8.1 | 52 | L | | | | | | | | |
| 15 | 366 | 12.1 | 47 | L | | | | | | | | |
| 16 | 370 | 0.0 | 0 | H | | | | | | | | |
| 17 | 361 | 12.5 | 53 | L | | | | | | | | |
| 18 | 351 | 12.5 | 54 | L | | | | | | | | |
| 19 | 355 | 13.1 | 50 | L | | | | | | | | |
| 20 | 357 | 16.8 | 25 | L | | | | | | | | |
| 21 | 355 | 21.4 | 20 | L | | | | | | | | |
| 22 | 360 | 16.6 | 21 | L | | | | | | | | |
| 23 | 358 | 9.8 | 23 | L | | | | | | | | |
| 24 | 357 | 6.4 | 13 | L | | | | | | | | |

# 12/17/77 – 12/24/77

DEC. 17, 1977 351

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 10.1 | 10 | L | | | | | | | | |
| 2 | 356 | 8.6 | 10 | L | | | | | | | | |
| 3 | 355 | 4.1 | 41 | L | | | | | | | | |
| 4 | 341 | 3.5 | 51 | L | | | | | | | | |
| 5 | 341 | 5.9 | 57 | L | | | | | | | | |
| 6 | 336 | 9.1 | 64 | L | | | | | | | | |
| 7 | 335 | 10.9 | 29 | L | | | | | | | | |
| 8 | 342 | 9.2 | 21 | L | | | | | | | | |
| 9 | 336 | 10.6 | 20 | L | | | | | | | | |
| 10 | 334 | 12.0 | 15 | L | | | | | | | | |
| 11 | 335 | 10.3 | 21 | L | | | | | | | | |
| 12 | 338 | 10.4 | 22 | L | | | | | | | | |
| 13 | 332 | 8.3 | 27 | L | | | | | | | | |
| 14 | 330 | 8.4 | 29 | L | | | | | | | | |
| 15 | 334 | 9.9 | 44 | L | | | | | | | | |
| 16 | 342 | 9.4 | 48 | L | | | | | | | | |
| 17 | 341 | 8.5 | 53 | L | | | | | | | | |
| 18 | 339 | 11.3 | 39 | L | | | | | | | | |
| 19 | 338 | 12.9 | 34 | L | | | | | | | | |
| 20 | 350 | 13.1 | 33 | L | | | | | | | | |
| 21 | 360 | 14.2 | 21 | L | | | | | | | | |
| 22 | 355 | 12.8 | 23 | L | | | | | | | | |
| 23 | 355 | 21.5 | 27 | L | | | | | | | | |
| 24 | 364 | 19.6 | 29 | L | | | | | | | | |

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DEC. 18, 1977 352

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 363 | 15.7 | 30 | L | | | | | | | | |
| 2 | 351 | 13.7 | 50 | L | | | | | | | | |
| 3 | 337 | 11.0 | 51 | L | | | | | | | | |
| 4 | 342 | 10.6 | 44 | L | | | | | | | | |
| 5 | 352 | 12.3 | 55 | L | | | | | | | | |
| 6 | 318 | 7.4 | 44 | L | | | | | | | | |
| 7 | 318 | 6.4 | 52 | L | | | | | | | | |
| 8 | 334 | 9.4 | 44 | L | | | | | | | | |
| 9 | 344 | 8.7 | 45 | L | | | | | | | | |
| 10 | 333 | 8.3 | 45 | L | | | | | | | | |
| 11 | 333 | 10.5 | 35 | L | | | | | | | | |
| 12 | 324 | 9.0 | 31 | L | | | | | | | | |
| 13 | 320 | 15.8 | 20 | A | | | | | | | | |
| 14 | 310 | 11.6 | 25 | L | 4.9 | 35 | 227 | -2.6 | -2.3 | 3.1 | 1 | J |
| 15 | 312 | 13.4 | 29 | L | 4.4 | 36 | 238 | -1.6 | -2.3 | 2.6 | 2 | J |
| 16 | 308 | 11.5 | 31 | L | 5.0 | 37 | 229 | -2.5 | -2.6 | 3.1 | 2 | J |
| 17 | 309 | 11.2 | 27 | L | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 300 | 7.0 | 27 | L | 13.4 | 33 | 192 | -10.9 | -2.8 | 7.1 | 2 | J |
| 20 | 302 | 8.9 | 22 | L | | | | | | | | |
| 21 | 306 | 11.2 | 15 | J | 4.8 | 26 | 227 | -2.7 | -3.2 | 1.5 | 2 | J |
| 22 | 307 | 12.6 | 18 | J | 4.6 | 39 | 220 | -2.7 | -2.7 | 2.4 | 1 | J |
| 23 | 305 | 12.8 | 16 | J | 4.4 | 49 | 204 | -2.6 | -1.8 | 3.0 | 1 | J |
| 24 | 306 | 13.0 | 16 | J | 4.5 | 48 | 205 | -2.7 | -1.9 | 3.0 | 1 | J |

DEC. 19, 1977 353

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305 | 12.6 | 16 | J | 4.9 | 51 | 183 | -2.8 | -0.7 | 3.3 | 2 | J |
| 2 | 302 | 11.0 | 17 | J | 5.2 | 16 | 118 | -2.3 | 4.0 | 2.0 | 1 | J |
| 3 | 297 | 10.1 | 18 | J | 5.2 | 43 | 182 | -3.7 | -0.5 | 3.4 | 1 | J |
| 4 | 296 | 9.1 | 23 | J | 5.0 | 37 | 164 | -3.7 | 0.9 | 2.9 | 1 | J |
| 5 | 304 | 10.8 | 21 | J | 4.8 | 28 | 127 | -2.3 | 3.1 | 2.0 | 2 | J |
| 6 | 294 | 9.4 | 23 | J | 5.1 | 29 | 145 | -2.8 | 2.1 | 1.7 | 3 | J |
| 7 | 290 | 8.1 | 27 | J | 5.0 | 0 | 152 | -3.9 | 2.0 | -0.3 | 2 | J |
| 8 | 300 | 9.2 | 23 | J | 4.9 | -27 | 117 | -1.5 | 2.7 | -2.2 | 3 | J |
| 9 | 296 | 9.9 | 18 | J | 4.7 | 7 | 135 | -3.2 | 3.3 | -0.1 | 1 | J |
| 10 | 304 | 11.7 | 12 | J | 3.4 | 14 | 150 | -2.8 | 1.7 | 0.4 | 1 | J |
| 11 | 302 | 11.0 | 13 | J | 3.4 | 17 | 175 | -3.2 | 0.5 | 0.9 | 0 | J |
| 12 | 301 | 11.0 | 11 | J | 3.3 | 8 | 172 | -3.2 | 0.5 | 0.3 | 0 | J |
| 13 | 301 | 11.2 | 11 | J | 3.6 | 7 | 163 | -3.3 | 1.1 | 0.2 | 0 | J |
| 14 | 300 | 10.3 | 12 | J | 3.5 | 8 | 158 | -3.1 | 1.3 | 0.3 | 0 | J |
| 15 | 298 | 10.8 | 12 | J | 3.7 | 5 | 154 | -3.2 | 1.6 | 0.1 | 1 | J |
| 16 | 300 | 11.6 | 12 | J | 3.1 | 7 | 158 | -2.9 | 1.2 | 0.3 | 0 | J |
| 17 | | | | | | | | | | | | |
| 18 | 315 | 20.9 | 20 | J | 5.1 | 19 | 135 | -3.4 | 3.4 | 1.8 | 1 | J |
| 19 | 312 | 18.8 | 23 | J | 5.8 | 25 | 140 | -4.0 | 3.1 | 2.7 | 1 | J |
| 20 | 306 | 16.1 | 18 | J | 6.8 | 19 | 132 | -4.2 | 4.3 | 2.7 | 2 | J |
| 21 | 305 | 15.5 | 21 | J | 6.7 | 16 | 130 | -4.0 | 4.4 | 2.5 | 2 | J |
| 22 | 306 | 15.6 | 17 | J | 6.6 | 60 | 210 | -1.2 | -1.1 | 2.3 | 6 | J |
| 23 | 288 | 20.5 | 23 | A | | | | | | | | |
| 24 | 307 | 14.3 | 14 | J | 5.9 | -2 | 105 | -1.5 | 5.5 | 0.9 | 1 | J |

DEC. 20, 1977 354

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 302 | 14.5 | 13 | J | 5.3 | 13 | 128 | -3.1 | 3.7 | 1.9 | 1 | J |
| 2 | 302 | 14.9 | 13 | J | 4.8 | 6 | 133 | -3.1 | 3.2 | 1.0 | 2 | J |
| 3 | 297 | 13.7 | 14 | J | 4.8 | 8 | 151 | -4.2 | 2.2 | 0.9 | 1 | J |
| 4 | 300 | 16.4 | 13 | J | 5.0 | 5 | 132 | -3.3 | 3.6 | 0.6 | 1 | J |
| 5 | 304 | 18.8 | 12 | J | 5.5 | 9 | 127 | -3.2 | 4.3 | 0.8 | 1 | J |
| 6 | 295 | 15.4 | 15 | J | 5.8 | 15 | 144 | -4.5 | 3.3 | 1.2 | 1 | J |
| 7 | 289 | 13.5 | 15 | J | 5.8 | 12 | 152 | -5.0 | 2.8 | 0.9 | 1 | J |
| 8 | 287 | 12.6 | 14 | J | 5.7 | 16 | 148 | -4.6 | 3.1 | 1.0 | 1 | J |
| 9 | 285 | 14.1 | 22 | J | 4.8 | 8 | 122 | -1.5 | 2.5 | -0.1 | 4 | J |
| 10 | 301 | 12.2 | 27 | J | 5.4 | -23 | 23 | 3.9 | 1.2 | -2.1 | 3 | J |
| 11 | 306 | 11.6 | 30 | J | 4.8 | -23 | 61 | 1.6 | 2.4 | -2.0 | 3 | J |
| 12 | 308 | 10.9 | 32 | J | 4.5 | -32 | 84 | 0.4 | 3.0 | -3.0 | 1 | J |
| 13 | 303 | 9.2 | 30 | J | 4.7 | -30 | 78 | 0.8 | 3.4 | -3.0 | 1 | J |
| 14 | 297 | 9.7 | 31 | J | 4.4 | -38 | 74 | 1.0 | 2.9 | -3.2 | 1 | J |
| 15 | 296 | 9.7 | 26 | J | 4.2 | -31 | 79 | 0.7 | 3.2 | -2.5 | 1 | J |
| 16 | 301 | 9.2 | 19 | J | 4.5 | -13 | 48 | 2.9 | 3.1 | -1.2 | 1 | J |
| 17 | 300 | 9.4 | 18 | J | 4.7 | -11 | 32 | 3.8 | 2.4 | -0.9 | 1 | J |
| 18 | 303 | 11.3 | 15 | J | 4.1 | -19 | 29 | 3.3 | 1.9 | -1.2 | 1 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 285 | 14.1 | 18 | J | 2.6 | -46 | 164 | -1.5 | 0.7 | -1.5 | 1 | J |

DEC. 21, 1977 355

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 281 | 16.0 | 19 | J | 3.3 | 18 | 199 | -2.9 | -1.2 | 0.8 | 1 | J |
| 2 | 284 | 15.3 | 17 | J | 3.5 | 28 | 208 | -2.7 | -1.7 | 1.4 | 0 | J |
| 3 | 287 | 16.9 | 24 | J | 3.5 | 27 | 189 | -3.0 | -0.7 | 1.5 | 1 | J |
| 4 | 286 | 17.1 | 22 | J | 3.4 | 4 | 163 | -2.8 | 0.8 | 0.3 | 2 | J |
| 5 | 292 | 19.1 | 19 | J | 2.5 | -36 | 81 | 0.3 | 1.8 | -1.3 | 1 | J |
| 6 | 291 | 19.2 | 19 | J | 2.9 | -3 | 60 | 1.4 | 2.4 | -0.3 | 1 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 295 | 15.4 | 23 | J | 6.0 | -29 | 67 | 1.9 | 3.9 | -3.6 | 2 | J |
| 10 | 310 | 13.0 | 27 | J | 6.2 | 11 | 115 | -2.4 | 5.2 | -0.0 | 2 | J |
| 11 | 319 | 12.1 | 41 | J | 5.9 | 13 | 130 | -3.6 | 4.4 | 0.3 | 1 | J |
| 12 | 319 | 12.3 | 40 | J | 6.7 | 11 | 136 | -4.7 | 4.7 | 0.3 | 1 | J |
| 13 | 315 | 12.1 | 41 | J | 7.4 | 18 | 135 | -4.9 | 5.2 | 1.3 | 1 | J |
| 14 | 320 | 12.8 | 34 | J | 7.5 | 1 | 116 | -3.0 | 6.1 | -0.8 | 3 | J |
| 15 | 322 | 13.8 | 27 | J | 8.0 | 6 | 118 | -3.7 | 7.0 | 0.1 | 1 | J |
| 16 | 319 | 16.7 | 26 | J | 6.7 | -28 | 105 | -1.3 | 4.9 | -3.1 | 3 | J |
| 17 | 321 | 20.9 | 15 | J | 6.7 | 6 | 120 | -3.2 | 5.5 | 0.6 | 2 | J |
| 18 | 315 | 26.0 | 17 | J | 5.5 | 23 | 144 | -3.9 | 2.8 | 2.2 | 2 | J |
| 19 | 306 | 24.6 | 11 | J | 6.5 | -7 | 123 | -3.3 | 5.1 | -0.3 | 2 | J |
| 20 | 313 | 24.2 | 17 | J | 6.4 | -13 | 95 | -0.5 | 6.3 | -0.6 | 1 | J |
| 21 | 313 | 21.6 | 12 | J | 8.4 | -37 | 71 | 2.2 | 7.0 | -3.8 | 1 | J |
| 22 | | | | | 9.8 | -40 | 69 | 2.7 | 8.1 | -4.8 | 1 | J |
| 23 | | | | | 10.2 | -40 | 69 | 2.7 | 8.4 | -4.7 | 2 | J |
| 24 | | | | | | | | | | | | |

DEC. 22, 1977 356

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 327 | 10.2 | 47 | J | 8.6 | 36 | 135 | -4.2 | 3.3 | 5.1 | 4 | J |
| 2 | 330 | 10.5 | 78 | J | 6.4 | 43 | 161 | -3.5 | 0.6 | 3.6 | 4 | J |
| 3 | 335 | 11.1 | 91 | J | 5.8 | -12 | 126 | -3.2 | 4.5 | -0.6 | 2 | J |
| 4 | 337 | 10.8 | 89 | J | 6.7 | -52 | 119 | -1.9 | 3.9 | -4.9 | 2 | J |
| 5 | 351 | 8.1 | 70 | J | 7.8 | 0 | 135 | -5.4 | 5.4 | 0.1 | 1 | J |
| 6 | 359 | 7.4 | 63 | J | 7.6 | 15 | 155 | -6.4 | 3.1 | 1.7 | 2 | J |
| 7 | 365 | 7.0 | 58 | J | 7.2 | 21 | 160 | -6.1 | 2.5 | 2.2 | 2 | J |
| 8 | 363 | 6.2 | 54 | J | 6.1 | -6 | 158 | -5.5 | 2.1 | -1.0 | 1 | J |
| 9 | 367 | 6.7 | 62 | J | 6.4 | 28 | 183 | -5.5 | 0.3 | 2.9 | 2 | J |
| 10 | 364 | 6.6 | 66 | J | 6.2 | 27 | 190 | -5.3 | -0.3 | 2.9 | 2 | J |
| 11 | 361 | 5.5 | 99 | J | 5.8 | 6 | 168 | -5.5 | 1.3 | 0.3 | 1 | J |
| 12 | 361 | 5.6 | 92 | J | 4.8 | -12 | 169 | -4.3 | 0.6 | -1.1 | 1 | J |
| 13 | 354 | 6.7 | 124 | J | 4.3 | -11 | 160 | -3.8 | 1.2 | -1.0 | 1 | J |
| 14 | 344 | 6.5 | 84 | J | 4.6 | -6 | 151 | -3.6 | 1.9 | -0.7 | 2 | J |
| 15 | 350 | 7.4 | 73 | J | 5.2 | 12 | 152 | -4.4 | 2.4 | 0.8 | 1 | J |
| 16 | 340 | 6.9 | 58 | J | 5.1 | 1 | 158 | -4.6 | 1.9 | -0.0 | 1 | J |
| 17 | 342 | 7.4 | 39 | J | 5.5 | 8 | 108 | -1.4 | 4.4 | 0.6 | 3 | J |
| 18 | 332 | 6.9 | 38 | J | 5.6 | 6 | 129 | -3.4 | 4.1 | 0.8 | 1 | J |
| 19 | 331 | 7.0 | 35 | J | 5.8 | -4 | 116 | -2.5 | 5.1 | 0.1 | 1 | J |
| 20 | 331 | 7.9 | 29 | J | 5.8 | 14 | 105 | -1.4 | 5.0 | 2.1 | 2 | J |
| 21 | 334 | 9.4 | 26 | J | 5.5 | 5 | 114 | -2.2 | 4.7 | 1.4 | 1 | J |
| 22 | 325 | 16.9 | 22 | J | 3.1 | -50 | 329 | 1.0 | -0.3 | -1.6 | 3 | J |
| 23 | 315 | 18.9 | 18 | J | 4.2 | -13 | 293 | 1.4 | -3.1 | -1.5 | 2 | J |
| 24 | 317 | 21.3 | 18 | J | 3.0 | -32 | 97 | -0.2 | 1.8 | -0.6 | 2 | J |

DEC. 23, 1977 357

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 314 | 22.2 | 20 | J | 2.9 | -16 | 168 | -2.5 | 0.7 | -0.6 | 1 | J |
| 2 | 313 | 23.6 | 18 | J | 2.6 | -19 | 189 | -2.3 | -0.2 | -0.9 | 1 | J |
| 3 | 310 | 23.9 | 18 | J | 2.9 | -13 | 187 | -2.5 | -0.2 | -0.6 | 1 | J |
| 4 | 308 | 24.6 | 15 | J | 2.7 | -3 | 167 | -2.3 | 0.5 | -0.1 | 1 | J |
| 5 | 310 | 27.5 | 15 | J | 2.5 | -2 | 149 | -2.1 | 1.3 | -0.1 | 0 | J |
| 6 | 307 | 27.5 | 14 | J | 2.4 | 11 | 130 | -1.2 | 1.4 | 0.3 | 1 | J |
| 7 | 304 | 29.1 | 13 | J | 1.9 | 24 | 82 | 0.2 | 1.5 | 0.5 | 1 | J |
| 8 | 304 | 28.9 | 14 | J | 2.1 | 29 | 63 | 0.8 | 1.7 | 0.7 | 1 | J |
| 9 | 304 | 29.4 | 15 | J | 2.3 | 9 | 74 | 0.6 | 2.1 | -0.0 | 1 | J |
| 10 | 305 | 18.8 | 28 | J | 4.2 | 41 | 99 | -0.4 | 2.8 | 1.6 | 3 | J |
| 11 | 305 | 15.4 | 26 | J | 6.0 | -23 | 113 | -2.0 | 4.1 | -3.1 | 2 | J |
| 12 | 305 | 16.0 | 21 | J | 6.0 | -54 | 110 | -1.2 | 2.3 | -5.3 | 1 | J |
| 13 | 310 | 12.2 | 55 | J | 6.5 | 38 | 130 | -3.2 | 4.4 | 3.2 | 2 | J |
| 14 | 309 | 12.0 | 43 | J | 6.6 | 15 | 126 | -3.3 | 4.7 | 0.9 | 3 | J |
| 15 | 312 | 13.5 | 57 | J | 6.3 | 22 | 120 | -2.3 | 4.1 | 1.5 | 4 | J |
| 16 | 316 | 15.9 | 28 | J | 6.1 | 82 | 93 | -0.0 | 1.1 | 5.6 | 2 | J |
| 17 | 330 | 14.1 | 41 | J | 6.1 | 69 | 88 | 0.1 | 1.9 | 5.1 | 3 | J |
| 18 | 331 | 15.1 | 36 | J | 6.6 | 61 | 103 | -0.6 | 2.4 | 5.0 | 4 | J |
| 19 | 327 | 15.1 | 43 | J | 6.1 | 26 | 257 | -1.0 | -4.5 | 1.7 | 4 | J |
| 20 | 337 | 15.2 | 51 | J | 5.5 | 34 | 295 | 1.6 | -3.8 | 2.0 | 3 | J |
| 21 | 332 | 13.2 | 27 | J | 6.3 | 0 | 236 | -3.0 | -4.3 | -0.8 | 3 | J |
| 22 | 333 | 12.7 | 32 | J | 6.7 | -30 | 221 | -4.1 | -2.8 | -3.8 | 3 | J |
| 23 | 328 | 10.8 | 48 | J | 3.9 | -32 | 176 | -3.1 | 0.7 | -1.9 | 2 | J |
| 24 | 332 | 9.2 | 42 | J | 5.7 | -15 | 125 | -2.9 | 4.3 | -0.4 | 3 | J |

DEC. 24, 1977 358

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 325 | 10.3 | 45 | J | 5.9 | 26 | 136 | -3.6 | 2.8 | 3.1 | 2 | J |
| 2 | 335 | 8.9 | 42 | J | 7.2 | 30 | 141 | -4.4 | 2.9 | 3.8 | 3 | J |
| 3 | 343 | 8.0 | 63 | J | 7.5 | 44 | 131 | -3.5 | 3.2 | 5.7 | 1 | J |
| 4 | 346 | 7.8 | 51 | J | 7.5 | 4 | 137 | -5.3 | 4.9 | 0.9 | 2 | J |
| 5 | 337 | 11.7 | 29 | J | 6.6 | 8 | 139 | -4.2 | 3.6 | 0.9 | 3 | J |
| 6 | 340 | 14.4 | 28 | J | 7.3 | 74 | 167 | -1.5 | 0.5 | 5.4 | 5 | J |
| 7 | 345 | 18.3 | 31 | J | 7.9 | 66 | 273 | 0.2 | -2.5 | 7.3 | 2 | J |
| 8 | 337 | 13.8 | 19 | J | 8.5 | 40 | 295 | 2.7 | -5.0 | 6.1 | 2 | J |
| 9 | 334 | 15.5 | 22 | J | 7.7 | 14 | 300 | 3.5 | -5.7 | 2.8 | 3 | J |
| 10 | 337 | 18.1 | 19 | J | 7.0 | -52 | 337 | 3.3 | -2.3 | -4.2 | 4 | J |
| 11 | 362 | 18.2 | 23 | J | 5.6 | -53 | 358 | 3.3 | -1.0 | -4.3 | 2 | J |
| 12 | 374 | 20.2 | 25 | J | 3.7 | -42 | 358 | 2.7 | -0.5 | -2.3 | 1 | J |
| 13 | 378 | 19.0 | 35 | J | 2.3 | -25 | 353 | 2.0 | -0.4 | -0.9 | 1 | J |
| 14 | 374 | 18.7 | 35 | J | 2.0 | -13 | 337 | 1.7 | -0.8 | -0.3 | 1 | J |
| 15 | 372 | 17.0 | 29 | J | 1.6 | -37 | 17 | 1.1 | 0.3 | -0.9 | 1 | J |
| 16 | 372 | 16.3 | 30 | J | 2.2 | 1 | 15 | 1.5 | 0.4 | 0.0 | 2 | J |
| 17 | 378 | 15.9 | 23 | J | 3.0 | 37 | 342 | 2.1 | -0.7 | 1.7 | 1 | J |
| 18 | 379 | 15.9 | 22 | J | 3.2 | 26 | 341 | 2.5 | -1.0 | 1.3 | 1 | J |
| 19 | 368 | 15.6 | 26 | J | 3.4 | 29 | 321 | 2.3 | -2.1 | 1.4 | 0 | J |
| 20 | 364 | 14.7 | 21 | J | 3.9 | 32 | 306 | 1.9 | -2.9 | 1.6 | 1 | J |
| 21 | 359 | 15.5 | 24 | J | 3.6 | 27 | 334 | 2.7 | -1.6 | 1.3 | 1 | J |
| 22 | 346 | 18.6 | 25 | J | 2.5 | 30 | 2 | 2.0 | -0.2 | 1.1 | 1 | J |
| 23 | 338 | 22.1 | 20 | J | 3.7 | 29 | 345 | 3.1 | -1.2 | 1.5 | 1 | J |
| 24 | 339 | 23.5 | 16 | J | 3.4 | 32 | 341 | 2.7 | -1.3 | 1.5 | 1 | J |

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### DEC. 25, 1977

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 346 | 15.0 | 18 | J | 4.8 | 4 | 3 | 4.2 | 0.1 | 0.3 | 3 | J |
| 2 | 345 | 17.0 | 20 | J | 4.7 | 7 | 339 | 4.3 | -1.7 | 0.2 | 1 | J |
| 3 | 349 | 14.6 | 18 | J | 5.4 | -4 | 338 | 4.9 | -1.9 | -0.7 | 1 | J |
| 4 | 354 | 12.2 | 15 | J | 5.6 | -13 | 347 | 5.2 | -1.1 | -1.3 | 0 | J |
| 5 | 348 | 14.5 | 16 | J | 5.1 | -10 | 346 | 4.9 | -1.2 | -0.9 | 1 | J |
| 6 | 344 | 16.2 | 20 | J | 5.2 | -18 | 346 | 4.7 | -1.2 | -1.5 | 1 | J |
| 7 | 342 | 18.2 | 21 | J | 5.2 | -26 | 354 | 4.6 | -0.7 | -2.2 | 1 | J |
| 8 | 344 | 18.8 | 19 | J | 5.2 | -27 | 346 | 4.3 | -1.4 | -2.1 | 1 | J |
| 9 | 351 | 15.6 | 18 | J | 5.3 | -16 | 337 | 4.7 | -2.2 | -1.1 | 1 | J |
| 10 | 355 | 17.0 | 20 | J | 4.9 | -14 | 338 | 4.4 | -2.0 | -0.8 | 0 | J |
| 11 | 352 | 20.9 | 17 | J | 4.2 | -2 | 344 | 4.0 | -1.2 | 0.1 | 0 | J |
| 12 | 349 | 19.4 | 19 | L | 5.1 | 15 | 24 | 3.4 | 1.7 | 0.7 | 4 | J |
| 13 | 344 | 21.6 | 23 | J | 5.6 | 8 | 348 | 5.3 | -1.0 | 0.9 | 1 | J |
| 14 | 335 | 20.3 | 12 | J | 7.5 | -3 | 346 | 7.3 | -1.8 | -0.2 | 1 | J |
| 15 | 334 | 19.7 | 12 | J | 7.2 | -9 | 354 | 7.1 | -0.8 | -1.1 | 1 | J |
| 16 | 336 | 27.4 | 12 | J | 6.7 | -13 | 344 | 6.1 | -1.8 | -1.4 | 1 | J |
| 17 | 332 | 29.0 | 12 | J | 5.6 | -19 | 328 | 4.5 | -2.8 | -1.9 | 1 | J |
| 18 | 327 | 27.4 | 16 | J | 5.7 | -28 | 340 | 4.7 | -1.5 | -2.8 | 0 | J |
| 19 | 328 | 33.3 | 20 | J | 5.8 | -32 | 346 | 4.4 | -0.7 | -2.9 | 2 | J |
| 20 | 321 | 36.6 | 18 | J | 5.5 | -34 | 3 | 4.1 | 0.7 | -2.7 | 2 | J |
| 21 | 320 | 36.3 | 19 | J | 4.8 | -16 | 321 | 3.5 | -2.5 | -1.8 | 1 | J |
| 22 | 332 | 32.4 | 21 | J | 5.6 | -33 | 328 | 3.6 | -1.5 | -3.2 | 3 | J |
| 23 | 358 | 18.9 | 50 | J | 7.9 | -3 | 337 | 6.7 | -2.7 | -1.1 | 3 | J |
| 24 | 361 | 17.5 | 60 | J | 8.0 | 4 | 344 | 7.5 | -2.2 | 0.0 | 2 | J |

### DEC. 26, 1977

360

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 17.6 | 64 | J | 8.6 | -2 | 335 | 7.7 | -3.4 | -1.1 | 1 | J |
| 2 | 393 | 16.6 | 74 | J | 8.6 | -37 | 296 | 2.6 | -4.3 | -5.4 | 4 | J |
| 3 | 379 | 17.7 | 85 | J | 9.2 | -26 | 328 | 6.6 | -3.5 | -4.4 | 3 | J |
| 4 | 382 | 17.6 | 92 | J | 10.0 | -5 | 330 | 8.6 | -4.9 | -1.4 | 1 | J |
| 5 | 382 | 16.6 | 77 | J | 9.2 | -10 | 332 | 6.9 | -3.6 | -1.5 | 5 | J |
| 6 | 391 | 17.4 | 118 | J | 8.8 | 26 | 360 | 6.6 | 0.1 | 3.2 | 5 | J |
| 7 | 389 | 17.5 | 122 | L | 10.1 | -6 | 320 | 7.4 | -6.3 | -0.5 | 3 | J |
| 8 | 394 | 17.6 | 113 | L | | | | | | | | |
| 9 | 408 | 19.6 | 117 | L | 12.2 | 24 | 314 | 7.0 | -6.5 | 5.6 | 5 | J |
| 10 | 405 | 22.6 | 132 | L | 9.8 | 11 | 305 | 4.7 | -6.3 | 2.7 | 5 | J |
| 11 | 406 | 16.9 | 105 | L | | | | | | | | |
| 12 | 435 | 14.7 | 161 | L | | | | | | | | |
| 13 | 453 | 13.3 | 246 | L | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 547 | 7.9 | 216 | L | | | | | | | | |
| 17 | 541 | 6.3 | 182 | L | | | | | | | | |
| 18 | 540 | 7.6 | 182 | L | | | | | | | | |
| 19 | 520 | 9.3 | 170 | L | | | | | | | | |
| 20 | 504 | 9.2 | 174 | L | | | | | | | | |
| 21 | 430 | 6.9 | 194 | L | | | | | | | | |
| 22 | 430 | 6.0 | 192 | L | | | | | | | | |
| 23 | 450 | 5.1 | 133 | L | | | | | | | | |
| 24 | 451 | 4.9 | 116 | L | | | | | | | | |

### DEC. 27, 1977

361

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | 431 | 7.6 | 88 | L |
| 2 | 427 | 9.4 | 73 | L |
| 3 | | | | |
| 4 | 382 | 14.8 | 92 | A |
| 5 | 411 | 0.0 | 0 | H |
| 6 | 413 | 14.5 | 69 | L |
| 7 | 410 | 14.6 | 59 | L |
| 8 | 404 | 14.4 | 47 | L |
| 9 | 411 | 14.7 | 44 | L |
| 10 | 417 | 12.5 | 40 | L |
| 11 | 416 | 14.3 | 44 | L |
| 12 | 416 | 13.3 | 64 | L |
| 13 | 413 | 13.3 | 74 | L |
| 14 | 412 | 13.8 | 77 | L |
| 15 | 408 | 10.7 | 73 | L |
| 16 | 408 | 8.1 | 58 | A |
| 17 | 410 | 7.3 | 59 | A |
| 18 | 417 | 5.4 | 55 | L |
| 19 | 427 | 4.0 | 61 | L |
| 20 | 436 | 3.4 | 71 | L |
| 21 | 440 | 3.1 | 88 | L |
| 22 | 435 | 2.7 | 77 | L |
| 23 | 434 | 3.7 | 83 | L |
| 24 | 428 | 3.6 | 86 | L |

### DEC. 28, 1977

362

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | 422 | 3.0 | 89 | L |
| 2 | 431 | 0.0 | 0 | H |
| 3 | 420 | 0.0 | 0 | H |
| 4 | 428 | 0.0 | 0 | H |
| 5 | | | | |
| 6 | 392 | 6.9 | 94 | L |
| 7 | 419 | 0.0 | 0 | H |
| 8 | | | | |
| 9 | | | | |
| 10 | 369 | 0.0 | 0 | H |
| 11 | 356 | 0.0 | 0 | H |
| 12 | 373 | 11.8 | 86 | L |
| 13 | 369 | 0.0 | 0 | H |
| 14 | 360 | 13.7 | 73 | L |
| 15 | 346 | 16.4 | 78 | L |
| 16 | 351 | 16.8 | 63 | L |
| 17 | 351 | 19.6 | 51 | L |
| 18 | 358 | 30.6 | 34 | L |
| 19 | 343 | 27.7 | 25 | L |
| 20 | 359 | 23.9 | 28 | L |
| 21 | 350 | 27.1 | 26 | L |
| 22 | 333 | 30.6 | 26 | L |
| 23 | 331 | 28.3 | 20 | L |
| 24 | 334 | 31.0 | 20 | L |

### DEC. 29, 1977

363

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | 335 | 23.9 | 29 | L |
| 2 | 332 | 23.5 | 31 | L |
| 3 | 334 | 28.8 | 29 | L |
| 4 | 335 | 25.0 | 25 | L |
| 5 | 332 | 26.5 | 23 | L |
| 6 | 327 | 25.3 | 24 | L |
| 7 | 327 | 32.8 | 25 | L |
| 8 | 324 | 34.3 | 27 | L |
| 9 | 336 | 42.7 | 33 | L |
| 10 | 345 | 43.8 | 49 | L |
| 11 | 348 | 44.3 | 47 | L |
| 12 | 341 | 34.5 | 48 | A |
| 13 | 355 | 16.4 | 74 | L |
| 14 | 360 | 17.7 | 90 | L |
| 15 | 383 | 15.8 | 73 | L |
| 16 | 382 | 13.6 | 58 | L |
| 17 | 381 | 12.8 | 63 | L |
| 18 | 393 | 13.1 | 79 | L |
| 19 | 397 | 10.6 | 78 | L |
| 20 | 400 | 9.8 | 76 | L |
| 21 | 408 | 10.4 | 76 | L |
| 22 | 415 | 10.7 | 78 | L |
| 23 | 411 | 9.6 | 62 | L |
| 24 | 408 | 8.7 | 62 | L |

### DEC. 30, 1977

364

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | 408 | 10.5 | 68 | L |
| 2 | 401 | 8.8 | 62 | L |
| 3 | 401 | 8.7 | 67 | L |
| 4 | 400 | 8.0 | 65 | L |
| 5 | 397 | 8.9 | 65 | L |
| 6 | 400 | 9.6 | 64 | L |
| 7 | 403 | 9.1 | 72 | L |
| 8 | 401 | 8.7 | 59 | L |
| 9 | 395 | 7.7 | 49 | L |
| 10 | 404 | 7.0 | 48 | L |
| 11 | 401 | 6.6 | 46 | L |
| 12 | 392 | 8.4 | 55 | L |
| 13 | 389 | 7.3 | 45 | L |
| 14 | 409 | 5.2 | 64 | L |
| 15 | 415 | 6.6 | 74 | L |
| 16 | 420 | 6.6 | 74 | L |
| 17 | 418 | 6.6 | 73 | L |
| 18 | 421 | 7.1 | 79 | L |
| 19 | 416 | 6.9 | 65 | L |
| 20 | 409 | 5.6 | 60 | L |
| 21 | 412 | 6.9 | 55 | L |
| 22 | 406 | 7.6 | 58 | L |
| 23 | 406 | 7.7 | 60 | L |
| 24 | 407 | 8.0 | 61 | L |

### DEC. 31, 1977

365

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 408 | 7.7 | 60 | L | | | | | | | | |
| 2 | 408 | 7.3 | 52 | L | | | | | | | | |
| 3 | 411 | 5.7 | 51 | L | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 408 | 9.5 | 55 | L | | | | | | | | |
| 6 | 398 | 9.6 | 56 | L | | | | | | | | |
| 7 | 398 | 8.9 | 57 | J | 6.1 | 15 | 351 | 5.5 | -0.8 | 1.5 | 2 | J |
| 8 | 393 | 9.4 | 61 | J | 6.3 | 21 | 11 | 5.6 | 1.3 | 2.1 | 2 | J |
| 9 | 398 | 9.5 | 65 | J | 5.3 | 4 | 26 | 4.5 | 2.2 | 0.1 | 2 | J |
| 10 | 400 | 10.0 | 83 | J | 4.7 | 4 | 9 | 4.5 | 0.8 | 0.2 | 1 | J |
| 11 | 396 | 10.5 | 70 | J | 4.7 | 3 | 341 | 4.2 | -1.4 | 0.4 | 1 | J |
| 12 | 394 | 8.8 | 59 | J | 4.1 | 15 | 345 | 3.4 | -0.8 | 1.0 | 2 | J |
| 13 | 389 | 10.0 | 45 | J | 4.6 | -40 | 262 | -0.4 | -2.9 | -1.9 | 3 | J |
| 14 | 383 | 11.6 | 48 | J | 4.4 | -25 | 229 | -2.4 | -2.9 | -1.5 | 2 | J |
| 15 | 388 | 11.6 | 55 | J | 5.8 | -35 | 229 | -2.0 | -2.4 | -2.0 | 5 | J |
| 16 | 395 | 11.0 | 71 | J | 7.0 | 28 | 0 | 6.1 | -0.0 | 3.2 | 1 | J |
| 17 | 381 | 11.3 | 66 | J | 6.3 | 29 | 334 | 4.7 | -2.5 | 2.8 | 2 | J |
| 18 | 389 | 11.7 | 68 | J | 5.7 | 33 | 1 | 4.5 | -0.3 | 2.9 | 2 | J |
| 19 | 383 | 11.9 | 61 | J | 4.8 | -16 | 286 | 1.0 | -3.4 | -1.7 | 3 | J |
| 20 | 384 | 11.0 | 48 | J | 4.9 | -16 | 260 | -0.7 | -3.5 | -1.9 | 3 | J |
| 21 | 371 | 11.3 | 44 | J | 4.9 | -6 | 302 | 2.1 | -3.1 | -1.2 | 3 | J |
| 22 | 380 | 10.7 | 43 | J | 5.5 | 6 | 290 | 1.5 | -4.2 | -0.7 | 3 | J |
| 23 | | | | | 6.4 | 6 | 277 | 0.8 | -6.1 | -1.2 | 1 | J |
| 24 | 368 | 10.1 | 41 | J | 6.3 | 22 | 325 | 4.5 | -3.6 | 1.2 | 2 | J |

### JAN. 1, 1978

1

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 10.9 | 46 | J | | | | | | | | |
| 2 | 373 | 12.3 | 40 | J | 4.9 | 10 | 347 | 4.3 | -1.2 | 0.5 | 2 | J |
| 3 | 356 | 11.3 | 43 | J | 5.0 | 20 | 332 | 3.7 | -2.3 | 1.1 | 2 | J |
| 4 | 364 | 15.4 | 43 | J | 4.6 | -17 | 285 | 0.9 | -3.0 | -1.5 | 3 | J |
| 5 | 374 | 14.4 | 39 | J | 5.9 | 20 | 339 | 4.5 | -1.9 | 1.6 | 3 | J |
| 6 | 390 | 16.2 | 47 | J | 4.8 | -15 | 244 | -1.5 | -3.1 | -1.0 | 3 | J |
| 7 | 394 | 9.7 | 38 | J | 7.7 | -2 | 277 | 0.8 | -6.3 | -0.1 | 4 | J |
| 8 | 411 | 7.4 | 65 | J | 7.7 | 0 | 288 | 2.3 | -7.0 | 0.5 | 3 | J |
| 9 | 407 | 8.5 | 57 | J | 8.2 | 1 | 296 | 3.5 | -7.0 | 0.9 | 2 | J |
| 10 | 409 | 7.7 | 66 | J | 7.3 | 20 | 317 | 4.8 | -4.1 | 3.0 | 2 | J |
| 11 | 406 | 8.2 | 44 | J | 6.9 | 5 | 309 | 4.3 | -5.1 | 1.3 | 1 | J |
| 12 | 401 | 9.4 | 54 | J | 5.8 | 6 | 306 | 3.3 | -4.4 | 1.1 | 2 | J |
| 13 | 382 | 9.5 | 99 | A | 5.7 | 40 | 307 | 2.4 | -2.8 | 3.6 | 2 | J |
| 14 | | | | | 4.3 | 84 | 161 | -0.3 | 0.4 | 3.5 | 3 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 3.3 | -16 | 276 | 0.3 | -2.4 | -1.3 | 2 | J |
| 21 | 360 | 21.5 | 23 | J | 4.9 | -39 | 226 | -2.5 | -1.8 | -3.5 | 2 | J |
| 22 | | | | | 5.3 | -54 | 228 | -1.8 | -0.9 | -4.1 | 3 | J |
| 23 | 369 | 15.1 | 29 | J | 6.9 | -25 | 296 | 2.4 | -4.0 | -3.9 | 4 | J |
| 24 | 373 | 10.7 | 43 | J | 8.5 | 3 | 305 | 4.7 | -6.5 | -1.6 | 2 | J |

# 01/02/78 – 01/09/78

## JAN. 2, 1978

2

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 17.2 | 106 | J | 5.9 | 40 | 101 | -0.5 | 1.8 | 2.7 | 5 | J |
| 2 | 409 | 16.3 | 74 | J | 6.9 | 78 | 285 | 0.3 | -2.7 | 5.4 | 4 | J |
| 3 | | | | | 7.9 | -62 | 233 | -2.1 | -1.3 | -6.9 | 3 | J |
| 4 | | | | | 8.4 | -14 | 296 | 3.3 | -6.4 | -3.0 | 3 | J |
| 5 | | | | | 8.5 | 2 | 319 | 4.8 | -4.2 | -0.2 | 6 | J |
| 6 | | | | | 7.6 | 16 | 283 | 1.4 | -6.0 | 1.5 | 4 | J |
| 7 | 405 | 12.1 | 73 | J | 7.4 | 59 | 289 | 1.2 | -3.3 | 6.1 | 2 | J |
| 8 | 411 | 11.5 | 82 | J | 7.8 | 81 | 63 | 0.5 | 1.5 | 6.9 | 3 | J |
| 9 | | | | | | | | | | | | |
| 10 | 412 | 11.2 | 107 | J | 4.9 | -36 | 261 | -0.5 | -3.1 | -1.8 | 3 | J |
| 11 | 414 | 10.4 | 117 | J | 4.6 | 31 | 268 | -0.1 | -2.7 | 2.2 | 3 | J |
| 12 | 411 | 9.5 | 112 | J | 5.6 | 24 | 274 | 0.3 | -3.8 | 2.3 | 4 | J |
| 13 | 416 | 8.9 | 104 | J | 6.2 | 83 | 255 | -0.2 | -0.1 | 5.0 | 4 | J |
| 14 | 411 | 7.8 | 78 | J | 6.2 | 72 | 299 | 0.9 | -1.2 | 5.5 | 2 | J |
| 15 | 411 | 6.9 | 65 | J | 6.1 | 78 | 48 | 0.8 | 1.1 | 5.8 | 1 | J |
| 16 | 395 | 6.8 | 59 | J | 5.5 | 57 | 1 | 2.9 | -0.1 | 4.4 | 2 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 400 | 8.4 | 48 | J | 3.8 | 41 | 303 | 1.2 | -2.2 | 1.5 | 2 | J |
| 20 | 389 | 8.2 | 50 | J | 4.1 | -3 | 328 | 3.3 | -2.0 | -0.7 | 1 | J |
| 21 | 381 | 8.3 | 55 | J | 4.1 | 14 | 321 | 2.8 | -2.4 | 0.3 | 2 | J |
| 22 | | | | | 3.7 | 25 | 296 | 0.6 | -1.4 | 0.3 | 3 | J |
| 23 | 394 | 7.6 | 54 | J | 3.6 | 63 | 300 | 0.6 | -1.7 | 1.9 | 2 | J |
| 24 | 392 | 7.6 | 59 | J | 3.8 | 70 | 18 | 1.1 | -0.6 | 3.1 | 2 | J |

## JAN. 3, 1978

3

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 392 | 7.9 | 65 | J | 3.7 | 40 | 315 | 1.6 | -2.1 | 1.4 | 2 | J |
| 2 | 392 | 7.9 | 72 | J | 2.8 | -30 | 333 | 1.9 | -0.6 | -1.5 | 1 | J |
| 3 | 390 | 8.1 | 74 | J | 2.3 | -54 | 28 | 0.5 | 0.4 | -0.7 | 2 | J |
| 4 | 392 | 7.8 | 65 | J | 3.0 | 55 | 351 | 1.4 | -0.6 | 2.0 | 2 | J |
| 5 | 392 | 7.3 | 66 | J | 3.7 | 39 | 17 | 2.2 | 0.5 | 1.9 | 2 | J |
| 6 | 392 | 6.9 | 64 | J | 3.8 | 26 | 309 | 1.9 | -2.4 | 1.3 | 2 | J |
| 7 | 382 | 6.4 | 64 | J | 4.2 | 30 | 358 | 3.4 | -0.1 | 2.0 | 1 | J |
| 8 | 387 | 23.5 | 2408 | J | 3.9 | 31 | 332 | 2.7 | -1.3 | 1.9 | 2 | J |
| 9 | 375 | 6.0 | 39 | J | 4.0 | 10 | 358 | 3.7 | -0.1 | 0.7 | 1 | J |
| 10 | 374 | 6.1 | 28 | J | 4.0 | 5 | 351 | 3.8 | -0.6 | 0.4 | 1 | J |
| 11 | 376 | 6.1 | 32 | J | 4.0 | -4 | 345 | 3.8 | -1.0 | -0.1 | 1 | J |
| 12 | 375 | 6.2 | 31 | J | 3.9 | -6 | 351 | 3.7 | -0.6 | -0.3 | 1 | J |
| 13 | 375 | 7.0 | 32 | J | 4.3 | -8 | 342 | 4.0 | -1.3 | -0.5 | 1 | J |
| 14 | 373 | 7.6 | 28 | J | 5.0 | -15 | 347 | 4.6 | -1.1 | -1.2 | 1 | J |
| 15 | 388 | 7.1 | 36 | J | 5.5 | -38 | 342 | 3.9 | -1.3 | -3.2 | 2 | J |
| 16 | 375 | 7.6 | 32 | J | 5.4 | -13 | 358 | 4.7 | -0.1 | -1.1 | 3 | J |
| 17 | 373 | 8.0 | 32 | J | 5.6 | -14 | 354 | 5.3 | -0.4 | -1.4 | 1 | J |
| 18 | 373 | 8.0 | 32 | J | 5.6 | -9 | 345 | 5.3 | -1.3 | -1.1 | 0 | J |
| 19 | 374 | 10.2 | 40 | J | 6.7 | -9 | 333 | 5.8 | -2.7 | -1.6 | 1 | J |
| 20 | 376 | 11.4 | 35 | J | 6.8 | -4 | 327 | 5.6 | -3.4 | -1.3 | 1 | J |
| 21 | 403 | 13.7 | 48 | J | 11.2 | -34 | 294 | 3.0 | -5.1 | -6.6 | 10 | J |
| 22 | 524 | 30.0 | 273 | J | 15.0 | 4 | 284 | 2.7 | -10.5 | -2.4 | 11 | J |
| 23 | 523 | 27.5 | 208 | J | 14.1 | 40 | 317 | 4.1 | -5.1 | 3.3 | 12 | J |
| 24 | 520 | 18.4 | 375 | J | 12.6 | -4 | 294 | 3.3 | -6.8 | -2.8 | 10 | J |

## JAN. 4, 1978

4

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 528 | 12.9 | 649 | J | 17.9 | -23 | 284 | 3.8 | -12.6 | -10.9 | 5 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 15.4 | -14 | 255 | -3.7 | -13.1 | -6.0 | 4 | J |
| 5 | | | | | | | | | | | | |
| 6 | 719 | 5.4 | 418 | J | 10.9 | -20 | 286 | 2.7 | -9.2 | -4.1 | 3 | J |
| 7 | 738 | 5.6 | 379 | J | 11.7 | -23 | 258 | -2.1 | -9.8 | -4.2 | 4 | J |
| 8 | 756 | 8.0 | 387 | J | 14.0 | -21 | 249 | -4.6 | -12.3 | -4.3 | 3 | J |
| 9 | 699 | 8.6 | 313 | J | 16.7 | -4 | 273 | 0.8 | -15.8 | 0.3 | 5 | J |
| 10 | 672 | 14.4 | 176 | J | 15.8 | -5 | 273 | 0.7 | -14.3 | 0.3 | 7 | J |
| 11 | 673 | 24.0 | 99 | J | 13.6 | -43 | 227 | -6.6 | -8.1 | -8.2 | 3 | J |
| 12 | 639 | 12.8 | 94 | J | 13.5 | -58 | 195 | -6.2 | -2.7 | -10.0 | 6 | J |
| 13 | 628 | 13.2 | 63 | J | 14.8 | -54 | 180 | -8.6 | -1.0 | -11.8 | 2 | J |
| 14 | 621 | 2.3 | 69 | J | 14.9 | -49 | 167 | -9.4 | 1.6 | -11.2 | 2 | J |
| 15 | 638 | 2.7 | 150 | J | 14.5 | -55 | 173 | -8.1 | 0.9 | -11.7 | 2 | J |
| 16 | 649 | 2.7 | 147 | J | 14.5 | -55 | 194 | -8.1 | -1.5 | -12.0 | 1 | J |
| 17 | 628 | 1.1 | 109 | J | 14.6 | -55 | 208 | -7.4 | -2.8 | -12.3 | 1 | J |
| 18 | 662 | 7.4 | 138 | J | 13.2 | -51 | 247 | -2.9 | -5.5 | -10.2 | 6 | J |
| 19 | 639 | 10.2 | 112 | J | 13.4 | -55 | 251 | -2.2 | -4.4 | -10.7 | 6 | J |
| 20 | 581 | 4.9 | 82 | J | 14.3 | -6 | 308 | 8.8 | -10.5 | -4.1 | 1 | J |
| 21 | 571 | 3.8 | 78 | J | 14.3 | -6 | 303 | 7.7 | -11.0 | -4.7 | 0 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

## JAN. 5, 1978

5

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 589 | 3.7 | 59 | J | 14.2 | -11 | 311 | 9.1 | -9.5 | -5.1 | 1 | J |
| 4 | | | | | 14.3 | -20 | 320 | 10.1 | -7.5 | -6.3 | 2 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 501 | 4.4 | 28 | J | 16.0 | 3 | 331 | 13.8 | -7.5 | 1.6 | 2 | J |
| 11 | 500 | 3.4 | 33 | J | 15.9 | 4 | 324 | 12.7 | -9.0 | 2.1 | 3 | J |
| 12 | 502 | 4.1 | 33 | J | 15.8 | 16 | 327 | 12.3 | -7.5 | 4.9 | 4 | J |
| 13 | 489 | 4.4 | 29 | J | 15.5 | 19 | 336 | 12.4 | -5.2 | 5.1 | 6 | J |
| 14 | 471 | 4.3 | 37 | J | 14.9 | 15 | 341 | 13.2 | -4.4 | 3.9 | 3 | J |
| 15 | 474 | 3.9 | 38 | J | 14.5 | 19 | 329 | 11.7 | -7.0 | 4.7 | 2 | J |
| 16 | 464 | 3.6 | 40 | J | 14.2 | 15 | 327 | 11.4 | -7.6 | 3.3 | 1 | J |
| 17 | 570 | 2.9 | 67 | J | 17.4 | 18 | 312 | 10.5 | -12.1 | 3.9 | 6 | J |
| 18 | 506 | 2.9 | 66 | J | 20.6 | 31 | 326 | 14.1 | -10.9 | 8.6 | 5 | J |
| 19 | 543 | 3.9 | 80 | J | 20.4 | 44 | 326 | 11.9 | -10.6 | 11.9 | 4 | J |
| 20 | 573 | 4.7 | 95 | J | 18.8 | 52 | 308 | 5.8 | -10.2 | 9.8 | 11 | J |
| 21 | 650 | 4.1 | 167 | J | 17.4 | 72 | 73 | 1.2 | 0.2 | 13.4 | 11 | J |
| 22 | 631 | 12.6 | 157 | J | 12.9 | 43 | 132 | -2.3 | 1.5 | 3.9 | 12 | J |
| 23 | 608 | 9.7 | 130 | J | 13.5 | 84 | 313 | 0.9 | -4.7 | 11.0 | 6 | J |
| 24 | 513 | 0.0 | 0 | H | 14.2 | 65 | 56 | 3.4 | 0.5 | 13.8 | 1 | J |

## JAN. 6, 1978

6

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 601 | 6.7 | 285 | J | 9.5 | 13 | 285 | 2.0 | -7.6 | -0.6 | 5 | J |
| 2 | 613 | 20.0 | 57 | J | 10.0 | -39 | 177 | -5.3 | 1.5 | -4.0 | 8 | J |
| 3 | 618 | 15.9 | 46 | J | 11.7 | -43 | 213 | -7.0 | -2.5 | -8.6 | 3 | J |
| 4 | 618 | 11.5 | 55 | J | 11.6 | -28 | 225 | -7.1 | -5.9 | -6.6 | 2 | J |
| 5 | 615 | 5.6 | 47 | J | 12.0 | -10 | 240 | -5.8 | -9.7 | -3.4 | 2 | J |
| 6 | 614 | 7.8 | 41 | J | 12.3 | 23 | 245 | -4.7 | -10.4 | 4.0 | 2 | J |
| 7 | 603 | 13.7 | 28 | J | 13.4 | 39 | 246 | -4.1 | -9.4 | 8.1 | 3 | J |
| 8 | 603 | 5.8 | 35 | J | 13.9 | 38 | 246 | -4.4 | -9.6 | 8.8 | 2 | J |
| 9 | 592 | 6.0 | 46 | J | 14.6 | 56 | 242 | -3.8 | -6.3 | 12.4 | 3 | J |
| 10 | 587 | 8.4 | 48 | J | 14.5 | 63 | 254 | -1.8 | -5.1 | 13.3 | 2 | J |
| 11 | 496 | 0.0 | 0 | H | | | | | | | | |
| 12 | 498 | 0.0 | 0 | H | | | | | | | | |
| 13 | 498 | 0.0 | 0 | H | | | | | | | | |
| 14 | 537 | 6.4 | 29 | L | | | | | | | | |
| 15 | 542 | 9.3 | 37 | L | | | | | | | | |
| 16 | 555 | 8.8 | 92 | L | | | | | | | | |
| 17 | 545 | 5.9 | 37 | J | 8.0 | -8 | 74 | 2.0 | 7.2 | -0.3 | 3 | J |
| 18 | 539 | 10.0 | 60 | J | 6.0 | -25 | 107 | -1.3 | 4.5 | -1.4 | 3 | J |
| 19 | 540 | 8.9 | 59 | J | 5.4 | -80 | 29 | 0.6 | 1.2 | -4.0 | 4 | J |
| 20 | 536 | 9.7 | 64 | J | 4.3 | -37 | 70 | 1.1 | 3.6 | -1.6 | 2 | J |
| 21 | 550 | 6.7 | 168 | J | 4.1 | 39 | 163 | -2.5 | 0.1 | 2.3 | 2 | J |
| 22 | 580 | 3.3 | 112 | J | 3.6 | -5 | 212 | -1.3 | -0.7 | -0.4 | 3 | J |
| 23 | 569 | 3.0 | 80 | J | 4.4 | -1 | 240 | -1.8 | -2.9 | -1.1 | 2 | J |
| 24 | 563 | 8.9 | 63 | J | 3.5 | 13 | 207 | -2.8 | -1.6 | 0.2 | 2 | J |

## JAN. 7, 1978

7

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 548 | 8.2 | 62 | J | 3.2 | 64 | 344 | 1.3 | -1.2 | 2.5 | 1 | J |
| 2 | 546 | 10.1 | 61 | J | 2.9 | 73 | 303 | 0.4 | -1.4 | 2.4 | 1 | J |
| 3 | 543 | 10.0 | 64 | J | 3.2 | 64 | 230 | -0.8 | -1.7 | 2.4 | 1 | J |
| 4 | 523 | 11.6 | 53 | J | 3.0 | 47 | 321 | 1.5 | -1.6 | 1.8 | 1 | J |
| 5 | 518 | 5.0 | 73 | J | 5.1 | 31 | 167 | -3.3 | 0.5 | 2.1 | 3 | J |
| 6 | 513 | 3.1 | 69 | J | 5.9 | 8 | 153 | -5.2 | 2.6 | 1.0 | 1 | J |
| 7 | 507 | 3.2 | 51 | J | 5.7 | -3 | 152 | -5.0 | 2.7 | -0.2 | 0 | J |
| 8 | 510 | 2.6 | 73 | L | 5.3 | -9 | 150 | -4.5 | 2.6 | -0.9 | 0 | J |
| 9 | 517 | 3.3 | 80 | L | | | | | | | | |
| 10 | 501 | 1.9 | 43 | J | 5.5 | -8 | 167 | -5.3 | 1.2 | -0.9 | 1 | J |
| 11 | 502 | 1.8 | 39 | J | 5.3 | -12 | 166 | -5.0 | 1.2 | -1.2 | 1 | J |
| 12 | 494 | 1.5 | 46 | J | 5.0 | -8 | 164 | -4.8 | 1.3 | -0.8 | 0 | J |
| 13 | 494 | 1.6 | 54 | J | 4.9 | -6 | 161 | -4.6 | 1.6 | -0.6 | 0 | J |
| 14 | 485 | 1.6 | 65 | J | 4.8 | -8 | 161 | -4.5 | 1.5 | -0.7 | 0 | J |
| 15 | 480 | 2.2 | 66 | L | | | | | | | | |
| 16 | 472 | 5.0 | 94 | J | 6.3 | -21 | 169 | -5.7 | 1.2 | -2.1 | 1 | J |
| 17 | 448 | 10.7 | 28 | J | 5.5 | 16 | 353 | 4.7 | -0.7 | 1.3 | 3 | J |
| 18 | 444 | 10.3 | 21 | J | 6.1 | 4 | 352 | 5.9 | -0.9 | 0.3 | 1 | J |
| 19 | 438 | 10.3 | 28 | J | 5.3 | 10 | 355 | 5.2 | -0.6 | 0.8 | 1 | J |
| 20 | 436 | 11.2 | 41 | J | 4.2 | 6 | 318 | 2.2 | -2.0 | -0.2 | 3 | J |
| 21 | 454 | 8.6 | 35 | J | 5.6 | -12 | 136 | -3.9 | 3.9 | 0.0 | 1 | J |
| 22 | 455 | 10.6 | 28 | J | 5.7 | -19 | 145 | -4.0 | 3.2 | -0.7 | 2 | J |
| 23 | 458 | 15.0 | 29 | J | 4.7 | -68 | 129 | -0.4 | 1.1 | -1.5 | 4 | J |
| 24 | 455 | 17.4 | 24 | J | 5.9 | -47 | 115 | -1.6 | 4.6 | -2.7 | 2 | J |

## JAN. 8, 1978

8

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 454 | 16.6 | 21 | J | 5.3 | -71 | 119 | -0.8 | 2.9 | -4.1 | 1 | J |
| 2 | 447 | 13.2 | 34 | J | 4.9 | -57 | 350 | 2.5 | 0.8 | -3.9 | 2 | J |
| 3 | 449 | 12.9 | 37 | J | 5.4 | -34 | 350 | 4.2 | 0.0 | -3.0 | 2 | J |
| 4 | 434 | 17.6 | 44 | L | | | | | | | | |
| 5 | 440 | 18.5 | 37 | J | 4.9 | 53 | 301 | 1.5 | -3.0 | 3.4 | 1 | J |
| 6 | 437 | 21.7 | 35 | J | 4.5 | 54 | 345 | 2.3 | -0.9 | 3.3 | 2 | J |
| 7 | 433 | 20.9 | 21 | J | 5.4 | 76 | 20 | 1.2 | 0.3 | 5.0 | 2 | J |
| 8 | 433 | 30.8 | 26 | J | 4.6 | 74 | 92 | -0.0 | 1.3 | 4.1 | 2 | J |
| 9 | 428 | 42.0 | 23 | J | 5.5 | 59 | 163 | -2.6 | 1.0 | 4.5 | 2 | J |
| 10 | 430 | 39.3 | 25 | J | 6.9 | 25 | 140 | -4.7 | 4.1 | 2.5 | 2 | J |
| 11 | 419 | 26.9 | 19 | L | | | | | | | | |
| 12 | 429 | 12.8 | 22 | L | | | | | | | | |
| 13 | 434 | 14.7 | 19 | L | | | | | | | | |
| 14 | 496 | 0.0 | 0 | H | | | | | | | | |
| 15 | 533 | 4.6 | 196 | L | | | | | | | | |
| 16 | 552 | 4.9 | 187 | L | | | | | | | | |
| 17 | 529 | 4.9 | 196 | L | | | | | | | | |
| 18 | 529 | 6.4 | 175 | L | | | | | | | | |
| 19 | 527 | 7.7 | 186 | L | | | | | | | | |
| 20 | 510 | 0.0 | 0 | H | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

## JAN. 9, 1978

9

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 439 | 0.0 | 0 | H | | | | | | | | |
| 2 | 480 | 4.6 | 89 | L | | | | | | | | |
| 3 | 482 | 5.1 | 92 | L | | | | | | | | |
| 4 | 477 | 4.3 | 81 | L | | | | | | | | |
| 5 | 479 | 3.9 | 84 | L | | | | | | | | |
| 6 | 483 | 4.3 | 87 | L | | | | | | | | |
| 7 | 441 | 0.0 | 0 | H | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 457 | 0.0 | 0 | H | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 455 | 0.0 | 0 | H | | | | | | | | |
| 15 | 467 | 5.8 | 121 | L | | | | | | | | |
| 16 | 445 | 5.3 | 109 | L | | | | | | | | |
| 17 | 554 | 14.7 | 285 | L | | | | | | | | |
| 18 | 547 | 17.9 | 416 | L | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 527 | 0.0 | 0 | H | | | | | | | | |

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### JAN. 10, 1978

10

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 521 | 11.2 | 183 | L | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 513 | 19.6 | 106 | L | | | | | | | | |
| 6 | 511 | 16.2 | 93 | L | | | | | | | | |
| 7 | 507 | 14.1 | 99 | L | | | | | | | | |
| 8 | 504 | 13.5 | 32 | L | | | | | | | | |
| 9 | 501 | 12.5 | 31 | L | | | | | | | | |
| 10 | 487 | 21.0 | 34 | L | | | | | | | | |
| 11 | 477 | 12.7 | 44 | L | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 470 | 7.3 | 46 | L | | | | | | | | |
| 19 | 467 | 7.3 | 46 | L | | | | | | | | |
| 20 | 471 | 7.7 | 41 | L | | | | | | | | |
| 21 | 469 | 8.6 | 35 | L | | | | | | | | |
| 22 | 464 | 4.6 | 42 | L | | | | | | | | |
| 23 | 454 | 4.4 | 44 | L | | | | | | | | |
| 24 | 457 | 3.5 | 54 | L | | | | | | | | |

### JAN. 12, 1978

12

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 410 | 4.0 | 63 | L | | | | | | | | |
| 2 | 413 | 4.2 | 57 | L | | | | | | | | |
| 3 | 409 | 4.1 | 49 | L | | | | | | | | |
| 4 | 410 | 4.4 | 51 | L | | | | | | | | |
| 5 | 412 | 4.3 | 60 | L | | | | | | | | |
| 6 | 407 | 4.7 | 58 | L | | | | | | | | |
| 7 | 412 | 4.5 | 56 | L | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 411 | 3.8 | 59 | L | | | | | | | | |
| 10 | 402 | 3.7 | 59 | L | | | | | | | | |
| 11 | 385 | 3.5 | 59 | L | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 378 | 3.6 | 52 | L | | | | | | | | |
| 18 | 379 | 3.9 | 54 | L | | | | | | | | |
| 19 | 378 | 5.1 | 43 | L | | | | | | | | |
| 20 | 389 | 5.2 | 41 | L | | | | | | | | |
| 21 | 388 | 6.9 | 31 | L | | | | | | | | |
| 22 | 395 | 7.3 | 37 | L | | | | | | | | |
| 23 | 386 | 7.3 | 58 | L | | | | | | | | |
| 24 | 385 | 6.2 | 58 | L | | | | | | | | |

### JAN. 14, 1978

14

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 338 | 8.4 | 48 | J | 5.9 | -10 | 120 | -2.8 | 4.9 | 0.8 | 2 | J |
| 2 | 326 | 7.9 | 42 | J | 5.9 | -7 | 129 | -3.6 | 4.4 | 0.8 | 1 | J |
| 3 | 333 | 7.4 | 45 | J | 5.8 | 0 | 127 | -3.2 | 4.1 | 1.3 | 2 | J |
| 4 | | | | | 6.0 | 0 | 110 | -1.9 | 5.2 | 1.3 | 2 | J |
| 5 | | | | | 6.1 | 11 | 104 | -1.3 | 4.9 | 2.0 | 3 | J |
| 6 | | | | | 6.0 | -5 | 75 | 1.4 | 5.4 | 0.2 | 2 | J |
| 7 | 340 | 6.6 | 34 | J | 5.8 | -25 | 80 | 0.8 | 5.0 | -1.9 | 2 | J |
| 8 | | | | | 5.6 | -26 | 90 | 0.0 | 5.0 | -2.3 | 1 | J |
| 9 | 326 | 6.2 | 23 | J | 5.0 | -27 | 99 | -0.6 | 4.0 | -2.1 | 2 | J |
| 10 | 334 | 6.7 | 22 | J | 4.8 | -4 | 90 | 0.0 | 4.2 | -0.4 | 2 | J |
| 11 | 327 | 6.6 | 20 | J | 4.5 | -18 | 103 | -0.9 | 3.8 | -1.4 | 2 | J |
| 12 | | | | | 4.1 | -10 | 137 | -2.8 | 2.6 | -0.8 | 1 | J |
| 13 | 310 | 7.1 | 20 | J | 4.1 | -1 | 115 | -1.6 | 3.4 | -0.1 | 2 | J |
| 14 | 306 | 7.2 | 22 | J | 3.8 | -3 | 117 | -1.7 | 3.3 | -0.1 | 1 | J |
| 15 | 305 | 6.8 | 17 | J | 4.7 | -5 | 120 | -2.3 | 4.0 | -0.2 | 1 | J |
| 16 | | | | | 4.9 | -2 | 177 | -3.6 | 0.2 | -0.1 | 3 | J |
| 17 | 303 | 7.2 | 13 | J | 4.9 | -6 | 123 | -2.6 | 4.0 | 0.1 | 1 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

### JAN. 16, 1978

16

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 2.3 | 19 | 41 | 1.4 | 0.9 | 1.0 | 1 | J |
| 3 | | | | | 2.8 | 53 | 35 | 1.3 | 0.2 | 2.3 | 1 | J |
| 4 | 297 | 15.5 | 26 | J | 3.7 | -3 | 98 | -0.5 | 3.6 | 0.8 | 1 | J |
| 5 | 295 | 17.3 | 25 | J | 3.3 | -42 | 45 | 1.6 | 2.0 | -1.6 | 1 | J |
| 6 | 297 | 20.9 | 20 | J | 3.3 | -22 | 10 | 2.9 | 0.7 | -1.1 | 1 | J |
| 7 | 304 | 27.1 | 22 | J | 4.4 | 19 | 340 | 3.7 | -1.5 | 1.2 | 1 | J |
| 8 | 304 | 25.0 | 22 | J | 4.7 | 43 | 335 | 3.0 | -1.5 | 3.1 | 1 | J |
| 9 | 318 | 28.4 | 24 | J | 4.7 | 21 | 130 | -2.4 | 2.9 | 1.4 | 3 | J |
| 10 | | | | | 7.6 | 26 | 136 | -4.7 | 4.6 | 3.1 | 3 | J |
| 11 | | | | | 8.4 | 54 | 139 | -3.4 | 3.1 | 6.2 | 3 | J |
| 12 | 329 | 22.6 | 34 | J | 7.5 | 21 | 125 | -1.1 | 1.5 | 0.7 | 7 | J |
| 13 | 322 | 32.6 | 18 | J | 7.5 | -83 | 260 | -0.2 | -0.9 | -7.4 | 1 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 335 | 27.0 | 12 | J | 10.0 | -62 | 119 | -2.3 | 5.2 | -8.3 | 1 | J |
| 17 | 331 | 22.0 | 13 | J | 10.3 | -61 | 116 | -2.2 | 5.9 | -8.0 | 1 | J |
| 18 | | | | | 10.0 | -44 | 105 | -1.8 | 8.2 | -5.1 | 2 | J |
| 19 | | | | | | | | | | | | |
| 20 | 327 | 21.5 | 26 | J | 9.8 | -31 | 97 | -1.0 | 9.4 | -2.1 | 2 | J |
| 21 | 326 | 22.0 | 26 | J | 9.8 | -5 | 97 | -1.2 | 9.1 | 2.5 | 2 | J |
| 22 | 324 | 23.5 | 30 | J | 9.0 | -37 | 126 | -3.8 | 6.7 | -2.5 | 4 | J |
| 23 | 321 | 18.6 | 23 | J | 9.6 | -49 | 143 | -5.0 | 6.3 | -5.1 | 1 | J |
| 24 | 321 | 17.6 | 22 | J | 10.1 | -39 | 126 | -4.4 | 8.0 | -3.2 | 3 | J |

### JAN. 11, 1978

11

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 462 | 3.7 | 57 | L | | | | | | | | |
| 2 | 469 | 4.3 | 51 | L | | | | | | | | |
| 3 | 479 | 6.5 | 90 | L | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 457 | 6.0 | 85 | L | | | | | | | | |
| 6 | 449 | 5.1 | 85 | L | | | | | | | | |
| 7 | 45[illegible] | 5.6 | 87 | L | | | | | | | | |
| 8 | 44[illegible] | 6.4 | 74 | L | | | | | | | | |
| 9 | 430 | 5.4 | 72 | L | | | | | | | | |
| 10 | 43[illegible] | 5.7 | 78 | L | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 432 | 4.1 | 78 | L | | | | | | | | |
| 16 | 427 | 3.8 | 80 | L | | | | | | | | |
| 17 | 431 | 4.1 | 79 | L | | | | | | | | |
| 18 | 422 | 4.5 | 66 | L | | | | | | | | |
| 19 | 430 | 4.0 | 73 | L | | | | | | | | |
| 20 | 399 | 4.2 | 66 | L | | | | | | | | |
| 21 | 393 | 4.2 | 66 | L | | | | | | | | |
| 22 | 391 | 4.2 | 64 | L | | | | | | | | |
| 23 | 399 | 4.1 | 65 | L | | | | | | | | |
| 24 | 405 | 4.3 | 61 | L | | | | | | | | |

### JAN. 13, 1978

13

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 314 | 6.2 | 78 | L | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 333 | 7.2 | 63 | L | | | | | | | | |
| 4 | 373 | 7.5 | 59 | L | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 353 | 7.2 | 67 | L | | | | | | | | |
| 9 | 367 | 6.8 | 57 | L | | | | | | | | |
| 10 | 372 | 6.4 | 48 | L | | | | | | | | |
| 11 | 359 | 7.1 | 55 | L | | | | | | | | |
| 12 | 365 | 5.2 | 46 | L | | | | | | | | |
| 13 | 357 | 4.9 | 46 | L | | | | | | | | |
| 14 | 363 | 6.6 | 48 | J | | | | | | | | |
| 15 | 354 | 7.2 | 52 | J | 6.6 | -43 | 81 | 0.7 | 4.6 | -3.8 | 3 | J |
| 16 | 363 | 6.9 | 58 | J | 6.8 | -14 | 72 | 1.9 | 6.1 | -0.9 | 2 | J |
| 17 | 344 | 6.8 | 58 | J | 6.1 | 60 | 96 | -0.2 | 1.6 | 4.2 | 4 | J |
| 18 | 372 | 6.9 | 60 | J | 6.1 | 12 | 53 | 2.7 | 3.3 | 1.7 | 4 | J |
| 19 | 364 | 6.5 | 75 | J | 5.4 | -18 | 67 | 1.6 | 4.0 | -0.3 | 3 | J |
| 20 | 351 | 7.3 | 62 | J | 5.1 | -59 | 109 | -0.8 | 3.4 | -3.2 | 2 | J |
| 21 | | | | | 5.2 | -70 | 233 | -1.1 | 0.3 | -5.1 | 1 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 5.5 | -47 | 105 | -0.8 | 4.1 | -2.0 | 3 | J |
| 24 | | | | | | | | | | | | |

### JAN. 15, 1978

15

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 4.4 | -1 | 126 | -2.5 | 3.2 | 1.1 | 2 | J |
| 3 | | | | | 4.6 | -13 | 117 | -1.9 | 3.9 | 0.2 | 1 | J |
| 4 | 301 | 8.7 | 15 | J | 4.2 | -1 | 117 | -1.9 | 3.6 | 0.9 | 1 | J |
| 5 | 307 | 11.6 | 17 | J | 3.0 | -8 | 118 | -1.3 | 2.5 | 0.1 | 1 | J |
| 6 | | | | | 2.3 | 31 | 277 | 0.2 | -1.9 | 0.8 | 1 | J |
| 7 | | | | | 3.3 | -9 | 282 | 0.6 | -2.9 | -0.7 | 1 | J |
| 8 | 301 | 10.3 | 15 | J | 3.3 | 4 | 279 | 0.4 | -2.3 | 0.1 | 2 | J |
| 9 | 301 | 11.1 | 13 | J | 3.1 | 22 | 257 | -0.6 | -2.6 | 1.1 | 1 | J |
| 10 | | | | | 2.2 | -10 | 336 | 2.0 | -0.9 | -0.4 | 0 | J |
| 11 | | | | | 4.8 | -64 | 355 | 1.8 | -0.3 | -3.8 | 2 | J |
| 12 | | | | | 4.7 | -38 | 314 | 2.3 | -2.4 | -2.5 | 2 | J |
| 13 | | | | | 4.7 | 4 | 293 | 1.8 | -4.1 | 0.3 | 1 | J |
| 14 | | | | | 5.2 | -12 | 273 | 0.2 | -3.6 | -0.9 | 4 | J |
| 15 | | | | | 5.1 | 6 | 305 | 2.8 | -4.0 | 0.2 | 1 | J |
| 16 | 291 | 8.5 | 17 | J | 5.3 | 21 | 277 | 0.6 | -5.0 | 1.3 | 1 | J |
| 17 | 283 | 7.8 | 17 | J | 5.0 | 36 | 292 | 1.5 | -4.1 | 2.2 | 1 | J |
| 18 | 283 | 7.4 | 18 | J | 5.1 | 34 | 292 | 1.5 | -4.3 | 1.8 | 1 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 4.9 | 64 | 311 | 1.2 | -2.4 | 3.1 | 3 | J |
| 21 | | | | | 5.2 | 36 | 298 | 2.0 | -4.5 | 1.6 | 1 | J |
| 22 | 274 | 5.8 | 13 | J | 5.5 | 40 | 323 | 3.3 | -3.6 | 2.3 | 1 | J |
| 23 | | | | | 5.4 | 39 | 317 | 3.1 | -4.0 | 2.0 | 1 | J |
| 24 | | | | | | | | | | | | |

### JAN. 17, 1978

17

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 318 | 18.8 | 23 | J | 10.4 | -17 | 120 | -4.7 | 8.7 | 0.5 | 3 | J |
| 2 | 327 | 27.7 | 14 | J | 10.9 | -23 | 120 | -4.6 | 8.9 | -0.8 | 4 | J |
| 3 | 335 | 31.1 | 12 | J | | | | | | | | |
| 4 | 330 | 29.2 | 14 | J | 13.1 | -18 | 118 | -5.6 | 11.2 | -0.9 | 3 | J |
| 5 | 316 | 25.2 | 16 | J | 12.9 | 20 | 96 | -1.3 | 10.8 | 6.9 | 1 | J |
| 6 | 321 | 25.2 | 18 | J | 13.0 | 30 | 82 | 1.5 | 9.9 | 8.0 | 2 | J |
| 7 | | | | | 10.4 | 43 | 44 | 5.0 | 4.2 | 6.9 | 4 | J |
| 8 | 328 | 23.0 | 23 | J | 11.1 | 44 | 29 | 6.7 | 3.4 | 7.6 | 3 | J |
| 9 | 331 | 26.2 | 27 | J | 10.6 | 42 | 37 | 6.2 | 4.6 | 7.0 | 2 | J |
| 10 | 335 | 18.0 | 30 | J | 11.1 | 47 | 35 | 6.1 | 4.4 | 8.0 | 2 | J |
| 11 | 321 | 23.7 | 35 | J | 11.0 | 43 | 30 | 6.8 | 4.0 | 7.2 | 3 | J |
| 12 | 332 | 15.6 | 27 | J | 11.9 | 32 | 57 | 5.4 | 8.3 | 6.1 | 2 | J |
| 13 | 341 | 12.5 | 37 | J | 11.6 | 28 | 63 | 4.3 | 8.5 | 5.1 | 4 | J |
| 14 | 328 | 17.5 | 24 | J | 11.4 | 12 | 60 | 5.4 | 9.2 | 2.7 | 3 | J |
| 15 | 323 | 14.5 | 23 | J | 11.7 | 15 | 69 | 4.1 | 10.3 | 3.9 | 1 | J |
| 16 | 319 | 13.2 | 23 | J | 11.6 | 15 | 77 | 2.5 | 10.4 | 4.4 | 0 | J |
| 17 | 316 | 10.8 | 19 | J | 11.3 | -9 | 69 | 3.9 | 10.4 | 0.1 | 2 | J |
| 18 | 310 | 11.5 | 21 | J | 11.1 | -8 | 85 | 0.9 | 10.9 | 1.0 | 1 | J |
| 19 | 367 | 7.3 | 24 | J | 10.7 | -14 | 82 | 1.4 | 10.2 | 0.4 | 2 | J |
| 20 | 303 | 15.2 | 23 | J | 10.3 | -13 | 88 | 0.3 | 9.8 | 1.0 | 3 | J |
| 21 | 307 | 14.6 | 26 | J | 11.5 | 0 | 88 | 0.4 | 10.4 | 4.0 | 3 | J |
| 22 | 311 | 19.5 | 20 | J | 11.4 | -19 | 94 | -0.7 | 10.9 | 0.7 | 3 | J |
| 23 | 311 | 19.2 | 17 | J | 12.2 | -34 | 111 | -3.6 | 11.4 | -2.5 | 1 | J |
| 24 | 309 | 26.3 | 13 | J | 11.4 | -50 | 119 | -3.5 | 9.2 | -5.3 | 2 | J |

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JAN. 18, 1978

18

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 308 | 24.9 | 13 | J | 11.6 | -41 | 117 | -3.8 | 9.8 | -3.8 | 2 | J |
| 2 | 308 | 22.3 | 17 | J | 11.2 | -40 | 115 | -3.6 | 9.8 | -3.8 | 1 | J |
| 3 | 309 | 27.7 | 23 | J | 10.9 | -49 | 130 | -4.4 | 7.6 | -5.8 | 3 | J |
| 4 | 313 | 24.4 | 27 | J | 10.9 | -66 | 178 | -3.7 | 2.4 | -7.9 | 6 | J |
| 5 | 318 | 17.6 | 41 | J | 10.9 | -64 | 206 | -3.7 | 0.1 | -8.6 | 6 | J |
| 6 | 318 | 12.1 | 60 | J | 10.4 | -45 | 267 | -0.3 | -5.4 | -7.5 | 5 | J |
| 7 | 308 | 13.4 | 55 | J | 8.5 | -60 | 254 | -1.1 | -3.2 | -7.4 | 3 | J |
| 8 | 309 | 12.7 | 41 | J | 9.2 | -58 | 248 | -1.8 | -4.0 | -7.8 | 2 | J |
| 9 | 319 | 14.6 | 36 | J | 7.7 | -13 | 233 | -4.4 | -5.8 | -1.8 | 2 | J |
| 10 | 318 | 13.3 | 34 | J | 7.8 | -51 | 204 | -4.4 | -2.0 | -6.0 | 2 | J |
| 11 | 317 | 13.7 | 42 | J | 6.6 | -47 | 237 | -2.3 | -3.7 | -4.6 | 2 | J |
| 12 | 314 | 13.3 | 40 | J | 6.0 | -52 | 217 | -2.7 | -2.1 | -4.3 | 2 | J |
| 13 | 285 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 14 | 281 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 15 | 307 | 12.7 | 38 | J | 5.1 | 11 | 315 | 2.9 | -3.0 | 0.5 | 3 | J |
| 16 | 317 | 11.9 | 83 | J | 5.1 | 12 | 339 | 4.5 | -1.8 | 0.8 | 1 | J |
| 17 | 307 | 14.0 | 46 | J | 4.6 | 19 | 329 | 3.6 | -2.4 | 1.0 | 1 | J |
| 18 | 314 | 12.5 | 54 | J | 5.1 | 1 | 340 | 4.6 | -1.6 | -0.3 | 2 | J |
| 19 | 319 | 10.3 | 54 | J | 4.4 | -11 | 353 | 4.0 | -0.2 | -0.9 | 1 | J |
| 20 | 318 | 10.4 | 54 | J | 3.9 | 1 | 347 | 3.5 | -0.8 | -0.2 | 1 | J |
| 21 | 339 | 15.7 | 48 | J | 5.4 | 15 | 342 | 5.0 | -2.0 | 0.7 | 1 | J |
| 22 | 338 | 20.6 | 32 | J | 2.5 | 46 | 76 | 0.4 | 0.8 | 2.1 | 1 | J |
| 23 | 335 | 18.0 | 36 | J | 3.6 | 23 | 334 | 2.7 | -1.7 | 0.6 | 2 | J |
| 24 | 335 | 17.3 | 39 | J | 4.4 | -10 | 349 | 3.9 | -0.4 | -0.9 | 2 | J |

JAN. 19, 1978

19

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 336 | 20.5 | 26 | J | 3.2 | -54 | 17 | 1.4 | 1.2 | -1.7 | 2 | J |
| 2 | 331 | 17.2 | 27 | J | 5.8 | -50 | 19 | 3.3 | 2.6 | -3.5 | 2 | J |
| 3 | 330 | 16.2 | 29 | J | 7.4 | -13 | 330 | 6.0 | -2.7 | -2.7 | 2 | J |
| 4 | 329 | 16.9 | 30 | J | 6.7 | 14 | 321 | 5.0 | -4.3 | 0.4 | 1 | J |
| 5 | 324 | 19.2 | 24 | J | 5.7 | 37 | 328 | 3.7 | -3.0 | 2.7 | 2 | J |
| 6 | 314 | 21.3 | 29 | J | 4.3 | 5 | 312 | 2.6 | -2.9 | -0.1 | 2 | J |
| 7 | 321 | 23.4 | 23 | J | 4.5 | 18 | 310 | 2.6 | -3.3 | 1.0 | 1 | J |
| 8 | 323 | 18.3 | 19 | J | 7.6 | -46 | 130 | -2.8 | 3.6 | -4.3 | 4 | J |
| 9 | 316 | 12.6 | 21 | J | 9.1 | -25 | 119 | -4.0 | 7.2 | -3.6 | 1 | J |
| 10 | 318 | 10.6 | 19 | J | 9.2 | -32 | 125 | -4.4 | 6.3 | -4.8 | 1 | J |
| 11 | 314 | 9.2 | 29 | L |  |  |  |  |  |  |  |  |
| 12 | 311 | 7.8 | 29 | L |  |  |  |  |  |  |  |  |
| 13 | 336 | 8.4 | 19 | J | 8.4 | -20 | 83 | 0.9 | 7.7 | -2.6 | 2 | J |
| 14 | 334 | 11.2 | 21 | J | 8.0 | -41 | 75 | 1.4 | 5.6 | -4.5 | 3 | J |
| 15 | 339 | 11.0 | 24 | J | 7.6 | -77 | 14 | 1.6 | 1.1 | -7.2 | 1 | J |
| 16 | 340 | 7.2 | 26 | J | 8.2 | -7 | 60 | 3.8 | 6.7 | 0.0 | 3 | J |
| 17 | 341 | 7.8 | 24 | J | 8.7 | -8 | 54 | 5.0 | 7.0 | 0.1 | 1 | J |
| 18 | 329 | 11.0 | 49 | J | 7.5 | -25 | 51 | 4.1 | 5.7 | -1.7 | 2 | J |
| 19 | 326 | 9.1 | 23 | J | 7.7 | 0 | 62 | 3.5 | 6.3 | 1.9 | 2 | J |
| 20 | 305 | 7.9 | 21 | J | 7.7 | -20 | 94 | -0.5 | 7.5 | -0.1 | 2 | J |
| 21 | 297 | 7.6 | 28 | J | 7.4 | -23 | 97 | -0.8 | 7.2 | -0.2 | 2 | J |
| 22 | 298 | 8.3 | 34 | J | 6.7 | -37 | 115 | -2.2 | 6.0 | -1.8 | 1 | J |
| 23 | 291 | 8.5 | 50 | J | 6.4 | -34 | 122 | -2.7 | 5.4 | -1.4 | 2 | J |
| 24 | 299 | 8.8 | 22 | J | 7.0 | -17 | 88 | 0.2 | 6.3 | 0.8 | 3 | J |

JAN. 20, 1978

20

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 315 | 11.2 | 34 | J | 5.7 | 25 | 42 | 3.6 | 2.1 | 3.4 | 2 | J |
| 2 | 312 | 11.0 | 48 | J | 5.5 | 30 | 20 | 4.2 | 0.4 | 2.9 | 2 | J |
| 3 | 307 | 12.6 | 66 | J | 5.1 | 18 | 347 | 4.4 | -1.5 | 1.1 | 2 | J |
| 4 | 304 | 11.3 | 50 | J | 4.9 | 6 | 333 | 4.2 | -2.2 | -0.1 | 1 | J |
| 5 | 301 | 10.7 | 44 | J | 5.3 | -13 | 344 | 4.8 | -1.1 | -1.4 | 1 | J |
| 6 | 309 | 12.0 | 45 | J | 4.8 | -48 | 329 | 2.6 | -1.0 | -3.6 | 2 | J |
| 7 | 310 | 11.4 | 32 | J | 4.8 | -39 | 294 | 1.2 | -2.5 | -2.8 | 3 | J |
| 8 | 314 | 12.0 | 27 | J | 4.9 | -38 | 253 | -1.1 | -3.3 | -3.1 | 2 | J |
| 9 | 312 | 12.0 | 33 | J | 5.6 | -24 | 291 | 1.4 | -3.6 | -1.9 | 3 | J |
| 10 | 308 | 12.0 | 37 | J | 5.9 | 28 | 320 | 3.7 | -3.1 | 2.5 | 2 | J |
| 11 | 309 | 12.0 | 40 | J | 5.3 | 36 | 328 | 3.2 | -2.0 | 2.7 | 3 | J |
| 12 | 310 | 12.1 | 50 | J | 3.8 | 15 | 4 | 3.2 | 0.2 | 0.9 | 2 | J |
| 13 | 317 | 12.1 | 37 | J | 3.4 | -23 | 297 | 0.8 | -1.6 | -0.8 | 3 | J |
| 14 | 317 | 11.9 | 32 | J | 4.5 | 4 | 282 | 0.7 | -3.1 | 0.0 | 3 | J |
| 15 | 301 | 10.1 | 39 | L |  |  |  |  |  |  |  |  |
| 16 | 308 | 9.1 | 37 | L |  |  |  |  |  |  |  |  |
| 17 | 296 | 8.8 | 48 | L |  |  |  |  |  |  |  |  |
| 18 | 302 | 8.2 | 42 | L |  |  |  |  |  |  |  |  |
| 19 | 305 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

JAN. 21, 1978

21

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 290 | 7.0 | 22 | L |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 286 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 5 | 280 | 9.5 | 12 | L |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 275 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 14 | 271 | 10.7 | 10 | L |  |  |  |  |  |  |  |  |
| 15 | 274 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 16 | 276 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 17 | 273 | 10.4 | 19 | L |  |  |  |  |  |  |  |  |
| 18 | 268 | 9.0 | 17 | L |  |  |  |  |  |  |  |  |
| 19 | 261 | 6.9 | 17 | L |  |  |  |  |  |  |  |  |
| 20 | 263 | 7.0 | 15 | L |  |  |  |  |  |  |  |  |
| 21 | 263 | 7.2 | 15 | L |  |  |  |  |  |  |  |  |
| 22 | 263 | 8.7 | 16 | L |  |  |  |  |  |  |  |  |
| 23 | 272 | 11.7 | 19 | L |  |  |  |  |  |  |  |  |
| 24 | 278 | 15.6 | 18 | L |  |  |  |  |  |  |  |  |

JAN. 22, 1978

22

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 280 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 2 | 279 | 17.0 | 11 | L |  |  |  |  |  |  |  |  |
| 3 | 288 | 15.0 | 23 | L |  |  |  |  |  |  |  |  |
| 4 | 290 | 16.0 | 27 | L |  |  |  |  |  |  |  |  |
| 5 | 293 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 6 | 283 | 13.6 | 22 | L |  |  |  |  |  |  |  |  |
| 7 | 285 | 12.6 | 19 | L |  |  |  |  |  |  |  |  |
| 8 | 281 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 9 | 279 | 15.5 | 21 | L |  |  |  |  |  |  |  |  |
| 10 | 277 | 17.1 | 21 | L |  |  |  |  |  |  |  |  |
| 11 | 282 | 15.7 | 18 | L |  |  |  |  |  |  |  |  |
| 12 | 283 | 16.0 | 19 | L |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 288 | 14.4 | 36 | L |  |  |  |  |  |  |  |  |
| 16 | 283 | 14.0 | 43 | L |  |  |  |  |  |  |  |  |
| 17 | 282 | 13.8 | 44 | L |  |  |  |  |  |  |  |  |
| 18 | 289 | 12.2 | 37 | L |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 282 | 10.3 | 17 | L |  |  |  |  |  |  |  |  |
| 21 | 280 | 11.7 | 11 | L |  |  |  |  |  |  |  |  |
| 22 | 278 | 11.8 | 11 | L |  |  |  |  |  |  |  |  |
| 23 | 281 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 24 | 275 | 14.5 | 8 | L |  |  |  |  |  |  |  |  |

JAN. 23, 1978

23

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 274 | 12.5 | 8 | L |  |  |  |  |  |  |  |  |
| 2 | 272 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 270 | 10.7 | 26 | L |  |  |  |  |  |  |  |  |
| 6 | 269 | 9.5 | 31 | L |  |  |  |  |  |  |  |  |
| 7 | 261 | 9.0 | 34 | L |  |  |  |  |  |  |  |  |
| 8 | 272 | 10.6 | 23 | L |  |  |  |  |  |  |  |  |
| 9 | 263 | 10.7 | 28 | L |  |  |  |  |  |  |  |  |
| 10 | 262 | 10.8 | 26 | L |  |  |  |  |  |  |  |  |
| 11 | 259 | 10.5 | 23 | L |  |  |  |  |  |  |  |  |
| 12 | 256 | 11.2 | 25 | L |  |  |  |  |  |  |  |  |
| 13 | 256 | 11.3 | 26 | L |  |  |  |  |  |  |  |  |
| 14 | 255 | 11.9 | 24 | L |  |  |  |  |  |  |  |  |
| 15 | 253 | 11.5 | 23 | L |  |  |  |  |  |  |  |  |
| 16 | 253 | 12.3 | 25 | L |  |  |  |  |  |  |  |  |
| 17 | 258 | 13.2 | 23 | L |  |  |  |  |  |  |  |  |
| 18 | 262 | 12.2 | 25 | L |  |  |  |  |  |  |  |  |
| 19 | 254 | 13.0 | 22 | L |  |  |  |  |  |  |  |  |
| 20 | 262 | 10.0 | 25 | L |  |  |  |  |  |  |  |  |
| 21 | 264 | 8.8 | 25 | L |  |  |  |  |  |  |  |  |
| 22 | 271 | 8.6 | 20 | L |  |  |  |  |  |  |  |  |
| 23 | 273 | 8.5 | 20 | L |  |  |  |  |  |  |  |  |
| 24 | 272 | 8.4 | 21 | L |  |  |  |  |  |  |  |  |

JAN. 24, 1978

24

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 273 | 9.7 | 20 | L |  |  |  |  |  |  |  |  |
| 2 | 270 | 8.7 | 23 | L |  |  |  |  |  |  |  |  |
| 3 | 275 | 9.1 | 21 | L |  |  |  |  |  |  |  |  |
| 4 | 268 | 7.2 | 36 | L |  |  |  |  |  |  |  |  |
| 5 | 272 | 7.9 | 34 | L |  |  |  |  |  |  |  |  |
| 6 | 274 | 7.6 | 30 | L |  |  |  |  |  |  |  |  |
| 7 | 281 | 8.3 | 30 | L |  |  |  |  |  |  |  |  |
| 8 | 291 | 10.4 | 33 | L |  |  |  |  |  |  |  |  |
| 9 | 296 | 10.1 | 36 | L |  |  |  |  |  |  |  |  |
| 10 | 288 | 11.2 | 41 | L |  |  |  |  |  |  |  |  |
| 11 | 284 | 11.5 | 36 | L |  |  |  |  |  |  |  |  |
| 12 | 281 | 11.8 | 37 | L |  |  |  |  |  |  |  |  |
| 13 | 282 | 10.9 | 36 | L |  |  |  |  |  |  |  |  |
| 14 | 292 | 13.4 | 35 | L |  |  |  |  |  |  |  |  |
| 15 | 292 | 10.5 | 47 | L |  |  |  |  |  |  |  |  |
| 16 | 306 | 18.4 | 30 | L |  |  |  |  |  |  |  |  |
| 17 | 298 | 21.5 | 28 | L |  |  |  |  |  |  |  |  |
| 18 | 292 | 19.6 | 28 | L |  |  |  |  |  |  |  |  |
| 19 | 282 | 15.8 | 33 | L |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 283 | 19.9 | 19 | L |  |  |  |  |  |  |  |  |
| 23 | 283 | 19.9 | 12 | L |  |  |  |  |  |  |  |  |
| 24 | 282 | 18.6 | 15 | L |  |  |  |  |  |  |  |  |

JAN. 25, 1978

25

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 276 | 18.7 | 15 | L |  |  |  |  |  |  |  |  |
| 2 | 275 | 18.5 | 14 | L |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 278 | 19.0 | 14 | L |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 313 | 14.0 | 19 | L |  |  |  |  |  |  |  |  |
| 11 | 313 | 14.3 | 18 | L |  |  |  |  |  |  |  |  |
| 12 | 310 | 15.0 | 26 | L |  |  |  |  |  |  |  |  |
| 13 | 319 | 15.7 | 21 | L |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 362 | 24.7 | 53 | L |  |  |  |  |  |  |  |  |
| 17 | 377 | 36.9 | 43 | L |  |  |  |  |  |  |  |  |
| 18 | 375 | 52.9 | 28 | L |  |  |  |  |  |  |  |  |
| 19 | 373 | 96.1 | 26 | L |  |  |  |  |  |  |  |  |
| 20 | 384 | 96.6 | 43 | L |  |  |  |  |  |  |  |  |
| 21 | 386 | 65.2 | 73 | L |  |  |  |  |  |  |  |  |
| 22 | 388 | 50.0 | 137 | L |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

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## JAN. 26, 1978

26

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | 5.5 | 24 | 5 | 3.2 | 0.1 | 1.4 | 4 | J |
| 8 | 505 | 6.9 | 90 | J | 6.3 | 26 | 26 | 4.7 | 2.0 | 2.8 | 2 | J |
| 9 | 496 | 6.3 | 96 | J | 6.1 | 1 | 2 | 6.0 | 0.2 | 0.1 | 1 | J |
| 10 | 487 | 5.8 | 112 | J | 5.6 | 8 | 349 | 5.1 | -1.0 | 0.7 | 1 | J |
| 11 | 496 | 6.3 | 131 | J | 5.5 | 3 | 284 | 1.2 | -4.9 | 0.1 | 2 | J |
| 12 | 482 | 6.6 | 152 | J | 4.9 | 0 | 339 | 2.8 | -1.1 | -0.1 | 4 | J |
| 13 | 459 | 6.9 | 119 | J | 5.3 | 5 | 353 | 4.8 | -0.6 | 0.4 | 2 | J |
| 14 | 485 | 6.0 | 140 | J | 5.3 | 20 | 332 | 3.8 | -2.2 | 1.4 | 3 | J |
| 15 | 499 | 5.9 | 151 | J | 4.3 | 10 | 281 | 0.7 | -3.5 | 0.1 | 2 | J |
| 16 | 497 | 6.7 | 169 | J | 3.7 | 38 | 257 | -0.6 | -2.8 | 1.5 | 2 | J |
| 17 | 474 | 5.6 | 128 | J | 6.3 | 25 | 292 | 1.7 | -4.7 | 1.1 | 4 | J |
| 18 | 455 | 5.2 | 116 | J | 6.4 | 33 | 311 | 3.4 | -4.6 | 2.1 | 2 | J |
| 19 | 465 | 6.4 | 95 | J | 5.1 | 40 | 281 | 0.7 | -4.1 | 1.6 | 2 | J |
| 20 | 434 | 6.9 | 100 | J | 5.9 | 41 | 345 | 4.0 | -2.3 | 2.9 | 2 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

## JAN. 28, 1978

28

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 367 | 4.5 | 28 | J | 3.9 | 44 | 2 | 2.7 | -0.9 | 2.5 | 1 | J |
| 4 | 366 | 5.3 | 28 | J | 3.7 | 41 | 326 | 2.1 | -2.0 | 1.6 | 2 | J |
| 5 | 354 | 5.7 | 29 | J | 3.8 | 2 | 278 | 0.5 | -3.5 | -0.9 | 1 | J |
| 6 | 351 | 5.9 | 31 | J | 3.6 | -14 | 242 | -1.4 | -2.4 | -1.3 | 2 | J |
| 7 | 348 | 5.6 | 26 | J | 3.3 | -17 | 244 | -1.3 | -2.4 | -1.3 | 1 | J |
| 8 | 351 | 5.4 | 31 | J | 3.6 | -47 | 236 | -1.2 | -1.5 | -2.5 | 2 | J |
| 9 | 351 | 5.5 | 27 | J | 2.9 | -60 | 163 | -1.3 | 0.6 | -2.4 | 1 | J |
| 10 | 347 | 5.1 | 30 | J | 2.7 | -5 | 273 | 0.1 | -2.0 | -0.3 | 2 | J |
| 11 | 346 | 5.9 | 26 | J | 2.5 | -15 | 278 | 0.3 | -2.2 | -0.7 | 1 | J |
| 12 | 349 | 9.4 | 32 | J | 3.4 | 4 | 291 | 1.1 | -3.0 | 0.0 | 1 | J |
| 13 | 356 | 12.8 | 29 | J | 3.2 | 4 | 3 6 | 1.8 | -2.5 | 0.0 | 1 | J |
| 14 | 361 | 15.2 | 20 | J | 3.0 | 8 | 333 | 1.6 | -2.4 | 0.1 | 1 | J |
| 15 | 362 | 19.7 | 22 | J | 3.0 | -12 | 296 | 1.1 | -2.2 | -0.9 | 2 | J |
| 16 | 355 | 22.7 | 21 | J | 4.5 | -28 | 268 | -0.1 | -2.5 | -2.0 | 3 | J |
| 17 | 357 | 27.4 | 21 | J | 4.5 | -41 | 124 | -1.5 | 2.8 | -1.7 | 3 | J |
| 18 | 355 | 22.7 | 22 | J | 5.7 | -22 | 237 | -2.8 | -3.5 | -3.3 | 1 | J |
| 19 | 353 | 26.7 | 30 | J | 5.2 | -24 | 250 | -1.3 | -2.8 | -2.8 | 3 | J |
| 20 | 381 | 46.0 | 63 | J | 9.4 | 9 | 296 | 1.9 | -3.8 | -0.8 | 9 | J |
| 21 | 390 | 47.1 | 75 | J | 13.0 | 15 | 75 | 2.6 | 7.6 | 6.4 | 9 | J |
| 22 | 417 | 26.9 | 88 | J | 16.5 | -31 | 125 | -3.7 | 6.4 | -1.1 | 14 | J |
| 23 | 429 | 29.2 | 270 | J | 9.9 | 46 | 328 | 4.6 | -5.1 | 3.7 | 6 | J |
| 24 | 432 | 26.7 | 341 | J | 10.1 | 27 | 4 | 8.1 | -1.4 | 3.9 | 4 | J |

## JAN. 30, 1978

30

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 28.6 | 46 | 150 | -3.4 | 8.1 | 26.8 | 5 | J |
| 2 | 525 | 16.5 | 224 | J | 21.9 | 49 | 336 | 12.3 | -11.6 | 11.7 | 7 | J |
| 3 | 523 | 16.2 | 142 | J | 22.3 | 45 | 348 | 14.5 | -8.6 | 12.4 | 8 | J |
| 4 | 549 | 17.9 | 326 | J | 13.6 | 34 | 336 | 9.8 | -6.6 | 5.3 | 4 | J |
| 5 | 592 | 12.5 | 307 | J | 16.2 | 6 | 298 | 7.1 | -13.3 | -2.4 | 5 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 628 | 14.7 | 91 | J | 9.3 | -71 | 150 | -2.0 | 2.0 | -6.4 | 7 | J |
| 9 | 636 | 17.4 | 77 | J | 9.9 | -27 | 357 | 8.5 | -0.0 | -4.4 | 2 | J |
| 10 | 624 | 17.1 | 86 | J | 10.9 | -44 | 20 | 7.2 | 3.1 | -7.2 | 2 | J |
| 11 | 608 | 18.7 | 111 | J | 9.8 | -29 | 27 | 6.9 | 3.8 | -4.1 | 4 | J |
| 12 | 614 | 14.4 | 85 | J | 12.4 | 9 | 21 | 11.0 | 4.1 | 2.2 | 3 | J |
| 13 | 607 | 7.9 | 41 | J | 13.4 | 24 | 18 | 11.6 | 3.3 | 5.7 | 2 | J |
| 14 | 601 | 7.1 | 16 | L | 12.9 | 22 | 21 | 11.0 | 3.6 | 5.2 | 2 | J |
| 15 | 595 | 4.3 | 17 | L | 12.0 | 20 | 23 | 10.4 | 3.7 | 4.7 | 1 | J |
| 16 | 594 | 5.4 | 33 | J | 10.8 | 13 | 29 | 9.2 | 4.5 | 3.4 | 1 | J |
| 17 | 588 | 5.0 | 46 | J | 10.2 | 30 | 17 | 8.4 | 1.2 | 5.5 | 2 | J |
| 18 | 584 | 4.6 | 51 | J | 10.0 | 24 | 16 | 8.7 | 1.2 | 4.6 | 1 | J |
| 19 | 582 | 4.4 | 52 | J | 9.6 | 8 | 27 | 8.1 | 3.4 | 2.7 | 3 | J |
| 20 | 571 | 5.3 | 64 | J | 8.8 | 7 | 18 | 8.0 | 2.0 | 2.0 | 2 | J |
| 21 | 564 | 5.7 | 57 | J | 8.6 | -3 | 17 | 8.0 | 2.4 | 0.6 | 2 | J |
| 22 | 554 | 9.7 | 40 | J | 8.5 | 4 | 7 | 7.9 | 0.6 | 0.9 | 3 | J |
| 23 | 553 | 6.9 | 39 | J | 8.0 | 0 | 342 | 7.2 | -2.1 | -1.1 | 2 | J |
| 24 | 549 | 7.3 | 40 | J | 8.5 | -2 | 331 | 7.1 | -3.3 | -2.1 | 2 | J |

## FEB. 1, 1978

32

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 481 | 5.6 | 70 | J | 4.4 | -38 | 253 | -0.7 | -1.2 | -2.7 | 3 | J |
| 2 | 469 | 5.5 | 59 | J | 4.3 | -15 | 297 | 1.4 | -2.2 | -2.0 | 3 | J |
| 3 | 485 | 4.9 | 63 | J | 4.5 | -22 | 249 | -1.4 | -2.6 | -2.8 | 2 | J |
| 4 | 453 | 5.6 | 80 | L | | | | | | | | |
| 5 | 467 | 5.9 | 77 | L | | | | | | | | |
| 6 | 465 | 7.0 | 65 | L | | | | | | | | |
| 7 | 465 | 6.8 | 63 | L | | | | | | | | |
| 8 | 458 | 6.8 | 78 | L | | | | | | | | |
| 9 | 448 | 6.9 | 77 | L | | | | | | | | |
| 10 | 437 | 7.5 | 82 | L | | | | | | | | |
| 11 | 436 | 7.7 | 81 | L | | | | | | | | |
| 12 | 449 | 8.3 | 72 | J | 4.4 | 20 | 301 | 2.1 | -3.6 | 1.2 | 1 | J |
| 13 | 451 | 8.3 | 70 | J | 4.7 | 22 | 297 | 1.9 | -3.9 | 1.3 | 1 | J |
| 14 | 458 | 9.4 | 67 | J | 4.6 | -50 | 266 | -0.1 | -1.8 | -2.8 | 3 | J |
| 15 | 448 | 9.9 | 78 | L | | | | | | | | |
| 16 | 451 | 10.7 | 85 | L | | | | | | | | |
| 17 | 420 | 11.2 | 105 | J | 5.8 | 14 | 358 | 5.4 | -0.5 | 1.3 | 1 | J |
| 18 | 421 | 11.0 | 99 | J | 5.4 | 29 | 15 | 4.4 | 0.3 | 2.8 | 1 | J |
| 19 | 419 | 10.3 | 74 | J | 5.7 | 6 | 31 | 2.8 | 1.5 | 0.9 | 4 | J |
| 20 | 427 | 9.6 | 71 | J | 6.0 | 34 | 30 | 4.1 | 0.9 | 3.9 | 2 | J |
| 21 | 438 | 8.4 | 91 | J | 5.9 | 52 | 2 | 3.1 | -1.7 | 3.7 | 3 | J |
| 22 | 462 | 5.8 | 115 | J | 5.6 | 8 | 309 | 3.2 | -3.9 | -1.2 | 2 | J |
| 23 | 462 | 7.1 | 169 | L | | | | | | | | |
| 24 | 477 | 6.4 | 163 | L | | | | | | | | |

## JAN. 27, 1978

27

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2.2 | 39 | 243 | -0.6 | -1.5 | 0.4 | 2 | J |
| | | | | 4.6 | 40 | 287 | 0.9 | -3.7 | 1.1 | 2 | J |
| | | | | 4.5 | 9 | 289 | 1.3 | -3.8 | -0.8 | 2 | J |
| | | | | 4.7 | 17 | 281 | 0.8 | -4.2 | -0.1 | 2 | J |
| | | | | 3.9 | -3 | 215 | -3.0 | -2.0 | -0.8 | 1 | J |
| | | | | 3.9 | -10 | 227 | -2.4 | -2.3 | -1.1 | 2 | J |
| | | | | 3.6 | 8 | 274 | 0.1 | -1.7 | -0.0 | 3 | J |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 409 | 3.4 | 42 | J | 2.0 | 12 | 242 | -0.5 | -1.7 | 0.3 | 1 | J |
| 400 | 3.2 | 40 | J | 1.9 | 23 | 250 | -0.4 | -1.2 | 0.5 | 1 | J |
| 398 | 3.0 | 41 | J | 2.0 | 37 | 237 | -0.7 | -1.2 | 0.8 | 1 | J |
| 383 | 3.3 | 37 | J | 2.1 | 13 | 223 | -1.4 | -1.3 | 0.2 | 1 | J |
| 386 | 3.0 | 30 | J | 2.1 | 0 | 222 | -1.5 | -1.3 | -0.3 | 1 | J |
| 383 | 2.9 | 29 | J | 2.2 | 1 | 211 | -1.8 | -1.1 | -0.2 | 1 | J |
| 379 | 3.3 | 44 | J | 1.8 | -1 | 226 | -1.2 | -1.2 | -0.4 | 1 | J |
| 358 | 2.5 | 34 | L | 1.8 | -14 | 324 | 1.3 | -0.8 | -0.7 | 1 | J |
| | | | | 2.1 | -8 | 312 | 1.4 | -1.3 | -0.9 | 0 | J |
| | | | | 2.1 | -6 | 301 | 1.0 | -1.5 | -0.9 | 1 | J |
| 359 | 4.5 | 27 | J | 2.6 | -9 | 272 | 0.1 | -1.9 | -1.3 | 1 | J |
| 362 | 4.3 | 24 | J | 2.5 | -13 | 270 | 0.0 | -1.6 | -1.3 | 1 | J |
| | | | | | | | | | | | |

## JAN. 29, 1978

29

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | 11.5 | 23 | 340 | 8.9 | -4.5 | 2.5 | 6 | J |
| 497 | 9.2 | 100 | J | 10.9 | 30 | 353 | 9.2 | -2.9 | 4.6 | 2 | J |
| 554 | 8.7 | 165 | J | 9.0 | -36 | 291 | 2.1 | -4.1 | -5.7 | 5 | J |
| 572 | 8.9 | 209 | J | 7.4 | -28 | 219 | -4.0 | -2.5 | -3.4 | 5 | J |
| 554 | 8.9 | 185 | J | 5.3 | -37 | 200 | -2.8 | -0.6 | -2.4 | 4 | J |
| 543 | 11.1 | 146 | J | 5.0 | 14 | 246 | -1.4 | -3.2 | 0.4 | 4 | J |
| 552 | 13.6 | 128 | J | 7.7 | -13 | 225 | -3.9 | -3.8 | -1.6 | 5 | J |
| 552 | 14.1 | 116 | J | 9.7 | 2 | 265 | -0.6 | -6.7 | -0.2 | 7 | J |
| 553 | 17.9 | 111 | J | 10.7 | -22 | 265 | -0.7 | -8.3 | -3.9 | 6 | J |
| 535 | 16.3 | 111 | J | 12.8 | 15 | 297 | 2.6 | -5.2 | 1.2 | 12 | J |
| 503 | 2.6 | 41 | J | 17.6 | -44 | 160 | -11.4 | 5.1 | -11.3 | 5 | J |
| 512 | 3.3 | 54 | J | 18.1 | -45 | 171 | -12.4 | 3.4 | -12.3 | 4 | J |
| 503 | 6.3 | 46 | J | 17.7 | -37 | 162 | -13.2 | 5.8 | -9.7 | 3 | J |
| 442 | 14.6 | 87 | J | 14.8 | 13 | 80 | 1.2 | 6.4 | 2.9 | 13 | J |
| 457 | 8.4 | 72 | J | 16.9 | -47 | 141 | -7.7 | 8.7 | -8.7 | 9 | J |
| 400 | 16.8 | 67 | J | 16.6 | 55 | 48 | 5.0 | 2.1 | 11.7 | 11 | J |
| 453 | 11.2 | 48 | J | 17.4 | 34 | 95 | -1.1 | 9.1 | 12.7 | 8 | J |
| 463 | 9.0 | 37 | J | 17.7 | 30 | 104 | -3.6 | 9.9 | 13.4 | 5 | J |
| | | | | 18.8 | 35 | 96 | -1.6 | 9.3 | 16.2 | 4 | J |
| 529 | 12.9 | 81 | J | 24.0 | 26 | 104 | -5.2 | 13.8 | 18.5 | 4 | J |
| 528 | 12.5 | 135 | J | 24.5 | 19 | 109 | -7.2 | 15.0 | 16.3 | 7 | J |
| 5.0 | 8.0 | 126 | J | 25.8 | 42 | 91 | -0.3 | 9.0 | 24.1 | 3 | J |

## JAN. 31, 1978

31

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| 495 | 0.0 | 0 | H | | | | | | | | |
| 436 | 0.0 | 0 | H | | | | | | | | |
| 529 | 4.0 | 46 | J | 8.0 | 13 | 327 | 6.4 | -4.5 | 0.2 | 1 | J |
| 517 | 4.3 | 58 | J | 7.9 | 14 | 333 | 6.7 | -3.8 | 0.8 | 1 | J |
| 517 | 5.6 | 52 | J | 7.5 | -21 | 327 | 5.3 | -2.8 | -3.2 | 3 | J |
| 497 | 6.1 | 29 | J | 7.6 | -4 | 324 | 6.1 | -4.3 | -1.3 | 1 | J |
| 498 | 6.6 | 29 | J | 8.1 | 1 | 322 | 5.8 | -4.5 | -0.5 | 3 | J |
| 502 | 7.2 | 35 | J | 7.6 | -29 | 294 | 2.5 | -5.2 | -3.9 | 3 | J |
| 491 | 5.6 | 51 | J | 7.4 | 3 | 324 | 5.7 | -4.1 | 0.0 | 2 | J |
| 489 | 6.4 | 49 | J | 7.1 | -20 | 315 | 4.7 | -4.5 | -2.7 | 1 | J |
| 441 | 0.0 | 0 | H | | | | | | | | |
| | | | | | | | | | | | |
| 447 | 0.0 | 0 | H | | | | | | | | |
| 512 | 0.0 | 0 | H | | | | | | | | |
| 513 | 0.0 | 0 | H | | | | | | | | |
| 519 | 0.0 | 0 | H | | | | | | | | |
| 571 | 0.0 | 0 | H | | | | | | | | |
| 468 | 4.4 | 42 | J | 6.7 | -33 | 297 | 2.3 | -3.1 | -4.7 | 3 | J |
| 493 | 4.3 | 44 | J | 6.6 | -26 | 288 | 1.8 | -3.9 | -4.7 | 2 | J |
| 462 | 4.4 | 43 | J | 6.4 | -23 | 295 | 2.5 | -3.7 | -4.6 | 1 | J |
| 460 | 3.2 | 36 | J | 6.5 | 24 | 339 | 5.5 | -3.1 | 1.4 | 1 | J |
| 473 | 6.2 | 104 | J | 5.4 | -7 | 329 | 4.3 | -2.0 | -1.8 | 2 | J |
| 495 | 5.5 | 74 | J | 4.5 | -57 | 233 | -1.0 | 0.0 | -2.9 | 3 | J |

## FEB. 2, 1978

33

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 477 | 6.2 | 164 | L | | | | | | | | |
| | | | | | | | | | | | |
| 462 | 6.6 | 140 | L | | | | | | | | |
| 485 | 6.6 | 125 | L | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 481 | 0.0 | 0 | H | | | | | | | | |
| | | | | | | | | | | | |
| 471 | 5.8 | 131 | L | | | | | | | | |
| 457 | 6.2 | 128 | L | | | | | | | | |
| 490 | 7.5 | 130 | L | | | | | | | | |
| 494 | 7.6 | 129 | L | | | | | | | | |
| 504 | 7.1 | 121 | L | | | | | | | | |
| 511 | 7.2 | 132 | L | | | | | | | | |
| 513 | 7.0 | 134 | L | | | | | | | | |
| 490 | 8.1 | 124 | L | | | | | | | | |
| 506 | 8.2 | 136 | L | | | | | | | | |
| 513 | 0.0 | 0 | H | | | | | | | | |
| 508 | 0.0 | 0 | H | | | | | | | | |
| 510 | 0.0 | 0 | H | | | | | | | | |
| 504 | 0.0 | 0 | H | | | | | | | | |

# 02/03/78 – 02/10/78

FEB. 3, 1978

34

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 501 | 0.0 | 0 | H | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 489 | 6.2 | 103 | L | | | | | | | | |
| 6 | 499 | 6.1 | 103 | L | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 472 | 0.0 | 0 | H | | | | | | | | |
| 10 | 470 | 6.6 | 82 | L | | | | | | | | |
| 11 | 481 | 5.9 | 84 | L | | | | | | | | |
| 12 | 486 | 6.7 | 75 | L | | | | | | | | |
| 13 | 478 | 5.8 | 83 | L | | | | | | | | |
| 14 | 476 | 6.8 | 86 | L | | | | | | | | |
| 15 | 473 | 6.2 | 90 | L | | | | | | | | |
| 16 | 464 | 6.0 | 80 | L | | | | | | | | |
| 17 | 471 | 6.2 | 91 | L | | | | | | | | |
| 18 | 468 | 6.2 | 110 | L | | | | | | | | |
| 19 | 454 | 5.9 | 108 | L | | | | | | | | |
| 20 | 457 | 5.8 | 118 | L | | | | | | | | |
| 21 | 459 | 0.0 | 0 | H | | | | | | | | |
| 22 | 450 | 5.8 | 102 | L | | | | | | | | |
| 23 | 467 | 6.1 | 103 | L | | | | | | | | |
| 24 | | | | | | | | | | | | |

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35

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 427 | 5.8 | 72 | L | | | | | | | | |
| 5 | 437 | 6.2 | 75 | L | | | | | | | | |
| 6 | 424 | 6.2 | 80 | L | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 438 | 8.0 | 58 | L | | | | | | | | |
| 12 | 434 | 12.6 | 47 | L | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 426 | 10.0 | 49 | L | | | | | | | | |
| 15 | 428 | 12.3 | 49 | L | | | | | | | | |
| 16 | 426 | 11.2 | 43 | L | | | | | | | | |
| 17 | 422 | 12.4 | 40 | L | | | | | | | | |
| 18 | 426 | 14.8 | 55 | L | | | | | | | | |
| 19 | 419 | 14.5 | 52 | L | | | | | | | | |
| 20 | 410 | 12.0 | 45 | L | | | | | | | | |
| 21 | 404 | 10.7 | 44 | L | | | | | | | | |
| 22 | 399 | 10.1 | 49 | L | | | | | | | | |
| 23 | 409 | 0.0 | 0 | H | | | | | | | | |
| 24 | 408 | 0.0 | 0 | H | | | | | | | | |

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36

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 12.1 | 51 | L | | | | | | | | |
| 2 | 397 | 0.0 | 0 | H | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 404 | 17.4 | 67 | L | | | | | | | | |
| 10 | 401 | 19.0 | 69 | L | | | | | | | | |
| 11 | 406 | 17.2 | 70 | L | | | | | | | | |
| 12 | 402 | 16.8 | 68 | L | | | | | | | | |
| 13 | 401 | 14.3 | 59 | L | | | | | | | | |
| 14 | 389 | 15.9 | 52 | L | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 395 | 6.9 | 118 | L | | | | | | | | |
| 18 | 392 | 6.4 | 116 | L | | | | | | | | |
| 19 | 385 | 5.3 | 97 | L | | | | | | | | |
| 20 | 386 | 7.2 | 77 | L | | | | | | | | |
| 21 | 385 | 7.2 | 72 | L | | | | | | | | |
| 22 | 377 | 6.8 | 53 | L | | | | | | | | |
| 23 | 380 | 8.4 | 55 | L | | | | | | | | |
| 24 | 379 | 8.6 | 51 | L | | | | | | | | |

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37

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 8.7 | 47 | L | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 385 | 9.2 | 41 | L | | | | | | | | |
| 4 | 384 | 7.8 | 42 | L | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 413 | 12.0 | 107 | L | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 416 | 9.0 | 44 | L | | | | | | | | |
| 18 | 418 | 10.8 | 39 | L | | | | | | | | |
| 19 | 418 | 7.1 | 26 | L | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 422 | 8.7 | 38 | L | | | | | | | | |
| 22 | 437 | 8.4 | 56 | L | | | | | | | | |
| 23 | 440 | 6.4 | 45 | L | | | | | | | | |
| 24 | 430 | 3.9 | 103 | L | | | | | | | | |

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38

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 427 | 7.1 | 69 | L | | | | | | | | |
| 2 | 431 | 7.4 | 34 | L | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 411 | 6.2 | 18 | L | | | | | | | | |
| 6 | 412 | 6.4 | 21 | L | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 393 | 6.6 | 97 | L | | | | | | | | |
| 12 | 389 | 10.6 | 37 | J | 12.3 | 35 | 318 | 7.0 | -7.0 | 5.9 | 3 | J |
| 13 | 390 | 11.1 | 30 | J | 11.7 | 39 | 324 | 7.2 | -6.1 | 6.5 | 1 | J |
| 14 | 391 | 10.7 | 40 | J | 11.9 | 36 | 324 | 7.5 | -6.4 | 5.8 | 3 | J |
| 15 | 390 | 9.3 | 33 | J | 12.2 | 25 | 328 | 9.1 | -6.6 | 3.8 | 1 | J |
| 16 | 385 | 8.8 | 31 | J | 12.3 | 21 | 323 | 8.9 | -7.5 | 2.5 | 2 | J |
| 17 | 373 | 7.9 | 34 | J | 13.7 | 10 | 306 | 7.3 | -10.2 | -0.8 | 4 | J |
| 18 | 371 | 9.6 | 24 | J | 13.3 | 4 | 303 | 6.8 | -10.1 | -2.7 | 4 | J |
| 19 | 376 | 10.5 | 32 | J | | | | | | | | |
| 20 | 372 | 12.1 | 32 | J | | | | | | | | |
| 21 | 370 | 14.2 | 29 | J | 9.3 | 23 | 299 | 3.8 | -7.6 | -0.2 | 4 | J |
| 22 | 360 | 11.2 | 34 | J | 10.0 | 15 | 292 | 3.3 | -8.4 | -1.9 | 3 | J |
| 23 | 366 | 14.0 | 26 | J | 8.6 | 52 | 309 | 3.0 | -6.3 | 3.5 | 3 | J |
| 24 | 371 | 12.7 | 19 | J | 8.7 | 59 | 337 | 4.1 | -5.2 | 5.5 | 1 | J |

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39

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 339 | 10.2 | 28 | J | 8.8 | -28 | 336 | 6.8 | -2.3 | -4.4 | 2 | J |
| 9 | 351 | 11.8 | 58 | J | 8.1 | -37 | 330 | 5.3 | -2.4 | -5.0 | 2 | J |
| 10 | 354 | 16.5 | 78 | J | 7.4 | -18 | 351 | 6.8 | -0.8 | -2.3 | 1 | J |
| 11 | 349 | 10.8 | 54 | J | 8.8 | -6 | 324 | 6.6 | -4.7 | -1.4 | 3 | J |
| 12 | 347 | 14.0 | 53 | J | 8.1 | -27 | 349 | 5.9 | -0.8 | -3.2 | 4 | J |
| 13 | 348 | 13.7 | 52 | J | 7.3 | 1 | 328 | 5.9 | -3.6 | -0.4 | 2 | J |
| 14 | 348 | 12.1 | 51 | J | 7.5 | -33 | 343 | 5.7 | -1.1 | -4.1 | 2 | J |
| 15 | 351 | 11.6 | 56 | J | 7.3 | -33 | 332 | 5.3 | -2.0 | -4.4 | 2 | J |
| 16 | 351 | 13.3 | 53 | J | 7.0 | -32 | 336 | 5.3 | -1.4 | -4.1 | 1 | J |
| 17 | 349 | 13.6 | 44 | J | 7.0 | -38 | 344 | 5.2 | -0.2 | -4.5 | 1 | J |
| 18 | 349 | 13.4 | 42 | J | 7.3 | -33 | 345 | 5.8 | -0.1 | -4.2 | 0 | J |
| 19 | | | | | | | | | | | | |
| 20 | 330 | 12.8 | 28 | J | 6.9 | -26 | 16 | 5.9 | 2.8 | -2.0 | 1 | J |
| 21 | 404 | 7.0 | 47 | J | 6.2 | -30 | 15 | 5.1 | 2.6 | -2.1 | 1 | J |
| 22 | 328 | 12.9 | 33 | J | 5.2 | -31 | 10 | 4.4 | 2.0 | -2.0 | 1 | J |
| 23 | 327 | 13.3 | 27 | J | 5.4 | -44 | 11 | 3.8 | 2.5 | -2.9 | 1 | J |
| 24 | | | | | | | | | | | | |

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40

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 10.6 | 23 | 27 | 8.5 | 2.4 | 5.4 | 2 | J |
| 5 | | | | | 10.6 | 7 | 42 | 7.7 | 6.1 | 3.6 | 2 | J |
| 6 | | | | | 10.2 | -37 | 22 | 6.6 | 4.1 | -4.4 | 5 | J |
| 7 | | | | | 10.3 | -33 | 12 | 8.4 | 3.0 | -5.0 | 1 | J |
| 8 | | | | | 10.1 | -51 | 20 | 5.8 | 3.5 | -7.1 | 3 | J |
| 9 | 332 | 10.7 | 16 | J | 10.2 | -61 | 1 | 4.9 | 1.4 | -8.7 | 1 | J |
| 10 | 333 | 10.4 | 16 | J | 10.4 | -63 | 16 | 4.4 | 2.4 | -8.8 | 2 | J |
| 11 | 334 | 11.8 | 16 | J | 10.1 | -63 | 355 | 4.5 | 0.6 | -8.8 | 2 | J |
| 12 | | | | | 9.5 | -67 | 5 | 3.6 | 1.4 | -8.5 | 2 | J |
| 13 | | | | | 10.5 | -57 | 30 | 5.0 | 4.1 | -8.3 | 1 | J |
| 14 | 347 | 16.2 | 19 | J | 9.6 | -45 | 39 | 5.2 | 5.3 | -5.9 | 2 | J |
| 15 | 343 | 16.3 | 19 | J | 9.7 | -25 | 52 | 5.2 | 7.4 | -2.5 | 2 | J |
| 16 | 336 | 16.2 | 15 | J | 9.9 | -26 | 70 | 3.0 | 9.0 | -2.1 | 2 | J |
| 17 | 337 | 20.8 | 19 | J | 8.3 | -39 | 77 | 1.3 | 6.7 | -2.8 | 4 | J |
| 18 | 338 | 24.4 | 24 | J | 6.7 | -68 | 84 | 0.3 | 4.3 | -4.7 | 2 | J |
| 19 | 337 | 23.4 | 15 | J | 8.8 | -55 | 91 | -0.1 | 7.4 | -4.6 | 2 | J |
| 20 | | | | | 9.7 | -56 | [illegible] | -1.0 | 8.2 | -4.9 | 1 | J |
| 21 | | | | | 9.6 | -54 | 158 | -5.1 | 5.4 | -5.7 | 2 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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41

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 320 | 20.0 | 28 | J | 8.9 | 19 | 89 | 0.1 | 6.0 | 6.5 | 1 | J |
| 3 | 324 | 26.0 | 19 | J | 8.6 | 25 | 93 | -0.4 | 5.3 | 6.6 | 1 | J |
| 4 | 320 | 32.5 | 17 | J | 6.6 | 10 | 67 | 2.2 | 4.4 | 2.9 | 3 | J |
| 5 | 316 | 31.0 | 16 | J | 7.8 | 15 | 80 | 1.3 | 6.1 | 4.3 | 2 | J |
| 6 | 318 | 32.0 | 17 | J | 8.4 | 12 | 89 | 0.1 | 6.8 | 3.7 | 3 | J |
| 7 | 316 | 34.0 | 16 | J | 7.8 | 8 | 84 | 0.8 | 7.0 | 2.8 | 2 | J |
| 8 | 315 | 30.7 | 15 | J | 7.9 | 8 | 75 | 2.0 | 7.0 | 2.4 | 2 | J |
| 9 | 312 | 30.8 | 14 | J | 7.4 | 13 | 85 | 0.6 | 6.6 | 2.6 | 2 | J |
| 10 | 309 | 34.6 | 14 | J | 6.8 | 24 | 85 | 0.5 | 5.7 | 3.5 | 1 | J |
| 11 | 308 | 34.6 | 15 | J | 6.2 | 33 | 93 | -0.3 | 4.7 | 3.9 | 1 | J |
| 12 | 320 | 22.7 | 20 | J | 8.2 | 1 | 113 | -3.1 | 7.2 | 1.1 | 2 | J |
| 13 | 308 | 24.2 | 22 | J | 6.7 | 76 | 60 | 0.6 | 0.4 | 5.2 | 4 | J |
| 14 | 336 | 25.9 | 16 | J | 6.5 | 75 | 162 | -1.5 | -0.5 | 5.8 | 3 | J |
| 15 | 329 | 32.8 | 24 | J | 4.8 | 14 | 154 | -4.1 | 1.7 | 1.5 | 1 | J |
| 16 | 329 | 30.7 | 24 | J | 5.1 | 28 | 170 | -4.1 | 0.1 | 2.3 | 2 | J |
| 17 | 320 | 24.3 | 20 | J | 4.7 | 43 | 136 | -1.4 | 0.7 | 2.2 | 4 | J |
| 18 | 316 | 23.2 | 24 | J | 5.0 | -67 | 42 | 1.4 | 2.8 | -3.8 | 1 | J |
| 19 | 336 | 18.7 | 16 | J | 7.5 | -17 | 117 | -3.0 | 6.1 | 0.5 | 3 | J |
| 20 | 336 | 19.1 | 19 | J | 7.7 | -5 | 121 | -3.8 | 6.0 | 2.2 | 1 | J |
| 21 | 342 | 14.6 | 19 | J | 9.0 | -13 | 115 | -3.7 | 8.0 | 2.0 | 1 | J |
| 22 | 342 | 14.5 | 20 | J | 8.9 | 1 | 119 | -4.2 | 6.5 | 3.9 | 2 | J |
| 23 | 348 | 10.8 | 16 | J | 9.3 | -2 | 113 | -3.6 | 7.5 | 4.0 | 1 | J |
| 24 | 354 | 12.6 | 22 | J | 8.9 | -13 | 122 | -4.5 | 7.2 | 2.0 | 1 | J |

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42

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 347 | 12.9 | 16 | J | 8.1 | 5 | 106 | -2.1 | 6.2 | 4.1 | 2 | J |
| 3 | | | | | 8.4 | 7 | 109 | -2.7 | 6.5 | 4.3 | 1 | J |
| 4 | 343 | 13.5 | 43 | J | 8.3 | 13 | 110 | -2.7 | 6.1 | 4.6 | 2 | J |
| 5 | 330 | 17.9 | 19 | J | 8.4 | 20 | 112 | -2.8 | 5.6 | 5.0 | 3 | J |
| 6 | 357 | 22.8 | 20 | J | 7.2 | -26 | 152 | -5.6 | 3.8 | -2.1 | 1 | J |
| 7 | 350 | 21.3 | 18 | J | 7.8 | -24 | 137 | -5.0 | 5.3 | -1.8 | 1 | J |
| 8 | 346 | 20.3 | 15 | J | 7.5 | -17 | 130 | -4.6 | 5.8 | -1.1 | 1 | J |
| 9 | 338 | 19.5 | 18 | J | 7.5 | -13 | 115 | -2.9 | 6.4 | -0.6 | 2 | J |
| 10 | 337 | 19.3 | 20 | J | 6.5 | -14 | 113 | -2.5 | 6.0 | -0.8 | 1 | J |
| 11 | 336 | 15.3 | 16 | J | 6.9 | 2 | 97 | -0.8 | 6.7 | 1.1 | 1 | J |
| 12 | 336 | 15.8 | 16 | J | 6.4 | 15 | 92 | -0.2 | 5.8 | 2.4 | 1 | J |
| 13 | 333 | 16.0 | 14 | J | 6.3 | 9 | 95 | -0.5 | 5.8 | 1.8 | 1 | J |
| 14 | 331 | 16.9 | 12 | J | 6.3 | 8 | 91 | -0.1 | 6.0 | 2.0 | 0 | J |
| 15 | 334 | 16.3 | 15 | J | 5.9 | -6 | 102 | -1.2 | 5.7 | 0.6 | 1 | J |
| 16 | 331 | 15.0 | 14 | J | 5.5 | -7 | 98 | -0.7 | 4.8 | 0.7 | 2 | J |
| 17 | 327 | 16.6 | 16 | J | 5.1 | 8 | 91 | -0.1 | 4.4 | 2.1 | 2 | J |
| 18 | 324 | 16.2 | 19 | J | 4.1 | 14 | 102 | -0.6 | 2.6 | 1.8 | 3 | J |
| 19 | 324 | 18.5 | 16 | J | 3.5 | -12 | 114 | -1.3 | 3.0 | 0.6 | 1 | J |
| 20 | 325 | 15.1 | 21 | J | 3.9 | -2 | 76 | 0.8 | 3.1 | 1.4 | 2 | J |
| 21 | 308 | 14.4 | 22 | J | 4.4 | 4 | 57 | 2.2 | 2.9 | 1.9 | 2 | J |
| 22 | 306 | 16.3 | 23 | J | 3.7 | 7 | 67 | 1.3 | 2.4 | 1.9 | 2 | J |
| 23 | 299 | 14.9 | 23 | J | 3.8 | 16 | 41 | 2.5 | 1.4 | 2.0 | 2 | J |
| 24 | 303 | 17.7 | 22 | J | 3.4 | 16 | 76 | 0.7 | 2.1 | 2.3 | 1 | J |

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43

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 300 | 14.7 | 17 | J | 5.1 | 7 | 78 | 1.0 | 3.8 | 2.9 | 1 | J |
| 2 | 303 | 17.2 | 19 | J | 5.0 | 9 | 95 | -0.4 | 3.8 | 2.9 | 2 | J |
| 3 | 281 | 21.9 | 18 | J | 5.2 | 5 | 33 | 4.0 | 2.1 | 1.5 | 2 | J |
| 4 | 30. | 22.3 | 22 | J | 5.7 | 38 | 96 | -0.4 | 2.5 | 4.7 | 2 | J |
| 5 | 295 | 21.0 | 21 | J | 5.5 | 1 | 47 | 3.1 | 3.1 | 1.2 | 3 | J |
| 6 | 295 | 23.8 | 22 | J | 5.4 | -21 | 30 | 2.7 | 1.8 | -0.7 | 5 | J |
| 7 | 294 | 17.7 | 14 | J | 7.4 | -43 | 348 | 5.2 | 0.1 | -5.1 | 1 | J |
| 8 | 293 | 18.7 | 15 | J | 7.0 | 22 | 45 | 2.5 | 2.2 | 1.9 | 6 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 305 | 23.7 | 12 | J | 7.1 | 62 | 169 | -3.3 | -0.2 | 6.3 | 0 | J |
| 13 | 302 | 25.2 | 14 | J | 6.4 | 62 | 170 | -3.0 | -0.3 | 5.7 | 1 | J |
| 14 | 303 | 25.8 | 16 | J | 5.6 | 57 | 248 | -0.4 | -1.4 | 1.5 | 5 | J |
| 15 | 298 | 32.3 | 17 | J | 4.5 | 2 | 218 | -3.4 | -2.6 | -0.4 | 1 | J |
| 16 | 297 | 32.4 | 16 | J | 4.6 | -21 | 225 | -3.0 | -2.4 | -2.3 | 1 | J |
| 17 | 300 | 28.3 | 16 | J | 5.6 | -33 | 226 | -3.2 | -2.2 | -3.9 | 1 | J |
| 18 | 300 | 23.5 | 17 | J | 6.6 | -29 | 241 | -2.8 | -3.6 | -4.8 | 1 | J |
| 19 | 296 | 19.4 | 13 | J | 7.8 | -17 | 256 | -1.8 | -5.5 | -4.9 | 2 | J |
| 20 | 298 | 23.2 | 13 | J | 7.5 | -17 | 256 | -1.7 | -5.2 | -5.0 | 1 | J |
| 21 | 299 | 23.7 | 13 | J | 7.6 | -10 | 252 | -2.3 | -5.6 | -4.6 | 1 | J |
| 22 | 300 | 27.4 | 17 | J | 6.8 | 1 | 255 | -1.5 | -5.0 | -2.8 | 3 | J |
| 23 | 295 | 26.8 | 21 | J | 6.6 | 61 | 280 | 0.5 | -5.4 | 3.2 | 2 | J |
| 24 | 234 | 24.1 | 21 | J | 7.1 | 51 | 318 | 3.1 | -5.0 | 3.0 | 3 | J |

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44

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 299 | 29.1 | 18 | J | 7.3 | -3 | 254 | -2.0 | -5.7 | -3.8 | 2 | J |
| 2 | 301 | 33.1 | 19 | J | 7.2 | -16 | 238 | -3.5 | -4.0 | -4.4 | 2 | J |
| 3 | 304 | 38.8 | 20 | J | 5.9 | -31 | 223 | -3.6 | -1.7 | -4.2 | 1 | J |
| 4 | 297 | 39.3 | 21 | J | 6.8 | 8 | 237 | -3.6 | -5.4 | -1.4 | 1 | J |
| 5 | 284 | 31.1 | 20 | J | 7.4 | 21 | 271 | 0.1 | -7.1 | 0.0 | 2 | J |
| 6 | 291 | 34.9 | 20 | J | 7.1 | 23 | 257 | -1.4 | -6.4 | 0.7 | 3 | J |
| 7 | 299 | 44.8 | 19 | J | 7.8 | 21 | 253 | -2.1 | -7.2 | 1.0 | 2 | J |
| 8 | 298 | 38.6 | 18 | J | 9.4 | 18 | 264 | -0.9 | -9.1 | 1.0 | 2 | J |
| 9 | 303 | 43.1 | 16 | J | 10.5 | 33 | 257 | -1.9 | -9.1 | 4.1 | 3 | J |
| 10 | 308 | 22.7 | 42 | J | 11.0 | 73 | 178 | -2.8 | -1.2 | 9.2 | 5 | J |
| 11 | 313 | 12.5 | 48 | J | 11.8 | 54 | 125 | -3.2 | 3.5 | 8.1 | 7 | J |
| 12 | 318 | 11.2 | 52 | J | 11.5 | 40 | 119 | -4.2 | 6.4 | 8.2 | 3 | J |
| 13 | 309 | 9.6 | 44 | J | 11.7 | 25 | 112 | -3.5 | 8.7 | 6.3 | 3 | J |
| 14 | 313 | 10.8 | 40 | J | 12.0 | 10 | 116 | -5.1 | 10.0 | 4.0 | 2 | J |
| 15 | 307 | 9.2 | 41 | J | 12.3 | -16 | 105 | -2.9 | 11.2 | -0.7 | 4 | J |
| 16 | 311 | 10.3 | 37 | J | 11.7 | -16 | 102 | -2.2 | 10.8 | -0.2 | 4 | J |
| 17 | 321 | 13.0 | 37 | J | 10.9 | -41 | 68 | 2.7 | 8.2 | -3.8 | 6 | J |
| 18 | 329 | 14.4 | 40 | J | 10.3 | -33 | 63 | 3.6 | 8.4 | -2.2 | 4 | J |
| 19 | 342 | 14.3 | 47 | J | 9.6 | -31 | 56 | 4.3 | 7.7 | -1.6 | 3 | J |
| 20 | 345 | 14.8 | 55 | J | 9.8 | -44 | 52 | 3.8 | 7.0 | -3.1 | 5 | J |
| 21 | 335 | 13.1 | 60 | J | 8.1 | -14 | 108 | -2.3 | 7.1 | 1.8 | 3 | J |
| 22 | 328 | 11.2 | 65 | J | 8.0 | 28 | 138 | -5.0 | 2.1 | 5.3 | 2 | J |
| 23 | 324 | 11.2 | 66 | J | 7.1 | 25 | 138 | -4.4 | 1.9 | 4.4 | 3 | J |
| 24 | 343 | 11.3 | 81 | J | 6.0 | -26 | 72 | 1.4 | 4.7 | 0.3 | 3 | J |

## FEB. 14, 1978

45

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 11.9 | 69 | J | 7.2 | -32 | 351 | 5.8 | 1.1 | -3.6 | 2 | J |
| 2 | 360 | 12.9 | 50 | J | 7.5 | -14 | 345 | 6.6 | -0.7 | -2.3 | 3 | J |
| 3 | 337 | 14.3 | 115 | L | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 392 | 13.2 | 80 | L | | | | | | | | |
| 14 | 402 | 10.8 | 138 | L | | | | | | | | |
| 15 | 416 | 11.7 | 153 | L | | | | | | | | |
| 16 | 417 | 11.5 | 137 | L | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

## FEB. 15, 1978

46

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 633 | 0.0 | 0 | H | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 627 | 0.0 | 0 | H | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 680 | 14.9 | 199 | L | | | | | | | | |
| 10 | 676 | 15.6 | 180 | L | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 571 | 2.8 | 8 | L | | | | | | | | |
| 17 | 559 | 2.8 | 9 | L | | | | | | | | |
| 18 | 557 | 3.8 | 12 | L | | | | | | | | |
| 19 | 542 | 2.3 | 14 | L | | | | | | | | |
| 20 | 532 | 1.7 | 11 | L | | | | | | | | |
| 21 | 525 | 1.3 | 13 | L | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 537 | 0.0 | 0 | H | | | | | | | | |
| 24 | | | | | | | | | | | | |

## FEB. 16, 1978

47

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
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| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 445 | 1.8 | 96 | L | | | | | | | | |
| 24 | 448 | 1.4 | 86 | L | | | | | | | | |

## FEB. 17, 1978

48

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 468 | 0.0 | 0 | H | | | | | | | | |
| 2 | 374 | 1.7 | 119 | L | | | | | | | | |
| 3 | 420 | 3.0 | 72 | L | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 399 | 0.0 | 0 | H | | | | | | | | |
| 7 | 433 | 0.0 | 0 | H | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 437 | 0.0 | 0 | H | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 437 | 0.0 | 0 | H | | | | | | | | |
| 14 | 393 | 0.0 | 0 | H | | | | | | | | |
| 15 | 413 | 4.3 | 112 | L | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 448 | 2.8 | 66 | L | | | | | | | | |
| 20 | 440 | 2.6 | 67 | L | | | | | | | | |
| 21 | 438 | 2.8 | 65 | L | | | | | | | | |
| 22 | 450 | 2.5 | 68 | L | | | | | | | | |
| 23 | 450 | 2.6 | 52 | L | | | | | | | | |
| 24 | 450 | 2.4 | 56 | L | | | | | | | | |

## FEB. 18, 1978

49

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 449 | 2.2 | 55 | L | | | | | | | | |
| 2 | 455 | 2.4 | 51 | L | | | | | | | | |
| 3 | 450 | 2.8 | 53 | L | | | | | | | | |
| 4 | 446 | 3.3 | 62 | L | | | | | | | | |
| 5 | 484 | 0.0 | 0 | H | | | | | | | | |
| 6 | 457 | 3.8 | 65 | L | | | | | | | | |
| 7 | 429 | 3.7 | 65 | L | | | | | | | | |
| 8 | 417 | 3.5 | 56 | L | | | | | | | | |
| 9 | 409 | 3.5 | 53 | L | | | | | | | | |
| 10 | 425 | 3.7 | 79 | L | | | | | | | | |
| 11 | 461 | 0.0 | 0 | H | | | | | | | | |
| 12 | 393 | 0.0 | 0 | H | | | | | | | | |
| 13 | 403 | 3.7 | 79 | L | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 454 | 0.0 | 0 | H | | | | | | | | |
| 16 | 441 | 4.7 | 93 | L | | | | | | | | |
| 17 | 420 | 5.3 | 112 | L | | | | | | | | |
| 18 | 429 | 0.0 | 0 | H | | | | | | | | |
| 19 | 423 | 4.5 | 102 | L | | | | | | | | |
| 20 | 396 | 4.4 | 87 | L | | | | | | | | |
| 21 | 399 | 4.0 | 87 | L | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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OF POOR QUALITY

FEB. 19, 1978

50

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 407 | 4.5 | 79 | L | | | | | | | | |
| 2 | 415 | 4.1 | 73 | L | | | | | | | | |
| 3 | 411 | 0.0 | 0 | H | | | | | | | | |
| 4 | 391 | 4.0 | 106 | L | | | | | | | | |
| 5 | 386 | 5.8 | 61 | L | | | | | | | | |
| 6 | 387 | 6.6 | 66 | L | | | | | | | | |
| 7 | 378 | 5.7 | 57 | L | | | | | | | | |
| 8 | 367 | 5.6 | 43 | L | | | | | | | | |
| 9 | 366 | 6.1 | 44 | L | | | | | | | | |
| 10 | 376 | 0.0 | 0 | H | | | | | | | | |
| 11 | 392 | 5.9 | 48 | L | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 386 | 8.1 | 54 | L | | | | | | | | |
| 18 | 375 | 7.2 | 50 | L | | | | | | | | |
| 19 | 376 | 6.8 | 50 | L | | | | | | | | |
| 20 | 380 | 6.4 | 46 | L | | | | | | | | |
| 21 | 380 | 5.9 | 50 | L | | | | | | | | |
| 22 | 387 | 5.7 | 47 | L | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 383 | 8.1 | 51 | L | | | | | | | | |

FEB. 20, 1978

51

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 379 | 7.8 | 51 | L | | | | | | | | |
| 2 | 374 | 7.7 | 51 | L | | | | | | | | |
| 3 | 372 | 7.8 | 45 | L | | | | | | | | |
| 4 | 372 | 6.6 | 41 | L | | | | | | | | |
| 5 | 376 | 7.3 | 48 | L | | | | | | | | |
| 6 | 371 | 6.5 | 46 | L | | | | | | | | |
| 7 | 371 | 6.4 | 33 | L | | | | | | | | |
| 8 | 360 | 6.3 | 35 | L | | | | | | | | |
| 9 | 356 | 6.5 | 54 | L | | | | | | | | |
| 10 | 360 | 6.0 | 39 | L | | | | | | | | |
| 11 | 369 | 4.6 | 61 | L | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 341 | 6.0 | 54 | L | | | | | | | | |
| 15 | 340 | 7.3 | 55 | J | 5.1 | 12 | 318 | 3.1 | -2.9 | 0.2 | 2 | J |
| 16 | 332 | 7.2 | 37 | J | 4.9 | -6 | 333 | 4.0 | -1.8 | -1.0 | 2 | J |
| 17 | 348 | 7.5 | 40 | J | 5.6 | -26 | 298 | 2.3 | -3.3 | -3.7 | 1 | J |
| 18 | 348 | 7.8 | 40 | J | 5.6 | -37 | 303 | 2.4 | -2.2 | -4.6 | 1 | J |
| 19 | 325 | 7.7 | 37 | J | 5.2 | -12 | 337 | 4.5 | -1.3 | -1.8 | 1 | J |
| 20 | 325 | 7.6 | 37 | J | 5.2 | -2 | 341 | 4.8 | -1.4 | -0.9 | 1 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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52

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | 5.5 | 3 | 274 | 0.3 | -4.5 | -2.1 | 2 | J |
| 4 | 361 | 16.4 | 20 | J | 5.4 | -5 | 277 | 0.6 | -4.2 | -2.5 | 2 | J |
| 5 | 396 | 9.8 | 24 | J | 6.6 | 39 | 288 | 1.5 | -5.8 | 1.9 | 2 | J |
| 6 | 353 | 10.7 | 26 | J | 5.8 | 31 | 282 | 0.9 | -4.7 | 1.0 | 3 | J |
| 7 | 354 | 9.0 | 21 | J | 6.5 | 50 | 310 | 2.4 | -4.0 | 3.5 | 3 | J |
| 8 | 349 | 10.5 | 20 | J | 7.1 | 48 | 312 | 3.1 | -4.5 | 4.2 | 1 | J |
| 9 | 349 | 11.2 | 24 | J | 6.4 | 59 | 334 | 3.0 | -2.5 | 5.1 | 1 | J |
| 10 | | | | | 5.7 | 52 | 336 | 3.0 | -2.0 | 3.9 | 2 | J |
| 11 | | | | | 7.4 | -25 | 350 | 6.3 | -0.6 | -3.1 | 3 | J |
| 12 | 348 | 11.4 | 33 | J | 7.6 | 19 | 327 | 4.7 | -3.3 | 1.4 | 5 | J |
| 13 | 350 | 19.9 | 24 | J | 5.1 | -16 | 322 | 3.2 | -2.2 | -1.6 | 3 | J |
| 14 | 335 | 29.4 | 16 | J | 2.7 | -20 | 276 | 0.1 | -1.0 | -0.6 | 3 | J |
| 15 | 338 | 23.2 | 14 | J | 6.7 | -74 | 350 | 1.8 | 1.3 | -6.3 | 0 | J |
| 16 | 339 | 28.9 | 18 | J | 4.8 | -71 | 350 | 1.5 | 1.1 | -4.3 | 1 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 364 | 10.0 | 15 | J | 10.6 | -61 | 77 | 1.1 | 9.1 | -5.2 | 1 | J |
| 23 | 355 | 9.5 | 23 | J | 10.2 | -58 | 93 | -0.3 | 9.1 | -4.3 | 1 | J |
| 24 | 368 | 12.7 | 19 | J | 9.8 | -51 | 69 | 2.2 | 8.9 | -3.3 | 1 | J |

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53

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 359 | 10.4 | 20 | J | 10.1 | -44 | 75 | 1.9 | 9.6 | -2.2 | 1 | J |
| 2 | 359 | 10.0 | 20 | J | 10.2 | -52 | 81 | 1.0 | 9.3 | -3.8 | 1 | J |
| 3 | | | | | | | | | | | | |
| 4 | 351 | 10.8 | 25 | J | 11.1 | -44 | 93 | -0.4 | 10.5 | -3.5 | 2 | J |
| 5 | 353 | 13.4 | 22 | J | 12.9 | -40 | 107 | -2.9 | 11.9 | -4.1 | 1 | J |
| 6 | 355 | 17.7 | 24 | J | 13.1 | -37 | 106 | -2.8 | 11.9 | -4.1 | 2 | J |
| 7 | 361 | 20.1 | 24 | J | 12.2 | -8 | 125 | -6.7 | 9.6 | 1.1 | 3 | J |
| 8 | 359 | 20.8 | 26 | J | 11.7 | 14 | 145 | -9.1 | 5.6 | 4.2 | 2 | J |
| 9 | 357 | 18.1 | 36 | J | 12.5 | 6 | 126 | -7.2 | 9.4 | 3.2 | 3 | J |
| 10 | 356 | 19.5 | 43 | J | 12.5 | 16 | 129 | -7.4 | 8.4 | 5.0 | 2 | J |
| 11 | 359 | 22.6 | 42 | J | 11.9 | 17 | 138 | -8.0 | 6.5 | 4.4 | 4 | J |
| 12 | 356 | 21.5 | 49 | J | 13.8 | -4 | 133 | -9.1 | 9.8 | 0.8 | 3 | J |
| 13 | 363 | 24.1 | 37 | J | 13.8 | -8 | 121 | -6.9 | 11.6 | 0.3 | 3 | J |
| 14 | 361 | 23.8 | 39 | J | 13.6 | -6 | 123 | -6.9 | 10.7 | 1.0 | 5 | J |
| 15 | 356 | 21.1 | 42 | J | 14.5 | -37 | 127 | -6.6 | 10.6 | -5.8 | 4 | J |
| 16 | 365 | 25.4 | 22 | J | 14.3 | -46 | 105 | -2.5 | 12.0 | -6.9 | 2 | J |
| 17 | 363 | 17.0 | 25 | J | 14.3 | -40 | 101 | -2.0 | 12.7 | -4.7 | 4 | J |
| 18 | 386 | 15.3 | 80 | J | 10.7 | -5 | 124 | -4.3 | 6.1 | 1.9 | 8 | J |
| 19 | 438 | 14.9 | 154 | J | 8.1 | -52 | 34 | 3.9 | 5.0 | -4.3 | 3 | J |
| 20 | 431 | 12.6 | 145 | J | 10.0 | 6 | 130 | -4.5 | 4.4 | 3.2 | 7 | J |
| 21 | 451 | 12.5 | 130 | J | 10.5 | -48 | 111 | -1.8 | 6.7 | -2.3 | 8 | J |
| 22 | 460 | 14.5 | 154 | J | 9.0 | 36 | 150 | -4.4 | 0.2 | 4.5 | 6 | J |
| 23 | 465 | 12.6 | 119 | J | 6.6 | -2 | 245 | -2.3 | -4.1 | -2.9 | 4 | J |
| 24 | 455 | 10.7 | 87 | J | 7.2 | -12 | 184 | -6.5 | 0.4 | -1.4 | 3 | J |

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54

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 460 | 9.7 | 88 | J | 7.4 | 8 | 177 | -7.0 | -0.2 | 1.0 | 2 | J |
| 2 | 466 | 10.1 | 111 | J | 7.7 | 19 | 183 | -7.2 | -1.6 | 1.9 | 1 | J |
| 3 | 466 | 9.8 | 93 | J | 8.0 | 24 | 172 | -7.1 | -0.6 | 3.3 | 2 | J |
| 4 | 468 | 8.6 | 91 | J | 8.8 | 38 | 186 | -6.8 | -3.0 | 4.5 | 1 | J |
| 5 | 475 | 8.9 | 144 | J | 7.8 | 33 | 179 | -6.5 | -1.5 | 3.9 | 1 | J |
| 6 | 504 | 8.4 | 135 | J | 5.6 | -3 | 148 | -4.1 | 2.5 | 0.6 | 3 | J |
| 7 | 514 | 8.2 | 160 | J | 6.9 | 46 | 189 | -4.6 | -2.1 | 4.4 | 2 | J |
| 8 | 503 | 7.6 | 118 | J | 7.4 | 36 | 165 | -5.4 | 0.4 | 4.3 | 2 | J |
| 9 | 497 | 7.8 | 114 | J | 7.0 | 12 | 161 | -5.7 | 1.7 | 1.7 | 3 | J |
| 10 | 503 | 8.5 | 119 | J | 7.5 | 17 | 165 | -6.2 | 1.3 | 2.2 | 3 | J |
| 11 | 489 | 7.6 | 84 | J | 7.4 | 7 | 159 | -6.6 | 2.3 | 1.3 | 2 | J |
| 12 | 480 | 8.1 | 120 | J | 8.1 | 10 | 155 | -7.1 | 3.0 | 1.9 | 1 | J |
| 13 | 474 | 7.2 | 109 | J | 7.2 | 3 | 155 | -6.3 | 2.8 | 0.9 | 1 | J |
| 14 | 468 | 9.3 | 144 | J | 8.2 | -8 | 164 | -7.6 | 2.4 | -0.6 | 2 | J |
| 15 | 462 | 8.5 | 136 | J | 8.2 | 22 | 168 | -7.2 | 0.7 | 3.3 | 2 | J |
| 16 | 479 | 8.8 | 163 | J | 9.3 | 25 | 147 | -7.0 | 3.2 | 5.1 | 1 | J |
| 17 | 465 | 8.1 | 136 | J | 8.3 | 16 | 131 | -5.0 | 4.6 | 4.0 | 2 | J |
| 18 | 457 | 7.2 | 78 | J | 8.8 | 19 | 148 | -6.9 | 2.8 | 4.3 | 2 | J |
| 19 | 448 | 5.9 | 77 | J | 8.1 | 8 | 156 | -7.1 | 2.3 | 2.4 | 2 | J |
| 20 | 448 | 5.7 | 119 | J | 8.3 | -1 | 136 | -5.7 | 4.9 | 2.5 | 3 | J |
| 21 | 470 | 6.5 | 178 | J | 7.6 | -7 | 121 | -3.5 | 5.5 | 2.3 | 3 | J |
| 22 | 469 | 7.7 | 222 | J | 6.7 | 8 | 116 | -2.4 | 3.8 | 3.3 | 4 | J |
| 23 | 479 | 7.4 | 205 | J | 6.4 | -31 | 85 | 0.4 | 5.9 | 0.2 | 2 | J |
| 24 | 489 | 6.5 | 227 | J | 4.7 | -28 | 84 | 0.3 | 3.6 | 0.3 | 3 | J |

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55

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 465 | 6.2 | 184 | J | 4.8 | 3 | 154 | -3.8 | 1.4 | 1.2 | 2 | J |
| 2 | 470 | 6.0 | 163 | J | 5.0 | 16 | 213 | -3.8 | -2.8 | -0.1 | 2 | J |
| 3 | 477 | 5.1 | 170 | J | 3.8 | -14 | 95 | -0.3 | 3.2 | 0.8 | 2 | J |
| 4 | 485 | 4.4 | 113 | J | 5.0 | 26 | 58 | 2.1 | 2.2 | 3.3 | 2 | J |
| 5 | 484 | 4.0 | 76 | J | 5.7 | 18 | 49 | 3.6 | 3.1 | 3.2 | 1 | J |
| 6 | 469 | 4.2 | 75 | J | 4.6 | 9 | 49 | 2.9 | 2.9 | 1.8 | 1 | J |
| 7 | 463 | 3.6 | 64 | J | 4.4 | 21 | 54 | 2.4 | 2.7 | 2.5 | 1 | J |
| 8 | 451 | 3.9 | 66 | J | 3.9 | -19 | 71 | 1.0 | 3.0 | -0.3 | 2 | J |
| 9 | 479 | 3.6 | 60 | J | 3.7 | 3 | 44 | 2.6 | 2.4 | 0.7 | 1 | J |
| 10 | 438 | 6.2 | 57 | J | 4.9 | -4 | 102 | -1.0 | 4.5 | 0.5 | 2 | J |
| 11 | 439 | 7.5 | 62 | J | 3.8 | -58 | 102 | -0.3 | 1.8 | -2.1 | 3 | J |
| 12 | | | | | | | | | | | | |
| 13 | 428 | 7.0 | 69 | J | 4.1 | -29 | 122 | -1.8 | 3.1 | -1.3 | 2 | J |
| 14 | 426 | 6.8 | 52 | J | 4.4 | -18 | 115 | -1.7 | 3.9 | -0.5 | 1 | J |
| 15 | 417 | 9.0 | 27 | J | 4.7 | -22 | 123 | -2.3 | 3.9 | -0.7 | 1 | J |
| 16 | 397 | 9.4 | 19 | J | 4.6 | -13 | 123 | -2.4 | 3.8 | 0.1 | 1 | J |
| 17 | 385 | 10.5 | 22 | J | 4.6 | -6 | 104 | -1.1 | 4.2 | 1.1 | 1 | J |
| 18 | 375 | 12.6 | 17 | J | 4.2 | 3 | 106 | -1.1 | 3.5 | 1.8 | 1 | J |
| 19 | 369 | 11.9 | 15 | J | 3.9 | 17 | 95 | -0.3 | 2.8 | 2.6 | 1 | J |
| 20 | 360 | 10.7 | 19 | J | 3.8 | 22 | 86 | 0.2 | 2.3 | 2.9 | 1 | J |
| 21 | 357 | 12.0 | 16 | J | 2.8 | 34 | 327 | 1.9 | -1.8 | 0.7 | 1 | J |
| 22 | 355 | 12.9 | 16 | J | 2.5 | 39 | 332 | 1.6 | -1.5 | 0.8 | 1 | J |
| 23 | 347 | 12.5 | 21 | J | 2.7 | 24 | 23 | 2.2 | 0.2 | 1.4 | 0 | J |
| 24 | 346 | 11.9 | 21 | J | 2.7 | 46 | 329 | 1.2 | -1.4 | 0.8 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 347 | 11.2 | 20 | J | 2.7 | -2 | 263 | -0.3 | -2.0 | -1.3 | 1 | J |
| 2 | 342 | 12.1 | 16 | J | 2.8 | 70 | 304 | 0.3 | -1.2 | 1.1 | 2 | J |
| 3 | | | | | | | | | | | | |
| 4 | 342 | 14.3 | 18 | J | 4.0 | 19 | 258 | -0.8 | -3.8 | -0.4 | 1 | J |
| 5 | 344 | 13.5 | 21 | J | 5.1 | -12 | 257 | -1.1 | -3.8 | -2.7 | 2 | J |
| 6 | | | | | | | | | | | | |
| 7 | 335 | 14.7 | 18 | J | 3.9 | -19 | 290 | 1.2 | -2.9 | -2.2 | 1 | J |
| 8 | 334 | 15.1 | 21 | J | 3.6 | -35 | 324 | 2.3 | -1.1 | -2.3 | 1 | J |
| 9 | 330 | 16.7 | 21 | J | 3.0 | -46 | 28 | 1.6 | 1.2 | -1.7 | 1 | J |
| 10 | 327 | 14.9 | 20 | J | 3.5 | -24 | 74 | 0.7 | 2.7 | -0.7 | 2 | J |
| 11 | 325 | 16.0 | 16 | J | 4.5 | -29 | 60 | 1.9 | 3.6 | -1.5 | 1 | J |
| 12 | 331 | 15.1 | 11 | J | 4.8 | -21 | 80 | 0.8 | 4.6 | -0.9 | 1 | J |
| 13 | 339 | 12.7 | 16 | J | 4.5 | -13 | 92 | -0.1 | 4.4 | -0.1 | 1 | J |
| 14 | 342 | 12.4 | 18 | J | 4.5 | 8 | 89 | 0.1 | 4.1 | 1.6 | 1 | J |
| 15 | 344 | 12.5 | 18 | J | 4.2 | 13 | 69 | 1.4 | 3.4 | 1.9 | 1 | J |
| 16 | 344 | 12.9 | 22 | J | 4.8 | 7 | 65 | 1.9 | 3.8 | 1.8 | 1 | J |
| 17 | 336 | 13.3 | 19 | J | 4.5 | 1 | 82 | 0.6 | 4.0 | 1.6 | 1 | J |
| 18 | 336 | 14.8 | 21 | J | 3.9 | 14 | 79 | 0.7 | 2.9 | 2.2 | 1 | J |
| 19 | 345 | 16.4 | 31 | J | 3.5 | 11 | 89 | 0.0 | 2.1 | 1.6 | 2 | J |
| 20 | 397 | 30.3 | 145 | J | 10.3 | 61 | 313 | 2.7 | -5.9 | 4.8 | 9 | J |
| 21 | 405 | 43.0 | 180 | J | 12.8 | -18 | 333 | 9.7 | -2.4 | -5.6 | 6 | J |
| 22 | 410 | 44.1 | 100 | J | 15.7 | -61 | 35 | 5.8 | 10.4 | -8.6 | 6 | J |
| 23 | 411 | 60.7 | 41 | J | 14.9 | 32 | 157 | -11.2 | -0.2 | 8.9 | 5 | J |
| 24 | 406 | 56.9 | 40 | J | 15.1 | 57 | 200 | -7.7 | -9.2 | 9.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 436 | 23.6 | 216 | J | 20.6 | -46 | 344 | 11.4 | 3.8 | -12.1 | 12 | J |
| 2 | 520 | 11.1 | 262 | J | 21.7 | -27 | 107 | -3.1 | 11.4 | 0.6 | 18 | J |
| 3 | 500 | 11.0 | 252 | J | 17.3 | 3 | 332 | 9.0 | -4.4 | -1.8 | 14 | J |
| 4 | 531 | 13.1 | 196 | J | 17.3 | 2 | 295 | 7.1 | -13.8 | -6.1 | 4 | J |
| 5 | 579 | 8.7 | 232 | J | 18.0 | 17 | 290 | 5.8 | -16.8 | -1.5 | 3 | J |
| 6 | 635 | 6.9 | 199 | J | 15.0 | 30 | 288 | 3.9 | -13.7 | 2.8 | 4 | J |
| 7 | 635 | 7.4 | 311 | J | 13.9 | 32 | 293 | 4.0 | -11.0 | 3.4 | 7 | J |
| 8 | 628 | 8.4 | 430 | J | 11.5 | 27 | 304 | 5.3 | -8.9 | 2.8 | 4 | J |
| 9 | 633 | 8.6 | 375 | J | 11.0 | 17 | 302 | 4.7 | -7.9 | 1.1 | 6 | J |
| 10 | 629 | 7.6 | 329 | J | 11.6 | 34 | 341 | 7.8 | -3.7 | 5.0 | 6 | J |
| 11 | 641 | 7.7 | 301 | J | 11.7 | 30 | 306 | 5.1 | -7.9 | 3.7 | 6 | J |
| 12 | 651 | 8.7 | 332 | J | 11.7 | 19 | 284 | 1.9 | -7.8 | 1.2 | 8 | J |
| 13 | 641 | 8.6 | 343 | J | 10.7 | -63 | 326 | 2.0 | -0.4 | -4.8 | 9 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 673 | 0.0 | 0 | H | | | | | | | | |
| 19 | 714 | 0.0 | 0 | H | | | | | | | | |
| 20 | 656 | 3.5 | 210 | L | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 647 | 2.7 | 222 | L | | | | | | | | |
| 23 | 650 | 2.5 | 209 | L | | | | | | | | |
| 24 | | | | | | | | | | | | |

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HR  VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF   VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
              1000  SC MAGN LAT LON                     SC              1000  SC MAGN LAT LON                     SC

                       FEB. 27, 1978                    58                        FEB. 28, 1978                     59

 1                                                            606  6.1  231  L
 2                                                            613  5.4  195  L
 3  599  2.2  158  L                                          640  5.3  190  L
 4  590  2.2  135  L
 5                                                            627  0.0    0  H
 6                                                            601  4.8  141  L
 7                                                            564  4.5  128  L
 8                                                            596  0.0    0  H
 9
10
11                                                            601  6.2  171  L
12
13                                                            607  7.2  189  L
14                                                            608  6.9  208  L
15                                                            598  6.6  202  L
16
17
18                                                            570  7.8  171  L
19                                                            559  8.1  176  L
20  624  0.0    0  H                                          558  8.7  193  L
21  600  6.4  217  L                                          555  8.0  220  L
22  599  6.4  220  L                                          574  8.0  234  L
23  593  6.9  225  L                                          569  0.0    0  H
24

                       MAR.  1, 1978                    60                        MAR.  2, 1978                     61

 1  598  5.1  192  L
 2  600  4.9  172  L
 3  623  5.1  184  L
 4  612  5.3  156  L                                          542  8.0  137  L
 5  605  5.3  172  L
 6
 7  604  5.1  196  L                                          546  7.7  186  L
 8  617  0.0    0  H                                          552  7.1  176  L
 9  615  5.7  233  L                                          547  7.1  148  L
10  625  7.6  231  L                                          568  6.0  145  L
11  619  0.0    0  H                                          574  7.0  121  L
12  633  7.9  220  L                                          594  0.0    0  H
13                                                            563  7.1  138  L
14                                                            580  0.0    0  H
15  670  4.9  201  L                                          562  0.0    0  H
16  665  0.0    0  H                                          588  6.3  225  L
17  624  0.0    0  H                                          611  6.3  195  L
18                                                            634  6.7  204  L
19
20  595  6.1  132  L                                          619  7.1  222  L
21  584  6.7  118  L                                          605  6.7  190  L
22  593  6.3  118  L                                          611  7.2  214  L
23  589  6.2  121  L                                          614  7.1  211  L
24

                       MAR.  3, 1978                    62                        MAR.  4, 1978                     63

 1  605  7.1  193  L                                          485  8.0   15  L
 2  598  7.4  185  L                                          480  8.2   16  L
 3  616  0.0    0  H                                          478 11.3   17  L
 4  613  0.0    0  H                                          473 11.3   18  L
 5                                                            476 17.1   16  L
 6                                                            463  8.6   21  L
 7                                                            458  0.0    0  H
 8  559  4.5  118  L
 9  551  4.9  112  L
10  532  4.2  102  L
11  527  4.3  103  L
12  484  0.0    0  H
13  537  0.0    0  H
14  502  5.3   57  L
15  529  0.0    0  H                                          412  6.4   16  L
16  526  0.0    0  H                                          406  6.0   15  L
17                                                            414  7.1   16  L
18  517  0.0    0  H                                          411  5.2   16  L
19  505  3.7   62  L                                          407  5.6   17  L
20  496  4.2   59  L                                          410  5.4   17  L
21  491  3.5   73  L                                          408  9.2   20  J   5.0  53  88   0.1   0.4   4.9  1  J
22  501  4.2   52  L                                          396  6.5   17  L   5.2  54  82   0.4   8.2   5.1  0  J
23  510  0.0    0  H                                          392  7.5   20  L
24  491  8.1   14  L                                          394  9.1   21  L

                       MAR.  5, 1978                    64                        MAR.  6, 1978                     65

 1  383  7.5   21  J   6.3  50 113  -1.6   0.5   6.0  1  J                      7.2   0 139  -5.4   3.9   2.6  0  J
 2  386  7.9   21  J   6.3  50 158  -3.5  -1.2   4.6  2  J                      5.6  49   9   3.5  -1.7   3.8  1  J
 3  387  6.4   17  L   6.8  30 195  -5.7  -3.0   2.2  1  J                      5.4  46  43   2.6   0.3   4.5  1  J
 4  380  9.4   26  J   6.9  18 192  -6.4  -2.2   1.3  1  J    361  9.1   21  J   5.4  43  41   2.9   0.6   4.3  1  J
 5  373 11.3   21  J   7.5   6 192  -7.2  -1.7   0.1  0  J    355  9.4   35  J   5.5  47   8   3.6  -1.1   3.7  2  J
 6  368 11.9   17  J   7.6   7 196  -7.3  -2.3   0.1  0  J    350  9.3   43  J   5.7  37  31   3.8   1.0   4.0  1  J
 7  364 11.2   14  J   8.1   0 190  -8.0  -1.3  -0.4  0  J    359  8.4   42  J   5.8  32 351   4.5  -1.6   2.5  2  J
 8  363 12.5   12  J   8.5  -4 191  -8.1  -1.4  -1.0  2  J    365  6.8   33  J   6.2  23 336   5.0  -2.7   1.6  2  J
 9  363 13.5   12  J   8.6 -10 183  -8.3  -0.1  -1.5  2  J    368  8.0   41  J   6.1  19 336   5.1  -2.6   1.4  1  J
10  365 15.0   13  J   8.3 -21 175  -7.5   1.2  -2.7  2  J    367  7.9   48  J   5.6  -3 354   3.9  -0.4  -0.3  4  J
11  370 18.4   15  J   8.1 -32 163  -6.4   2.7  -3.7  1  J    365  9.9   39  J   6.3 -27 334   4.4  -1.6  -2.9  3  J
12  373 18.9   18  J   7.7 -36 130  -3.7   5.2  -3.3  2  J    372 14.8   34  J   4.8 -39 306   1.7  -1.9  -2.8  3  J
13  373 22.3   17  J   7.3 -31 107  -1.7   6.3  -2.3  2  J    370 18.8   23  J   4.8 -32 296   0.9  -1.5  -1.6  4  J
14                     7.1 -30 102  -1.2   6.2  -1.9  3  J    365 10.0   23  J   8.3 -27 122  -3.8   6.8  -2.1  1  J
15                                                            366  9.5   27  J   8.5 -33 120  -3.5   7.1  -2.7  2  J
16                     7.2 -39 139  -3.4   4.0  -2.5  4  J    367 10.6   42  J   8.0 -30 120  -3.1   6.3  -1.7  3  J
17                     8.0 -40 141  -4.5   5.2  -3.2  3  J    364  8.8   40  J   8.2 -17 121  -3.8   6.7   0.3  3  J
18  363 11.9   14  J   7.8 -34 124  -3.5   6.4  -1.7  3  J                      8.5   3 124  -4.6   6.1   3.3  2  J
19  360 11.6   20  J   8.5 -26 108  -2.2   7.8   0.1  2  J
20  365 12.4   20  J   8.2 -12  94  -0.5   7.6   2.5  2  J
21  368  7.3   20  J   8.5  11  76   2.0   6.0   5.7  0  J    357 12.0   95  J   7.9  32 138  -4.9   1.5   5.8  2  J
22  372 14.4   27  J   6.5  18  65   2.6   3.6   4.8  1  J    362 13.1   92  J   7.5  11 119  -3.3   4.3   4.4  3  J
23  367 13.6   21  J   6.9  15  73   1.9   4.1   4.8  2  J    354 11.6   84  J   7.4 -21 109  -2.8   6.7   1.4  2  J
24  357 11.0   26  J   7.1  -1  96  -0.7   5.8   3.8  1  J                      7.0   1 113  -2.5   4.9   3.5  2  J
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MAR. 7, 1978 66

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 348 | 11.3 | 74 | J | 6.1 | -32 | 142 | -3.8 | 4.1 | -0.9 | 2 | J |
| 2 | 332 | 2[illegible].9 | 26 | J | 6.6 | -24 | 126 | -3.2 | 5.0 | 0.3 | 3 | J |
| 3 | 329 | 24.9 | 25 | J | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 326 | 23.3 | 22 | J | | | | | | | | |
| 6 | 322 | 22.8 | 22 | J | | | | | | | | |
| 7 | 335 | 16.3 | 36 | J | | | | | | | | |
| 8 | 347 | 9.3 | 74 | J | 8.3 | 23 | 149 | -6.3 | 2.8 | 4.0 | 1 | J |
| 9 | 360 | 8.9 | 62 | J | 7.8 | 19 | 141 | -5.2 | 3.6 | 3.2 | 3 | J |
| 10 | 376 | 7.9 | 59 | J | 8.2 | -33 | 118 | -2.8 | 6.0 | -2.7 | 4 | J |
| 11 | 379 | 6.8 | 52 | J | 8.1 | -17 | 111 | -2.7 | 7.4 | -0.9 | 1 | J |
| 12 | 376 | 7.7 | 36 | J | 7.9 | -26 | 109 | -2.3 | 7.2 | -2.0 | 2 | J |
| 13 | 377 | 8.6 | 34 | J | 7.8 | -31 | 111 | -2.4 | 6.9 | -2.5 | 1 | J |
| 14 | 371 | 12.3 | 42 | J | 6.3 | -33 | 114 | -1.8 | 4.7 | -1.8 | 3 | J |
| 15 | 380 | 13.4 | 29 | J | 6.4 | -53 | 89 | 0.1 | 5.0 | -3.7 | 2 | J |
| 16 | | | | | | | | | | | | |
| 17 | 364 | 12.6 | 23 | J | 6.9 | -21 | 101 | -1.2 | 6.5 | 0.1 | 2 | J |
| 18 | 348 | 11.1 | 24 | J | 6.6 | 2 | 120 | -3.1 | 3.9 | 4.3 | 1 | J |
| 19 | 349 | 12.4 | 31 | J | 5.0 | -32 | 121 | -1.9 | 3.9 | -0.6 | 2 | J |
| 20 | 348 | 12.1 | 50 | J | 6.0 | 0 | 141 | -4.6 | 3.2 | 1.9 | 1 | J |
| 21 | 349 | 11.7 | 44 | J | 6.3 | 5 | 138 | -4.4 | 3.1 | 2.6 | 2 | J |
| 22 | 358 | 10.7 | 29 | J | 5.7 | -45 | 115 | -1.4 | 4.4 | -1.1 | 3 | J |
| 23 | 348 | 9.9 | 40 | J | 5.8 | -8 | 127 | -3.2 | 4.0 | 1.8 | 2 | J |
| 24 | 356 | 5.9 | 41 | J | 7.9 | 53 | 155 | -4.3 | -1.9 | 6.3 | 2 | J |

MAR. 8, 1978 67

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 11.2 | 26 | J | 7.1 | 60 | 148 | -2.8 | -1.7 | 5.8 | 2 | J |
| 2 | 390 | 11.1 | 19 | J | 7.2 | 77 | 183 | -1.6 | -3.7 | 5.8 | 1 | J |
| 3 | 385 | 13.2 | 20 | J | 6.6 | 62 | 168 | -3.0 | -2.3 | 5.3 | 1 | J |
| 4 | 390 | 12.7 | 25 | J | 6.8 | 58 | 148 | -3.0 | -0.9 | 5.9 | 1 | J |
| 5 | 392 | 11.5 | 27 | J | 7.6 | 68 | 163 | -2.5 | -2.0 | 6.3 | 2 | J |
| 6 | 393 | 13.2 | 24 | J | 8.2 | 58 | 173 | -4.1 | -1.9 | 6.4 | 3 | J |
| 7 | 399 | 8.9 | 18 | J | 9.8 | 65 | 183 | -4.1 | -2.9 | 8.4 | 1 | J |
| 8 | 394 | 9.7 | 25 | J | 9.1 | 55 | 174 | -5.1 | -1.4 | 7.3 | 1 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 385 | 15.1 | 56 | J | 7.6 | 44 | 174 | -5.2 | -0.5 | 5.1 | 2 | J |
| 13 | 392 | 15.7 | 63 | J | 7.4 | 21 | 207 | -5.3 | -3.1 | 1.6 | 4 | J |
| 14 | 405 | 21.0 | 49 | J | 11.0 | 38 | 195 | -8.1 | -3.7 | 5.8 | 2 | J |
| 15 | 405 | 25.5 | 75 | J | 15.6 | 28 | 180 | -12.2 | -1.8 | 6.2 | 10 | J |
| 16 | 425 | 43.1 | 157 | J | 16.7 | -8 | 138 | -11.4 | 10.4 | 1.3 | 7 | J |
| 17 | 433 | 42.0 | 135 | J | 13.5 | 13 | 122 | -5.0 | 6.6 | 5.0 | 10 | J |
| 18 | 412 | 35.1 | 97 | J | 13.9 | -43 | 119 | -3.8 | 9.3 | -3.7 | 9 | J |
| 19 | 405 | 32.1 | 80 | J | 13.7 | -73 | 48 | 2.6 | 8.6 | -10.0 | 3 | J |
| 20 | 427 | 27.8 | 93 | J | 14.6 | -64 | 311 | 4.1 | 2.4 | -13.4 | 3 | J |
| 21 | 420 | 19.7 | 111 | J | 15.5 | -22 | 128 | -5.3 | 7.6 | 0.7 | 12 | J |
| 22 | 478 | 12.1 | 218 | J | 15.5 | 51 | 97 | -1.0 | 1.2 | 13.1 | 8 | J |
| 23 | 459 | 8.7 | 205 | J | 16.6 | 30 | 119 | -6.7 | 5.4 | 13.4 | 5 | J |
| 24 | 459 | 6.7 | 312 | J | 14.9 | 10 | 125 | -8.0 | 8.0 | 8.4 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 6.7 | 305 | J | 14.5 | -14 | 131 | -9.0 | 10.5 | 2.9 | 3 | J |
| 2 | 473 | 6.3 | 306 | J | 14.5 | -29 | 131 | -8.3 | 11.8 | -0.9 | 2 | J |
| 3 | 491 | 5.1 | 305 | J | 14.7 | -19 | 133 | -9.3 | 11.0 | 0.9 | 3 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 486 | 5.7 | 249 | J | 13.4 | -7 | 146 | -10.6 | 7.2 | 1.1 | 4 | J |
| 7 | 516 | 3.9 | 87 | J | 12.3 | -6 | 133 | -8.3 | 8.8 | 1.5 | 1 | J |
| 8 | 514 | 4.3 | 133 | J | 12.7 | 17 | 150 | -9.9 | 4.6 | 4.9 | 4 | J |
| 9 | 516 | 3.3 | 95 | J | 11.3 | -17 | 133 | -7.2 | 8.2 | -1.3 | 2 | J |
| 10 | 545 | 3.3 | 114 | J | 11.0 | -18 | 118 | -4.6 | 9.2 | -1.3 | 3 | J |
| 11 | 529 | 3.6 | 68 | J | 10.8 | 2 | 141 | -8.2 | 6.5 | 1.7 | 2 | J |
| 12 | 535 | 3.6 | 64 | J | 11.0 | -4 | 159 | -9.0 | 3.5 | 0.0 | 5 | J |
| 13 | 533 | 3.8 | 68 | J | 10.5 | -1 | 172 | -9.6 | 1.4 | 0.1 | 4 | J |
| 14 | 530 | 3.6 | 66 | J | 10.2 | 21 | 173 | -8.9 | 0.2 | 3.6 | 3 | J |
| 15 | 529 | 3.5 | 71 | J | 9.8 | 2 | 177 | -9.0 | 0.4 | 0.4 | 3 | J |
| 16 | 532 | 3.8 | 68 | J | 10.0 | 5 | 177 | -9.2 | 0.2 | 0.9 | 4 | J |
| 17 | 518 | 3.7 | 72 | J | 9.0 | 1 | 172 | -8.6 | 1.1 | 0.6 | 2 | J |
| 18 | 519 | 4.0 | 59 | J | 9.8 | -2 | 154 | -8.6 | 4.0 | 1.5 | 2 | J |
| 19 | 527 | 4.1 | 64 | J | 9.4 | -9 | 155 | -8.2 | 4.1 | 0.5 | 2 | J |
| 20 | 529 | 4.2 | 75 | J | 9.0 | -22 | 169 | -8.0 | 3.0 | -2.1 | 1 | J |
| 21 | 511 | 3.5 | 61 | J | 8.6 | -20 | 158 | -7.2 | 4.0 | -0.8 | 2 | J |
| 22 | 500 | 3.3 | 45 | J | 8.6 | 4 | 148 | -6.9 | 3.3 | 2.9 | 3 | J |
| 23 | 490 | 3.5 | 58 | J | 7.9 | 6 | 129 | -4.5 | 4.2 | 3.8 | 3 | J |
| 24 | 492 | 3.3 | 60 | J | 7.4 | 0 | 148 | -6.0 | 3.1 | 2.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 490 | 3.4 | 46 | J | 7.2 | 27 | 125 | -3.5 | 2.5 | 5.4 | 2 | J |
| 2 | 497 | 3.4 | 51 | J | 7.1 | 16 | 121 | -2.7 | 3.0 | 3.7 | 4 | J |
| 3 | 458 | 3.2 | 46 | J | 6.9 | -3 | 167 | -6.0 | 1.4 | 0.4 | 3 | J |
| 4 | 457 | 3.3 | 46 | J | 7.1 | 1 | 145 | -5.6 | 3.4 | 1.9 | 2 | J |
| 5 | 497 | 0.0 | 0 | H | | | | | | | | |
| 6 | 478 | 0.0 | 0 | H | | | | | | | | |
| 7 | 463 | 12.6 | 28 | J | 6.8 | -29 | 105 | -1.5 | 6.5 | -1.3 | 0 | J |
| 8 | 464 | 11.2 | 31 | J | 7.6 | -49 | 80 | 0.8 | 5.4 | -3.7 | 4 | J |
| 9 | 459 | 3.4 | 8 | L | | | | | | | | |
| 10 | 448 | 3.1 | 15 | L | | | | | | | | |
| 11 | 465 | 5.4 | 15 | L | | | | | | | | |
| 12 | 376 | 0.0 | 0 | H | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | 480 | 3.0 | 81 | L |
| 6 | | | | |
| 7 | 426 | 2.6 | 95 | L |
| 8 | | | | |
| 9 | | | | |
| 10 | 444 | 0.0 | 0 | H |
| 11 | 440 | 3.5 | 63 | L |
| 12 | 436 | 4.1 | 62 | L |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | 415 | 3.2 | 51 | L |
| 17 | 421 | 3.6 | 61 | L |
| 18 | 398 | 3.7 | 71 | L |
| 19 | 400 | 3.1 | 57 | L |
| 20 | 373 | 5.2 | 48 | L |
| 21 | | | | |
| 22 | 405 | 0.0 | 0 | H |
| 23 | | | | |
| 24 | | | | |

MAR. 12, 1978 71

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 3 | 408 | 0.0 | 0 | H |
| 4 | 437 | 0.0 | 0 | H |
| 5 | 403 | 3.8 | 93 | L |
| 6 | 401 | 4.2 | 79 | L |
| 11 | 375 | 2.6 | 135 | L |
| 12 | 375 | 2.7 | 127 | L |
| 13 | 378 | 2.4 | 144 | L |
| 14 | 367 | 2.7 | 127 | L |
| 15 | 362 | 2.4 | 108 | L |
| 16 | 372 | 2.6 | 109 | L |
| 17 | 361 | 2.7 | 121 | L |
| 18 | 337 | 2.4 | 139 | L |
| 19 | 334 | 3.2 | 121 | L |

MAR. 13, 1978 72

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | | | | |
| 2 | 353 | 5.1 | 68 | L |
| 3 | 362 | 5.2 | 77 | L |
| 4 | 360 | 5.6 | 74 | L |
| 5 | 372 | 7.4 | 73 | L |
| 6 | 371 | 7.9 | 70 | L |
| 7 | | | | |
| 8 | 368 | 0.0 | 0 | H |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | 360 | 7.2 | 77 | L |
| 13 | 360 | 6.8 | 65 | L |
| 14 | 349 | 7.2 | 73 | L |
| 15 | 352 | 7.8 | 87 | L |
| 16 | 345 | 7.2 | 75 | L |
| 17 | 346 | 7.0 | 92 | L |
| 18 | 346 | 7.3 | 90 | L |
| 19 | 354 | 7.3 | 78 | L |
| 20 | 350 | 7.3 | 79 | L |
| 21 | 340 | 8.0 | 75 | L |
| 22 | 340 | 7.3 | 72 | L |
| 23 | | | | |
| 24 | | | | |

MAR. 14, 1978 73

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 3 | 344 | 7.9 | 68 | L |
| 4 | 328 | 7.7 | 59 | L |
| 5 | 327 | 6.9 | 58 | L |
| 6 | 324 | 6.5 | 58 | L |
| 10 | 338 | 0.0 | 0 | H |
| 11 | 343 | 8.1 | 73 | L |
| 12 | 353 | 9.1 | 67 | L |
| 13 | 339 | 9.6 | 73 | L |
| 14 | 332 | 9.2 | 68 | L |
| 15 | 368 | 10.6 | 80 | L |
| 16 | 358 | 10.4 | 84 | L |
| 17 | 330 | 9.4 | 48 | L |
| 18 | 346 | 0.0 | 0 | H |
| 19 | 344 | 0.0 | 0 | H |
| 20 | 349 | 16.0 | 48 | L |
| 21 | 361 | 16.5 | 43 | L |
| 22 | 362 | 22.1 | 45 | L |
| 23 | 375 | 29.6 | 68 | L |
| 24 | 376 | 24.5 | 113 | L |

**ORIGINAL PAGE IS OF POOR QUALITY**

03/15/78 – 03/22/78

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OF POOR QUALITY

```
HR      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                     SC
                                                           74
                      MAR. 15, 1978

 1
 2
 3
 4      380  0.0    0  H
 5
 6
 7      395 14.4  146  L
 8      403 12.4  163  L
 9      391 10.9  146  L
10      393 10.3  143  L
11      389  0.0    0  H
12      372  0.0    0  H
13
14      399  0.0    0  H
15      375  9.0   77  L
16      395 11.8   74  L
17      394 13.9   76  L
18      400 14.7   85  L
19      394 15.6  111  L
20
21      444 12.8  124  L
22      442 10.9  128  L
23      487  8.5  152  L
24      507  0.0    0  H
```

```
VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
        1000  SC  MAGN LAT LON                     SC
                                                   75
                MAR. 16, 1978

493  9.2 152  L
496 10.1 189  L
482 10.6 184  L
484 11.8 191  L
498 13.3 203  L
486 13.6 198  L
464 13.0 176  L
462 12.0 181  L

450 15.7 163  L
450 17.1 180  L
442  0.0   0  H
431 12.8 146  L
439 12.7 143  L
454 12.0 149  L
456 11.4 128  L
461 10.2 131  L
479 11.0 146  L
512 11.3 184  L
507 11.3 193  L
503  8.8 184  L
531 10.5 212  L
533  9.9 184  L
522 10.2 182  L
```

```
                                                           76
                      MAR. 17, 1978

 1      519 10.0 176  L
 2      506  9.3 153  L
 3      503  9.3 152  L
 4      502  9.9 145  L
 5      506  9.6 134  L
 6      488  8.2 113  L
 7
 8      488  8.1 127  L
 9      492  9.1 141  L
10      495  9.5 168  L
11      521  9.0 192  J    4.7 -10 315   0.9  -0.8  -0.4  5  J
12      544  8.8 240  J
13      556  7.5 234  L    5.0 -63 127  -0.7   1.4  -1.9  4  J
14      561  7.5 202  J    5.2 -40 152  -1.6   1.2  -1.2  5  J
15      593  7.4 131  J    6.2  -5 306   3.3  -4.1  -2.0  3  J
16      553  5.6 161  L
17      555  5.1 177  L
18      557  5.1 169  L
19      558  5.4 171  L
20      585  5.1 162  L
21      542  5.5 189  L
22      554  5.3 180  L
23      543  5.0 187  L
24      539  5.1 172  L
```

```
                                                   77
                MAR. 18, 1970

                      5.3  -5 338   4.7  -1.3  -1.4  2  J
532  5.0 139  J      5.7 -12 315   3.4  -2.3  -2.7  3  J
542  5.0 133  J      5.7   0 317   3.4  -2.7  -1.6  3  J
543  5.0 135  J      5.6 -39 311   2.1  -1.0  -3.5  4  J
550  4.6 137  J      5.9  26 327   3.7  -3.1   1.0  3  J
531  4.0 122  J      5.8   7   4   4.0   0.1   0.6  4  J
520  4.3 142  J      6.0  -3   6   5.4   0.6  -0.1  3  J
513  4.3  84  J
                      6.2  24 319   2.8  -2.8   1.0  5  J
554  4.4 116  J      5.7 -25 286   1.2  -3.8  -3.0  2  J
559  4.7 117  J      6.0 -29 313   3.5  -3.0  -3.5  2  J
523  4.8 107  J      5.8 -12 303   2.7  -3.9  -1.9  3  J
514  4.6 105  J      6.0 -49 313   2.5  -1.6  -4.6  2  J
526  4.9 112  J      6.1 -35 314   3.2  -2.4  -3.9  2  J
521  4.7  85  J      6.4 -28 326   4.5  -2.0  -3.6  2  J
531  4.9  87  J      6.5  -8 296   2.3  -4.1  -2.2  4  J
518  5.1 111  J      5.5  -3 303   2.2  -3.1  -1.5  5  J
516  5.1  99  J      6.4 -17 320   4.0  -2.4  -2.9  3  J
494  4.8  82  J      6.2   8 300   2.7  -4.4  -1.5  3  J
505  5.2 104  J      5.5  74 241  -0.5  -2.4   2.4  4  J
539  5.2 125  J      6.2  51  26   1.9  -0.6   2.6  5  J
532  5.2  86  J      6.7 -21 318   4.3  -2.0  -4.0  2  J
490  5.4  86  J      6.3  10 320   4.5  -3.7  -1.3  2  J
487  5.6 124  J      5.7  -9 329   4.5  -1.7  -2.2  2  J
471  5.9 134  J
```

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                                                           78
                      MAR. 19, 1978

                           5.8 -29 344   4.4   0.4  -2.8  3  J
 1      478  5.5 115  J
 2      479  5.1  71  J
 3                         6.0  10 311   2.8  -3.2  -0.8  4  J
 4      470  4.9  87  J    5.8  14 313   3.5  -4.0  -0.4  2  J
 5      471  4.9  75  J    6.5  18 322   3.5  -3.1   0.4  4  J
 6      475  5.2  86  J    6.2  39 356   3.5  -1.1   2.6  4  J
 7      480  5.1  77  J    6.2  39   8   4.0  -0.4   3.3  3  J
 8      472  5.2  73  J    6.1   7  22   4.9   1.8   1.1  3  J
 9      463  5.1  57  J    6.1   2  37   4.4   3.2   0.9  3  J
10      464  5.2  76  J    6.1  -6 350   4.9  -0.7  -0.7  3  J
11      453  5.0  51  J    6.6 -10   8   6.0   1.1  -0.9  2  J
12      443  5.0  45  J    6.1  -2 310   3.3  -3.8  -1.1  3  J
13      460  5.0  63  J    6.0 -21 321   4.0  -2.6  -2.7  2  J
14      455  5.0  58  J
15                         6.2 -10 283   1.4  -5.2  -3.0  1  J
16      470  4.2  76  J    5.8 -11 340   3.9  -1.0  -1.3  4  J
17      453  4.7  63  J    6.1  12 336   3.9  -2.0   0.1  4  J
18      448  4.6  69  J    6.1  23 302   2.5  -4.5  -0.1  3  J
19      447  5.0  66  J    6.0  38 316   2.8  -3.9   1.2  3  J
20      445  5.2  73  J    6.0  39 336   3.4  -2.9   1.7  4  J
21      433  4.9  71  J    5.6  14 311   3.1  -3.6  -1.0  3  J
22      431  4.6  62  J    5.4  20 311   3.0  -3.7  -0.6  3  J
23      433  4.9  75  J    5.3  -8 349   4.8  -0.4  -1.1  2  J
24      409  4.4  30  J
```

```
                                                   79
                MAR. 20, 1978

                     5.9 -19 321   4.0  -1.7  -3.3  2  J
410  4.8  44  J     5.3  11 334   3.9  -2.0  -0.3  3  J
407  4.3  40  J     4.9   8 337   4.1  -1.8  -0.3  2  J
403  3.8  39  J     4.5   2 345   4.0  -1.0  -0.4  2  J
405  3.3  36  J     4.9   7 323   3.4  -2.6  -0.6  2  J
407  4.2  52  J     4.6  29 329   3.4  -2.7   1.3  1  J
411  3.9  34  J     4.9  -6 282   0.9  -3.9  -1.8  2  J
422  4.4  48  J     4.6  13 300   1.9  -3.5  -0.1  2  J
409  4.7  63  J
                     4.1  56 295   0.9  -2.4   2.5  2  J
398  7.7  50  J     4.9   6 301   2.3  -3.8  -0.3  2  J
389  7.3  57  J     4.1 -40 243  -1.1  -1.8  -2.5  3  J
403  8.7  40  J     4.6 -14 244  -1.6  -3.0  -1.6  3  J
405  9.7  44  J     4.7 -37 264  -0.3  -2.5  -3.2  2  J
400  9.7  43  J
                     5.4 -37 283   0.7  -2.1  -3.2  4  J
386 10.2  40  J     4.4   1  40   3.1   2.3   1.1  2  J
377 11.5  48  J
                     4.4  16  34   2.3   1.0   1.4  4  J
374 11.1  49  J     4.2 -18 355   2.6   0.2  -0.8  4  J
373 11.9  56  J     5.7  11  30   3.1   1.1   1.5  5  J
376 10.5  43  J     5.4 -42   9   2.2   1.4  -1.5  5  J
372  9.7  50  J     6.3 -28  57   3.0   5.4   0.2  1  J
372  8.7  41  J     6.0 -36  37   3.6   4.0  -1.1  2  J
365  8.0  52  J
```

```
                                                           80
                      MAR. 21, 1978

                           4.8 -82 106  -0.2   2.6  -3.0  3  J
 1      363  8.9  64  J    4.8 -36 319   2.8  -0.6  -3.6  2  J
 2      354  8.2  93  J    4.9  -2 295   1.9  -3.5  -2.2  2  J
 3      360  8.5  80  J    5.5 -41 265  -0.3  -1.6  -4.1  3  J
 4      364  7.6  63  J    5.9  16 251  -1.6  -4.9  -0.6  3  J
 5      371  7.3  51  J    6.0  32 246  -2.0  -5.2   1.2  2  J
 6      368  7.5  49  J    5.6  25 256  -1.2  -5.2   0.7  2  J
 7      364  7.8  58  J    6.5 -26 314   3.7  -3.0  -3.5  3  J
 8      370  3.6  45  J    6.7 -27 313   4.1  -3.5  -4.0  1  J
 9      390  2.3  48  J    6.1 -22 303   3.0  -4.1  -3.2  1  J
10      360  3.6  29  J    6.1  -8 293   2.2  -5.0  -1.9  2  J
11      370  4.7  31  J
12                         5.8 -13 317   3.6  -3.0  -1.9  2  J
13      359  3.3  42  L    5.3  -8 303   2.7  -3.8  -1.7  2  J
14      343  5.1  30  J    5.1  14 322   3.9  -3.1   0.3  1  J
15      339  5.1  31  J    5.3   3 329   4.5  -2.6  -0.6  1  J
16      342  5.2  37  J    5.1   8 333   4.1  -2.2  -0.2  2  J
17      335  5.2  27  J    5.0  14 329   4.1  -2.7   0.0  1  J
18      336  5.0  20  J    5.2   6 326   4.2  -2.7  -0.9  1  J
19      335  5.0  19  J    5.1  14 331   4.3  -2.7  -0.2  1  J
20      333  5.4  23  J    5.1  20 341   4.5  -2.3   0.6  1  J
21      331  5.7  26  J    4.8   8 305   2.2  -2.8  -1.3  3  J
22      341  6.7  20  J    5.2  25 315   3.2  -3.8  -0.1  1  J
23      333  6.6  17  J    4.8  21 320   3.3  -3.2  -0.2  1  J
24      334  7.9  22  J
```

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                                                   81
                MAR. 22, 1978

                     4.9  -6 331   4.1  -1.6  -1.7  2  J
333  9.5  30  J     5.0   0 333   3.7  -1.6  -1.0  3  J
336  9.9  26  J     5.2  16 296   2.1  -4.4  -1.0  1  J
345 10.2  29  J     5.4  21 308   2.9  -4.2  -0.1  1  J
340 10.5  22  J     6.4   1 299   3.0  -4.9  -2.1  2  J
345 13.5  37  J     7.3  -3 311   4.7  -4.9  -2.3  2  J
338 14.8  30  J

                     6.3 -42 261  -0.6  -2.9  -4.3  3  J
349 17.4  35  J     6.6 -77 298   0.7   0.1  -6.3  2  J
348 19.2  28  J     7.8  35 292   2.3  -6.5   3.0  2  J
342 12.2  31  J     8.9  36 287   2.1  -7.7   3.6  2  J
343 12.8  27  J     8.8  25 269  -0.1  -8.0   1.7  3  J
347 12.9  34  J     8.3  11 263  -1.0  -8.1  -0.5  1  J
349 13.6  47  J     7.2  -1 265  -0.6  -6.2  -2.0  3  J
343 14.3  51  J     3.8   1 265  -0.3  -2.9  -1.0  2  J
341 23.7  52  J     3.4 -17 344   2.4  -0.3  -1.0  2  J
333 21.8  43  J     5.6 -62 357   1.8   1.4  -3.1  4  J
338 21.8  52  J     8.6 -78  10   1.7   4.2  -7.2  2  J
353 19.2  44  J     7.4 -79  18   1.3   4.1  -5.9  2  J
364 20.8  53  J     8.8 -75 303   1.1   2.6  -7.1  4  J
361 25.5  42  J     5.8 -82 188  -0.7   2.8  -4.2  3  J
365 31.4  57  J    10.9  23 261  -1.4  -9.7  -2.0  5  J
373 20.3  41  J    12.9  53 270   0.0 -12.0   4.0  2  J
369 17.5  38  J
```

03/23/78 – 03/30/78

```
HR     VEL   DEN TEMP/ PLS  AV B GSE GSE  BXGSM  BYGSM  BZGSM  SG IMF   VEL   DEN TEMP/ PLS  AV B GSE GSE  BXGSM  BYGSM  BZGSM  SG IMF
                  1000  SC  MAGN LAT LON                          SC               1000  SC  MAGN LAT LON                          SC

                              MAR. 23, 1978                 82                             MAR. 24, 1978                    83

  1    370  23.4   46  J   10.5 -42 214   -4.4    0.2   -5.7   8  J
  2    360  15.7  106  L   11.5 -24 109   -1.3    4.1    0.5  11  J
  3    372  14.9  156  L
  4
  5
  6
  7
  8                                                                     349   0.0    0  H
  9    391   9.0  188  L                                                340  10.8   30  L
 10    382   9.2  170  L                                                351  12.5   23  L
 11                                                                     343  14.9   23  L
 12                                                                     342  10.4   21  L
 13
 14    382   0.0    0  H
 15    378   0.0    0  H                                                349   9.9   12  L
 16    371   0.0    0  H
 17    374   0.0    0  H                                                351  12.4   13  L
 18    372  12.3   58  L                                                354  14.8   15  L
 19    371  10.7   49  L                                                353  17.6   14  L
 20                                                                     347  16.7   14  L
 21    375   7.1   41  L
 22    375   7.1   41  L
 23                                                                     344  23.0   20  L
 24                                                                     353   0.0    0  H

                              MAR. 25, 1978                 84                             MAR. 26, 1978                    85

  1                                                                     376  85.4   37  L
  2                                                                     373  28.7   83  L
  3    342   0.0    0  H                                                382  20.9  188  L
  4    343   0.0    0  H                                                386  20.0  231  L
  5    361  15.9   46  L                                                382  19.9  220  L
  6    349  13.6   50  L
  7
  8    361  12.3   36  L
  9    361  12.2   33  L                                                390  23.2  146  L
 10    356  12.2   24  L                                                388  29.2  113  L
 11    348  11.5   41  L                                                395  33.0  115  L
 12    345  11.6   40  L                                                422   0.0    0  H
 13    344  12.9   29  L                                                425  55.5  111  L
 14    325  12.2   21  L                                                439  55.0   97  L
 15    320  10.6   19  L                                                462  29.4  247  L
 16    320  17.6   18  L                                                479  20.6  222  L
 17    319  17.1   18  L                                                515  23.7  385  L
 18    309  15.5   19  L                                                537  24.1  368  L
 19    317  20.9   20  L                                                550  18.2  398  L
 20    321  30.7   18  L                                                534  17.4  376  L
 21    338  48.7   24  L                                                530  15.9  344  L
 22                                                                     586   8.8  290  L
 23    346  54.6   40  L                                                640   7.2  238  L
 24    367  56.9   47  L                                                615   5.9  218  L

                              MAR. 27, 1978                 86                             MAR. 28, 1978                    87

  1    648   5.7  217  L
  2
  3
  4    619   0.0    0  H
  5
  6
  7
  8                                                                     648   0.0    0  H
  9    644   7.4  277  L
 10    671   6.7  264  L                                                606   3.7  119  L
 11    703   0.0    0  H                                                622   3.3  141  L
 12    668   0.0    0  H                                                618   0.0    0  H
 13                                                                     602   3.8  131  L
 14    622   0.0    0  H                                                607   3.8  139  L
 15    637   5.9  224  L                                                599   3.7  135  L
 16    624   5.6  216  L                                                597   3.7  141  L
 17    632   6.2  213  L                                                607   3.5  172  L
 18    633   6.7  247  L                                                612   4.4  148  L
 19    648   7.3  238  L                                                610   3.9  190  L
 20    615   7.4  252  L                                                632   3.6  182  L
 21    630   8.8  264  L                                                637   3.7  184  L
 22    612   7.3  238  L                                                623   3.8  172  L
 23    642   4.7  188  L                                                624   4.0  161  L
 24    651   4.2  204  L                                                637   4.4  190  L

                              MAR. 29, 1978                 88                             MAR. 30, 1978                    89

  1    634   4.4  192  L                                                534   4.2  153  L
  2    651   3.4  273  L                                                530   4.3  138  L
  3    642   3.5  270  L                                                526   3.1   96  L
  4    699   0.0    0  H                                                517   3.3   98  L
  5    654   3.3  286  L                                                504   3.3   92  L
  6
  7
  8    653   3.9  277  L
  9    650   3.6  255  L                                                496   3.6   77  L
 10    692   3.8  255  L
 11                                                                     497   3.7   64  L
 12    674   3.7  231  L                                                480   4.5   58  J    6.8 -22 315    3.7   -3.2   -2.9   3  J
 13                                                                     473   5.1   78  J    6.1   0 338    4.7   -1.9   -0.4   3  J
 14    668   4.2  245  L                                                462   3.6   59  J    5.0  -5 339    4.0   -1.4   -0.7   2  J
 15    603   3.4  192  L                                                469   5.0   57  J    6.6  16 359    5.9   -0.6    1.6   2  J
 16    606   3.7  227  L                                                469   4.8   62  J    6.1  11 353    5.6   -1.0    0.8   2  J
 17    604   4.4  202  L                                                504   4.0   64  J    6.9  27 333    4.8   -3.3    1.6   3  J
 18    592   3.4  205  L                                                518   3.8   94  J    6.9  41 309    3.1   -5.3    2.2   2  J
 19    592   4.2  173  L                                                503   3.1   71  J    6.1  12  16    5.4    0.8    1.8   2  J
 20    574   3.5  193  L                                                498   3.6   60  J    5.8   4  15    5.5    1.1    1.1   1  J
 21    564   3.4  165  L                                                502   4.4   58  J    5.8  -2  16    5.5    1.4    0.7   0  J
 22    559   3.3  154  L                                                501   3.9   53  J    5.1 -25  62    2.0    4.3    0.5   2  J
 23    561   3.4  165  L                                                463   3.4   42  J    5.0  22   5    4.5   -0.7    1.7   1  J
 24    545   3.6  154  L                                                468   3.2   62  J    5.2  22  25    4.3    0.6    2.7   1  J
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03/31/78 – 04/07/78

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HR      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                         SC

                          MAR. 31, 1978                            90

 1      463  3.3  55  J    5.6   6  15   5.1   0.8   1.2  2  J
 2      481  3.3  73  J    5.2  12 348   4.6  -1.4   0.3  2  J
 3      464  3.6  55  J    6.0  15 355   5.5  -1.1   1.0  2  J
 4                         6.0  13 327   4.7  -3.3  -0.2  2  J
 5      475  3.9  67  J    6.6  34 339   4.7  -3.0   2.4  2  J
 6      465  3.9  55  J    6.8  27 351   5.8  -1.9   2.5  2  J
 7      458  3.4  39  J    6.3  21   9   5.7   0.2   2.4  1  J
 8      459  3.1  42  J    6.0  24  22   4.8   1.3   2.8  2  J
 9      464  3.0  43  J    5.9  40  33   3.6   1.4   4.0  2  J
10      455  3.5  42  J    5.6  14 324   4.2  -3.2   0.6  2  J
11      464  3.3  48  J    6.3   6 294   2.3  -5.3  -0.5  2  J
12      470  4.0  50  J    6.2  -2 293   2.3  -5.3  -1.3  2  J
13      492  3.9  65  J    5.3 -15 276   0.5  -4.3  -2.3  2  J
14      471  3.4  81  J    4.7   3 331   3.7  -2.0  -0.3  2  J
15      507  4.1 114  J    3.9 -35 286   0.5  -1.3  -1.7  3  J
16      498  4.2 100  J    3.5 -40 327   1.7  -0.5  -2.0  2  J
17      490  4.7 114  J    4.6 -22 336   3.4  -0.8  -2.0  2  J
18      477  4.0 104  J    4.3  19 327   3.1  -2.4   0.3  2  J
19
20
21      496  5.0  55  J    6.0  28 324   4.2  -4.1   0.7  1  J
22      476  5.1  68  J    6.1  19 322   4.1  -3.7  -0.3  2  J
23      462  4.5  70  L
24

                          APR.  2, 1978                            92

 1      418  6.7  52  J    5.3  38 279   0.6  -4.6   0.4  2  J
 2
 3      430  6.0  83  J    4.0 -70 316   0.8   0.8  -3.0  2  J
 4      426  5.6  74  J    3.8  70  13   1.2  -1.2   3.1  1  J
 5      416  5.5  65  J    3.5  23 340   2.6  -1.3   0.7  2  J
 6      414  5.1  52  J    3.5  20 329   2.7  -1.9   0.5  1  J
 7      407  5.0  50  J    3.5   6   4   3.0   0.1   0.4  2  J
 8      413  5.8  54  J    3.7  39  38   2.1   1.0   2.5  2  J
 9
10      396  6.2  84  J    3.9 -19 342   2.9  -0.7  -1.2  2  J
11      404  6.1  63  J    3.8 -24 317   1.1  -0.8  -0.8  3  J
12      409  6.4  55  J    3.6 -51 213  -1.5  -0.5  -2.4  2  J
13      400  6.3  63  J    3.0  36 307   0.9  -1.4   0.8  3  J
14      401  6.5  62  J    4.7  44  15   3.1   0.0   3.2  1  J
15      388  7.4  88  J    4.9  25 359   4.3  -0.6   1.9  2  J
16      386  7.3  93  J    4.2 -12 358   3.5   0.1  -0.7  2  J
17      391  7.4  72  J    3.9 -39 352   2.8   0.5  -2.2  1  J
18      372  6.5  33  J    5.1 -13 329   4.1  -1.8  -2.0  1  J
19      379  7.7  43  J    4.7  -5 320   3.0  -2.0  -1.5  3  J
20      379  8.5  27  J    5.4  -5 297   2.2  -3.4  -2.5  2  J
21      378  8.9  26  J    5.8  13 298   2.3  -4.3  -1.4  3  J
22      407 14.8  38  J    9.7 -30 319   5.9  -1.8  -6.7  3  J
23      423 10.2  78  J   11.9  19 130  -6.9   4.7   7.7  4  J
24      453 12.1 104  J   11.1   3 119  -4.9   7.0   5.4  5  J

                          APR.  4, 1978                            94

 1      506  4.0  45  J   12.1 -15 295   4.9  -7.2  -8.4  1  J
 2      450  3.9  32  J   12.2 -27 269  -0.2  -6.0  -9.7  4  J
 3      463  4.3  30  J   12.2 -17 275   1.0  -7.9  -8.3  4  J
 4      450  4.3  24  J   12.0 -13 277   1.4  -9.1  -7.5  2  J
 5      466  5.0  41  J   15.6  -7 284   3.7 -12.8  -7.6  3  J
 6      476  4.9  39  J   15.8  -2 293   6.1 -13.3  -5.5  2  J
 7      478  7.5  38  J   16.7  10 298   7.6 -14.5  -1.6  3  J
 8      473 17.6  71  J   12.3  40 302   4.3  -8.3   4.7  7  J
 9      450 23.4  73  J   12.5  66 212  -3.1  -3.8   7.6  9  J
10      446 20.8  71  J   14.8  43 106  -2.6   7.2  10.6  7  J
11      439 21.7 130  J   12.3  26 124  -4.6   5.9   5.2  8  J
12      437 17.5 148  J   11.0  23 132  -6.2   6.0   5.2  5  J
13      464 17.4 185  J    9.0  63  88   0.1   2.0   7.7  4  J
14      430 14.6 183  J    8.7  55 142  -3.2   1.0   6.2  5  J
15      447 12.0 217  J    7.9  65 136  -2.0   0.2   6.3  4  J
16      484 10.1 168  J   10.0  54 135  -1.6   0.5   3.5  9  J
17      528  9.7 151  J   10.3 -41 297   3.4  -3.8  -8.6  3  J
18      527  9.5 170  J    9.6 -35 298   3.2  -3.4  -6.9  5  J
19      534 10.1 121  J    8.0 -79 279   0.2   2.3  -7.3  2  J
20      546 10.6  91  J    6.3 -56 314   2.3   0.4  -5.4  2  J
21      519 11.4  83  J    6.0 -62 245  -1.1   0.7  -5.5  2  J
22      518 11.9  93  J    6.5 -47 276   0.4  -1.0  -6.1  2  J
23
24      508  8.2  45  L

                          APR.  6, 1978                            96

 1      589  4.0 264  L
 2      579  3.8 243  L
 3      557  3.6 216  L
 4      579  3.6 191  L
 5      542  3.1 215  L
 6      532  2.7 215  L
 7      539  2.8 231  L
 8      526  2.6 205  L
 9      516  2.5 243  L
10
11      603  2.7 272  L
12      583  3.0 281  L
13      569  3.5 300  L
14      582  3.2 281  L
15      566  2.8 267  L
16      551  2.7 228  L
17      553  2.9 268  L
18      556  3.0 269  L
19      562  2.8 305  L
20      563  3.2 333  L
21      559  3.6 300  L
22      545  3.1 250  L
23
24
```

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VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
        1000  SC  MAGN LAT LON                         SC

                  APR.  1, 1978                            91

455  5.6  45  J    6.1   3 315   4.0  -3.5  -1.9  2  J

493  5.5  53  J    5.2 -35 199  -4.0   0.2  -3.2  1  J
488  5.3  65  J    5.1 -49 228  -1.9  -0.4  -3.8  3  J
481  5.7  66  J    5.7 -33 257  -0.9  -2.6  -4.1  3  J
478  4.9  67  J    4.9 -17 286   1.1  -3.2  -2.5  3  J
466  4.6  63  J    4.7  -6 324   3.4  -2.2  -1.2  2  J
464  5.5  74  J    4.1 -15 321   2.8  -1.9  -1.5  2  J
462  5.1  64  J    4.0 -18 322   2.6  -1.7  -1.5  2  J
462  5.2  49  J    3.3  -3 343   2.9  -0.8  -0.3  1  J
466  5.7  65  J    3.4  19 346   2.8  -0.9   0.8  2  J
466  5.8  61  J    4.1  22 354   3.7  -0.7   1.4  1  J
467  5.5  81  J    4.8  18 340   4.0  -1.7   1.0  2  J
457  5.6  39  J    5.2  13 330   4.2  -2.6   0.5  1  J
468  5.1  73  J    5.5  17 330   4.5  -2.9   0.8  1  J
468  5.4 126  J    5.9  14 322   4.5  -3.8   0.2  1  J
466  4.8  81  J    5.8   9 325   4.6  -3.3  -0.4  1  J
450  4.5  45  J    5.9   8 333   5.1  -2.7  -0.4  1  J
447  4.0  62  J    5.5  15 327   4.4  -3.2  -0.1  1  J
454  4.6  65  J    5.0  15 318   3.4  -3.3  -0.5  1  J
442  4.2  71  J    5.9   6 321   4.5  -3.4  -1.5  1  J
439  5.8  63  J    4.9 -32 318   0.8  -0.2  -1.0  5  J
435  5.4  55  J    4.9 -31 144  -3.3   3.3  -0.7  2  J
436  5.5  55  J    6.7 -51 168  -4.1   3.6  -3.8  1  J

                  APR.  3, 1978                            93

461 11.3  75  J   12.2  38 168  -9.4  -2.4   7.4  1  J
469 13.8 173  J    9.7  47 193  -5.2  -4.0   4.2  6  J


489  8.8 194  J   12.0 -60  35   4.8   7.2  -8.0  2  J
483  9.5 186  J   11.1 -52  68   2.3   7.9  -5.3  5  J
485 14.4 108  J    9.9 -33 104  -1.8   8.2  -2.4  5  J
483 15.1 109  J    9.2  22  94  -0.5   6.0   4.6  5  J
485 11.8  97  J   11.0 -31  93  -0.5   9.9  -3.2  4  J
502 15.1  80  J    8.0 -15  78   1.4   6.7  -0.4  4  J
514 12.4  74  J    7.4 -24  50   4.0   5.2  -1.8  3  J
522  9.3  54  J    5.4 -40  49   2.7   3.7  -2.7  1  J
507  9.9  49  J    5.8 -42  32   3.5   3.0  -3.2  1  J
487 11.2  56  J    6.2  -4 129  -2.2   2.7   0.4  5  J
475 11.7  53  J    6.2  -2 131  -4.0   4.5   1.1  1  J
469 13.7  36  J    6.1 -40 114  -1.7   4.9  -2.1  2  J
470 13.8  45  J    6.2 -40 117  -1.6   4.1  -1.6  4  J
469 13.4  39  J    7.7 -72  65   1.0   4.9  -5.6  1  J
465 18.8  31  J    8.4 -80 293   0.5   2.6  -7.5  3  J
463  9.8  33  J    9.6 -71  87   0.2   7.2  -6.1  2  J
474  4.6  41  J   11.1 -25 294   3.7  -4.7  -8.1  5  J
488  3.9  34  J   11.8 -24 295   4.4  -5.3  -9.1  3  J
515  4.7  43  J   11.5  -9 309   7.0  -6.2  -6.3  2  J
466  2.9  30  J

                  APR.  5, 1978                            95




472  8.0  50  J    9.1  42 224  -4.3  -5.9   3.3  5  J
472  6.8  42  J   10.3  45 218  -5.5  -6.4   5.0  3  J
471  7.4  41  J
431  3.8  71  J    8.9 -18 165  -7.8   2.7  -2.0  2  J
491  5.2  45  J    9.4  34 195  -6.9  -2.9   4.3  4  J
492  6.9  27  J   10.1  43 201  -6.8  -3.9   6.1  2  J
493  5.0  51  L
492  6.3  52  L
529  5.2 133  J   10.5  14 129  -6.2   7.0   4.0  2  J
528  5.3 195  L
547  5.7 218  L
527  7.0 266  L
517  6.5 235  L
529  5.1 278  L
556  5.8 342  L
553  5.7 350  L
543  6.0 345  L
520  6.3 403  L
529  7.1 453  L
535  7.7 452  L

                  APR.  7, 1978                            97


493  2.0 130  L
485  2.3 114  L

494  2.7 152  L
511  2.5 148  L

467  3.2 151  L
446  2.3  72  L
455  2.6  88  L
470  3.7 103  L
446  3.2 103  L
456  3.5 115  L
479  3.4 115  L
449  2.8  94  L
437  3.0  84  L
453  3.1  99  L
455  4.3  94  L


433  3.2  99  L
457  3.7 115  L
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APR. 8, 1978 98

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 442 | 3.4 | 116 | L | | | | | | | | |
| 2 | 439 | 3.9 | 96 | L | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 459 | 6.2 | 74 | L | | | | | | | | |
| 9 | 433 | 5.4 | 82 | L | | | | | | | | |
| 10 | 433 | 5.2 | 85 | L | | | | | | | | |
| 11 | 433 | 5.9 | 83 | L | | | | | | | | |
| 12 | 427 | 5.8 | 79 | L | | | | | | | | |
| 13 | 422 | 0.0 | 0 | H | | | | | | | | |
| 14 | 391 | 7.0 | 85 | L | | | | | | | | |
| 15 | 400 | 7.1 | 91 | L | | | | | | | | |
| 16 | 398 | 7.0 | 91 | L | | | | | | | | |
| 17 | 386 | 5.6 | 79 | L | | | | | | | | |
| 18 | 386 | 6.0 | 78 | L | | | | | | | | |
| 19 | 398 | 6.9 | 95 | L | | | | | | | | |
| 20 | 389 | 7.2 | 98 | L | | | | | | | | |
| 21 | 396 | 7.5 | 93 | L | | | | | | | | |
| 22 | 394 | 7.2 | 87 | L | | | | | | | | |
| 23 | 412 | 7.4 | 59 | L | | | | | | | | |
| 24 | 409 | 7.2 | 79 | L | | | | | | | | |

APR. 9, 1978 99

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 417 | 7.0 | 114 | L | | | | | | | | |
| 424 | 5.9 | 114 | L | | | | | | | | |
| 435 | 6.0 | 161 | L | | | | | | | | |
| 461 | 0.0 | 0 | H | | | | | | | | |
| 436 | 6.2 | 128 | L | | | | | | | | |
| 413 | 6.1 | 118 | L | | | | | | | | |
| 398 | 5.7 | 84 | L | | | | | | | | |
| 391 | 5.4 | 70 | L | | | | | | | | |
| 397 | 0.0 | 0 | H | | | | | | | | |
| 378 | 5.5 | 54 | L | | | | | | | | |
| 410 | 5.8 | 64 | L | | | | | | | | |
| 394 | 6.1 | 55 | L | | | | | | | | |
| 386 | 5.3 | 56 | L | | | | | | | | |
| 380 | 5.9 | 52 | L | | | | | | | | |
| 386 | 5.5 | 52 | L | | | | | | | | |
| 392 | 6.3 | 49 | L | | | | | | | | |
| 394 | 6.4 | 47 | L | | | | | | | | |
| 406 | 5.4 | 52 | L | | | | | | | | |
| 373 | 5.5 | 43 | L | | | | | | | | |
| 372 | 5.3 | 55 | L | | | | | | | | |
| 376 | 4.6 | 82 | L | | | | | | | | |
| 400 | 4.9 | 89 | L | | | | | | | | |
| 414 | 5.4 | 98 | L | | | | | | | | |
| 401 | 4.9 | 96 | L | | | | | | | | |

APR. 10, 1978 100

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 399 | 4.8 | 88 | L | | | | | | | | |
| 2 | 396 | 4.9 | 81 | L | | | | | | | | |
| 3 | 392 | 4.9 | 77 | L | | | | | | | | |
| 4 | 391 | 5.4 | 76 | L | | | | | | | | |
| 5 | 392 | 5.3 | 74 | L | | | | | | | | |
| 6 | 383 | 5.3 | 75 | L | | | | | | | | |
| 7 | 387 | 5.2 | 72 | L | | | | | | | | |
| 8 | 381 | 5.5 | 71 | L | | | | | | | | |
| 9 | 385 | 5.5 | 66 | L | | | | | | | | |
| 10 | 394 | 5.3 | 63 | L | | | | | | | | |
| 11 | 401 | 5.9 | 65 | L | | | | | | | | |
| 12 | 378 | 5.7 | 69 | L | | | | | | | | |
| 13 | 385 | 5.7 | 63 | L | | | | | | | | |
| 14 | 483 | 15.6 | 339 | L | | | | | | | | |
| 15 | 546 | 19.4 | 486 | L | | | | | | | | |
| 16 | 553 | 16.5 | 599 | L | | | | | | | | |
| 17 | 638 | 16.7 | 532 | L | | | | | | | | |
| 18 | 654 | 18.6 | 484 | L | | | | | | | | |
| 19 | 662 | 21.3 | 455 | L | | | | | | | | |
| 20 | 646 | 23.3 | 455 | L | | | | | | | | |
| 21 | 639 | 50.7 | 231 | L | | | | | | | | |
| 22 | 642 | 47.5 | 232 | L | | | | | | | | |
| 23 | 594 | 11.3 | 37 | L | | | | | | | | |
| 24 | 619 | 7.2 | 42 | L | | | | | | | | |

APR. 11, 1978 101

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 609 | 5.8 | 76 | L | | | | | | | | |
| 582 | 0.0 | 0 | H | | | | | | | | |
| 574 | 4.7 | 59 | L | | | | | | | | |
| 556 | 4.7 | 64 | L | | | | | | | | |
| | | | | | | | | | | | |
| 535 | 15.6 | 31 | L | | | | | | | | |
| 537 | 13.9 | 45 | L | | | | | | | | |
| 542 | 19.9 | 36 | L | | | | | | | | |
| 541 | 15.8 | 52 | L | | | | | | | | |
| 532 | 14.6 | 29 | L | | | | | | | | |
| 533 | 17.8 | 32 | L | | | | | | | | |
| 519 | 28.1 | 24 | L | | | | | | | | |
| 518 | 25.3 | 25 | L | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 505 | 6.8 | 106 | L | | | | | | | | |
| 476 | 7.7 | 131 | L | | | | | | | | |
| 497 | 20.9 | 53 | L | | | | | | | | |
| 483 | 13.1 | 89 | L | | | | | | | | |
| 488 | 6.8 | 90 | L | | | | | | | | |
| 507 | 12.0 | 154 | L | | | | | | | | |
| 471 | 16.8 | 165 | L | | | | | | | | |
| 462 | 14.6 | 149 | L | | | | | | | | |

APR. 12, 1978 102

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 462 | 13.1 | 117 | L | | | | | | | | |
| 2 | 451 | 14.8 | 49 | L | | | | | | | | |
| 3 | 454 | 7.7 | 54 | L | | | | | | | | |
| 4 | 469 | 9.0 | 82 | L | | | | | | | | |
| 5 | 482 | 13.3 | 111 | L | 7.8 | 34 | 334 | 5.4 | -4.0 | 2.8 | 2 | J |
| 6 | 482 | 11.3 | 103 | J | 7.0 | 32 | 348 | 5.1 | -2.1 | 2.7 | 3 | J |
| 7 | 486 | 9.9 | 107 | L | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 580 | 4.5 | 243 | L | | | | | | | | |
| 10 | 607 | 4.5 | 229 | L | | | | | | | | |
| 11 | 607 | 4.5 | 204 | L | | | | | | | | |
| 12 | 576 | 3.8 | 129 | L | | | | | | | | |
| 13 | 583 | 4.5 | 160 | J | 7.4 | 49 | 328 | 3.8 | -3.4 | 4.6 | 3 | J |
| 14 | 599 | 4.1 | 181 | J | 7.1 | 49 | 310 | 2.7 | -4.2 | 4.0 | 3 | J |
| 15 | 570 | 5.4 | 194 | J | 6.4 | 29 | 352 | 4.7 | -1.3 | 2.3 | 3 | J |
| 16 | 592 | 4.2 | 163 | J | 6.3 | -32 | 9 | 3.9 | 1.4 | -2.2 | 4 | J |
| 17 | 617 | 3.2 | 159 | J | 4.9 | -15 | 28 | 4.0 | 2.4 | -0.4 | 1 | J |
| 18 | 614 | 3.0 | 157 | J | 3.9 | -28 | 343 | 2.2 | -0.1 | -1.4 | 3 | J |
| 19 | 574 | 2.0 | 164 | L | | | | | | | | |
| 20 | 570 | 2.6 | 91 | J | 2.5 | -59 | 130 | -0.6 | 1.3 | -0.9 | 2 | J |
| 21 | 531 | 3.6 | 91 | J | 2.1 | -31 | 190 | -1.0 | 0.2 | -0.6 | 2 | J |
| 22 | 532 | 4.1 | 85 | J | 2.8 | -32 | 146 | -1.8 | 1.7 | -0.5 | 1 | J |
| 23 | 519 | 5.1 | 71 | J | 3.2 | -41 | 161 | -0.6 | 0.5 | -0.3 | 3 | J |
| 24 | 550 | 6.0 | 60 | J | 4.7 | 10 | 220 | -3.1 | -2.6 | -0.8 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 547 | 6.1 | 60 | J | 5.0 | 59 | 238 | -1.3 | -3.9 | 2.3 | 2 | J |
| 557 | 2.5 | 97 | J | 4.5 | 22 | 309 | 2.2 | -3.1 | -0.1 | 2 | J |
| 535 | 4.1 | 80 | J | 4.2 | 19 | 297 | 1.7 | -3.6 | -0.4 | 1 | J |
| 540 | 4.7 | 54 | J | 4.9 | 27 | 281 | 0.8 | -4.6 | 0.2 | 2 | J |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 501 | 6.7 | 86 | J | 6.2 | 32 | 334 | 4.5 | -2.9 | 2.5 | 2 | J |
| 508 | 6.8 | 108 | J | 6.0 | 24 | 301 | 2.5 | -4.6 | 1.3 | 2 | J |
| 498 | 7.6 | 94 | J | 6.2 | 7 | 301 | 2.9 | -4.8 | -0.2 | 2 | J |
| 508 | 7.4 | 96 | J | 5.9 | 11 | 299 | 2.3 | -4.2 | 0.2 | 3 | J |
| 497 | 7.3 | 101 | J | 5.5 | 10 | 331 | 4.0 | -2.4 | 0.4 | 3 | J |
| 503 | 7.2 | 106 | J | 5.3 | 17 | 333 | 2.9 | -1.6 | 0.7 | 4 | J |
| 512 | 7.1 | 107 | J | 5.0 | 16 | 320 | 1.9 | -1.7 | 0.3 | 4 | J |
| 513 | 7.5 | 117 | J | 5.2 | -38 | 312 | 1.6 | -1.2 | -2.2 | 4 | J |
| 517 | 7.6 | 118 | J | 5.2 | -22 | 281 | 0.6 | -2.5 | -2.2 | 4 | J |
| 530 | 7.5 | 148 | J | 5.1 | -13 | 250 | -1.4 | -3.2 | -2.3 | 3 | J |
| 500 | 7.7 | 152 | J | 5.0 | -27 | 327 | 2.8 | -0.9 | -2.3 | 3 | J |
| 499 | 7.9 | 183 | J | 4.4 | 29 | 338 | 2.2 | -1.4 | 0.8 | 4 | J |
| 543 | 13.7 | 252 | J | 7.5 | 18 | 264 | -0.2 | -2.2 | -0.5 | 7 | J |
| 557 | 17.5 | 364 | J | 8.6 | -11 | 277 | 0.8 | -5.0 | -4.6 | 5 | J |
| 577 | 19.4 | 352 | J | 10.9 | 12 | 275 | 0.7 | -7.3 | -2.8 | 8 | J |
| 589 | 18.9 | 394 | J | 9.9 | 8 | 257 | -1.7 | -6.8 | -3.2 | 6 | J |
| 584 | 16.3 | 378 | J | 10.1 | -43 | 259 | -1.3 | -2.2 | -9.2 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 528 | 14.0 | 348 | J | 9.4 | -4 | 320 | 5.6 | -3.7 | -2.9 | 6 | J |
| 2 | 502 | 11.6 | 297 | J | 8.9 | 0 | 331 | 6.9 | -3.3 | -1.9 | 4 | J |
| 3 | 506 | 10.8 | 373 | J | 8.7 | 22 | 312 | 4.8 | -6.1 | 0.1 | 4 | J |
| 4 | 506 | 9.1 | 311 | J | 8.1 | -27 | 313 | 3.5 | -2.3 | -4.0 | 6 | J |
| 5 | 490 | 7.9 | 248 | J | 8.5 | -7 | 310 | 4.3 | -4.5 | -2.7 | 5 | J |
| 6 | 495 | 9.6 | 249 | J | 9.4 | -3 | 307 | 5.3 | -6.5 | -2.7 | 3 | J |
| 7 | 522 | 11.8 | 322 | J | 10.2 | 8 | 301 | 4.3 | -7.3 | -0.9 | 6 | J |
| 8 | 527 | 12.4 | 375 | J | 9.8 | 0 | 347 | 5.0 | -1.1 | -0.3 | 8 | J |
| 9 | 547 | 12.8 | 333 | J | 10.1 | 58 | 292 | 1.8 | -5.9 | 6.6 | 5 | J |
| 10 | 573 | 12.1 | 324 | J | 9.7 | 33 | 104 | -1.8 | 6.3 | 6.2 | 4 | J |
| 11 | | | | | 12.5 | -43 | 108 | -2.7 | 9.5 | -6.5 | 4 | J |
| 12 | 549 | 19.7 | 38 | J | 12.4 | -61 | 350 | 5.8 | 0.9 | -10.6 | 2 | J |
| 13 | 554 | 27.0 | 51 | J | 9.3 | -68 | 2 | 2.7 | 1.4 | -6.5 | 6 | J |
| 14 | 540 | 28.0 | 75 | J | 8.9 | -20 | 39 | 4.1 | 3.7 | -1.1 | 7 | J |
| 15 | 547 | 22.9 | 60 | J | 8.3 | 11 | 97 | -1.0 | 7.3 | 3.6 | 2 | J |
| 16 | 530 | 15.3 | 35 | J | 8.0 | 27 | 309 | 4.4 | -6.2 | 1.7 | 2 | J |
| 17 | 535 | 16.3 | 31 | J | 7.5 | 20 | 321 | 5.3 | -4.9 | 0.8 | 2 | J |
| 18 | 539 | 15.9 | 31 | J | 8.0 | 13 | 312 | 5.1 | -5.9 | -0.7 | 2 | J |
| 19 | 536 | 7.4 | 16 | L | 7.9 | 17 | 315 | 5.3 | -5.7 | -0.4 | 1 | J |
| 20 | 528 | 15.9 | 32 | J | 6.8 | -3 | 340 | 6.3 | -1.8 | -1.4 | 1 | J |
| 21 | 541 | 15.5 | 31 | J | 7.2 | 11 | 327 | 5.8 | -3.9 | -0.8 | 1 | J |
| 22 | 528 | 14.8 | 33 | J | 7.0 | 15 | 323 | 5.3 | -4.3 | -0.7 | 1 | J |
| 23 | 526 | 11.8 | 36 | J | 7.5 | 20 | 321 | 5.3 | -4.9 | -0.3 | 2 | J |
| 24 | 513 | 8.3 | 47 | J | 7.7 | -39 | 329 | 4.8 | 0.0 | -5.4 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 512 | 5.2 | 51 | J | 8.3 | -28 | 324 | 5.9 | -1.6 | -5.5 | 1 | J |
| 506 | 5.3 | 44 | J | 8.6 | -6 | 315 | 5.8 | -4.6 | -3.6 | 3 | J |
| 507 | 4.9 | 44 | J | 8.5 | 6 | 314 | 5.7 | -5.6 | -2.0 | 2 | J |
| 523 | 4.2 | 70 | J | 8.4 | 12 | 310 | 4.8 | -5.8 | -1.0 | 3 | J |
| 547 | 4.0 | 159 | J | 7.4 | 19 | 301 | 3.4 | -6.1 | -0.0 | 2 | J |
| 567 | 3.6 | 178 | J | 7.2 | 22 | 285 | 1.5 | -5.9 | 0.4 | 4 | J |
| 547 | 3.6 | 164 | J | 7.0 | 7 | 295 | 2.4 | -5.2 | -0.8 | 4 | J |
| 549 | 3.9 | 165 | J | 7.0 | 32 | 295 | 2.2 | -5.3 | 2.0 | 3 | J |
| 559 | 3.9 | 150 | J | 6.6 | -2 | 279 | 0.9 | -5.7 | -1.4 | 3 | J |
| 573 | 3.7 | 114 | J | 6.5 | -3 | 286 | 1.5 | -5.2 | -1.3 | 3 | J |
| 548 | 4.2 | 142 | J | 6.2 | 9 | 300 | 2.8 | -4.9 | 0.0 | 3 | J |
| 554 | 4.3 | 136 | J | 6.0 | 2 | 302 | 2.7 | -4.3 | -0.6 | 3 | J |
| 546 | 4.0 | 120 | J | 6.1 | 11 | 302 | 2.7 | -4.4 | 0.2 | 3 | J |
| 552 | 3.7 | 102 | J | 5.8 | -17 | 288 | 1.5 | -4.3 | -2.5 | 3 | J |
| 546 | 3.7 | 91 | J | 5.1 | -8 | 298 | 1.8 | -3.1 | -1.4 | 3 | J |
| 509 | 3.8 | 53 | J | 5.8 | -5 | 349 | 5.6 | -0.9 | -0.8 | 1 | J |
| 517 | 3.7 | 73 | J | 5.8 | 3 | 336 | 4.7 | -2.1 | -0.5 | 2 | J |
| 516 | 3.4 | 57 | J | 5.5 | 8 | 338 | 4.7 | -2.0 | -0.1 | 2 | J |
| 505 | 3.0 | 48 | J | 5.2 | 6 | 0 | 5.0 | -0.2 | 0.5 | 1 | J |
| 504 | 3.6 | 51 | J | 5.2 | 2 | 341 | 4.8 | -1.5 | -0.7 | 1 | J |
| 499 | 3.6 | 57 | J | 5.1 | 2 | 347 | 4.8 | -1.0 | -0.4 | 1 | J |
| 499 | 3.6 | 53 | J | 5.1 | 0 | 346 | 4.8 | -1.0 | -0.6 | 1 | J |
| 502 | 3.5 | 55 | J | 5.3 | -10 | 351 | 4.7 | -0.2 | -1.1 | 2 | J |
| 503 | 3.8 | 50 | J | 5.9 | -1 | 327 | 4.8 | -2.6 | -1.8 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 504 | 3.8 | 55 | J | 6.0 | -3 | 322 | 4.6 | -2.9 | -2.1 | 1 | J |
| 2 | 495 | 3.6 | 60 | J | 5.9 | 6 | 335 | 5.1 | -2.4 | -0.7 | 2 | J |
| 3 | 493 | 3.7 | 78 | J | 5.9 | 2 | 337 | 5.2 | -2.1 | -0.8 | 1 | J |
| 4 | 488 | 3.7 | 83 | J | 6.0 | -8 | 328 | 4.5 | -2.3 | -1.9 | 2 | J |
| 5 | 481 | 3.7 | 107 | J | 5.9 | 23 | 350 | 5.3 | -1.7 | 1.8 | 1 | J |
| 6 | 462 | 3.9 | 58 | J | 5.6 | 11 | 349 | 5.3 | -1.3 | 0.7 | 1 | J |
| 7 | 464 | 3.6 | 75 | J | 5.6 | 10 | 335 | 4.8 | -2.4 | 0.3 | 1 | J |
| 8 | 467 | 3.1 | 110 | J | 5.8 | 25 | 348 | 4.9 | -1.6 | 2.0 | 2 | J |
| 9 | 488 | 3.2 | 70 | J | 5.7 | 12 | 302 | 2.7 | -4.5 | 0.2 | 2 | J |
| 10 | 456 | 3.2 | 49 | J | 5.3 | 17 | 315 | 3.4 | -3.6 | 0.8 | 2 | J |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 456 | 2.9 | 61 | J | 5.1 | 13 | 304 | 2.7 | -4.1 | 0.4 | 1 | J |
| 13 | 451 | 3.5 | 47 | J | 5.0 | 13 | 295 | 2.0 | -4.4 | 0.3 | 1 | J |
| 14 | 445 | 3.4 | 55 | J | 5.1 | 41 | 334 | 3.3 | -2.3 | 2.8 | 1 | J |
| 15 | 430 | 3.2 | 48 | J | 4.9 | 38 | 334 | 3.3 | -2.3 | 2.3 | 2 | J |
| 16 | 421 | 3.3 | 47 | J | 4.9 | 41 | 338 | 3.3 | -2.2 | 2.5 | 1 | J |
| 17 | 414 | 3.4 | 32 | J | 4.8 | 16 | 326 | 3.6 | -2.7 | 0.3 | 1 | J |
| 18 | 421 | 3.5 | 41 | J | 4.9 | 38 | 320 | 2.8 | -3.3 | 1.7 | 1 | J |
| 19 | 407 | 3.5 | 29 | J | 5.1 | 20 | 327 | 3.9 | -3.1 | 0.4 | 1 | J |
| 20 | 422 | 6.6 | 32 | J | 3.9 | -6 | 278 | 0.5 | -2.8 | -2.0 | 2 | J |
| 21 | 412 | 5.7 | 32 | J | 3.9 | 35 | 291 | 0.8 | -2.7 | 0.3 | 3 | J |
| 22 | 403 | 6.3 | 35 | J | 4.2 | 60 | 336 | 1.5 | -2.0 | 2.0 | 3 | J |
| 23 | 383 | 6.5 | 52 | J | 4.4 | -1 | 332 | 3.6 | -1.6 | -1.1 | 1 | J |
| 24 | 393 | 6.6 | 48 | J | 4.3 | 19 | 314 | 2.5 | -2.8 | -0.3 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 391 | 6.5 | 33 | J | 4.4 | 56 | 322 | 1.9 | -3.1 | 2.3 | 1 | J |
| 2 | 386 | 6.9 | 51 | J | 4.4 | 22 | 314 | 2.6 | -3.1 | -0.0 | 2 | J |
| 3 | 380 | 6.1 | 36 | J | 4.3 | 1 | 321 | 3.2 | -2.3 | -1.1 | 1 | J |
| 4 | 373 | 5.8 | 22 | J | 4.3 | -8 | 348 | 4.1 | -0.5 | -0.9 | 1 | J |
| 5 | 374 | 6.2 | 22 | J | 4.4 | -12 | 332 | 3.6 | -1.5 | -1.5 | 1 | J |
| 6 | 367 | 6.0 | 29 | J | 4.6 | -2 | 347 | 4.4 | -0.9 | -0.5 | 1 | J |
| 7 | 366 | 5.8 | 32 | J | 4.4 | 1 | 3 | 4.3 | 0.2 | 0.1 | 1 | J |
| 8 | 366 | 5.4 | 37 | J | 4.1 | -2 | 356 | 4.0 | -0.2 | -0.2 | 1 | J |
| 9 | 366 | 6.3 | 31 | J | 4.4 | -15 | 337 | 3.7 | -1.3 | -1.4 | 1 | J |
| 10 | 370 | 7.2 | 28 | J | 4.4 | -28 | 323 | 2.9 | -1.8 | -2.3 | 2 | J |
| 11 | 374 | 8.0 | 23 | J | 3.8 | -36 | 293 | 1.1 | -2.3 | -2.5 | 1 | J |
| 12 | 373 | 8.8 | 27 | J | 3.7 | -24 | 259 | -0.6 | -2.8 | -1.9 | 2 | J |
| 13 | 339 | 0.0 | 0 | H | 5.1 | 54 | 207 | -2.6 | -2.0 | 3.7 | 2 | J |
| 14 | 387 | 9.8 | 36 | J | 3.7 | 35 | 213 | -2.5 | -2.0 | 1.7 | 2 | J |
| 15 | 385 | 12.0 | 39 | J | 3.0 | 3 | 162 | -1.6 | 0.5 | 0.2 | 3 | J |
| 16 | 391 | 13.9 | 46 | J | 2.3 | 22 | 141 | -1.6 | 1.0 | 1.2 | 1 | J |
| 17 | 374 | 7.1 | 30 | J | 6.2 | 24 | 133 | -3.8 | 2.9 | 3.8 | 1 | J |
| 18 | 373 | 7.1 | 32 | J | 6.9 | 27 | 124 | -3.4 | 3.4 | 4.8 | 1 | J |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 389 | 8.7 | 81 | J | 5.6 | 45 | 113 | -1.2 | 0.9 | 4.2 | 3 | J |
| 22 | 381 | 8.1 | 76 | J | 5.2 | 30 | 129 | -2.3 | 1.3 | 3.3 | 3 | J |
| 23 | 389 | 8.2 | 85 | J | 6.0 | -1 | 98 | -0.8 | 4.9 | 3.0 | 1 | J |
| 24 | 414 | 11.5 | 126 | J | 9.6 | 20 | 112 | -3.3 | 5.2 | 7.0 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 458 | 17.0 | 197 | J | 13.0 | -8 | 110 | -4.3 | 10.9 | 4.6 | 3 | J |
| 2 | 448 | 16.9 | 120 | J | 14.5 | -15 | 118 | -6.4 | 12.3 | 2.7 | 3 | J |
| 3 | 434 | 14.7 | 62 | J | 15.4 | -53 | 133 | -6.0 | 10.9 | -7.4 | 5 | J |
| 4 | 439 | 16.4 | 74 | J | 14.6 | -61 | 114 | -2.7 | 10.5 | -8.5 | 5 | J |
| 5 | 441 | 16.1 | 75 | J | 14.8 | -13 | 117 | -6.2 | 12.5 | 1.5 | 5 | J |
| 6 | 429 | 13.3 | 79 | J | 14.6 | -4 | 116 | -6.3 | 12.6 | 3.1 | 3 | J |
| 7 | 424 | 10.8 | 69 | J | 14.6 | 3 | 111 | -5.2 | 12.8 | 4.4 | 2 | J |
| 8 | 436 | 10.4 | 68 | J | 14.4 | -16 | 115 | -5.7 | 12.8 | -1.0 | 3 | J |
| 9 | 415 | 8.9 | 53 | J | 14.8 | 5 | 124 | -8.2 | 11.7 | 3.6 | 2 | J |
| 10 | 417 | 8.2 | 58 | J | 14.9 | 5 | 124 | -8.2 | 11.8 | 3.4 | 2 | J |
| 11 | 418 | 8.4 | 75 | J | 14.8 | 4 | 124 | -8.2 | 11.8 | 3.0 | 2 | J |
| 12 | 419 | 9.9 | 80 | J | 14.6 | 9 | 123 | -7.7 | 11.4 | 4.2 | 3 | J |
| 13 | 414 | 11.2 | 81 | J | 14.4 | 18 | 125 | -7.8 | 10.2 | 6.4 | 1 | J |
| 14 | 411 | 11.2 | 68 | J | 14.4 | 20 | 125 | -7.7 | 9.7 | 7.1 | 2 | J |
| 15 | 426 | 11.6 | 58 | J | 14.6 | 5 | 125 | -8.2 | 11.1 | 4.1 | 2 | J |
| 16 | 421 | 10.7 | 80 | L |  |  |  |  |  |  |  |  |
| 17 | 430 | 7.9 | 74 | L |  |  |  |  |  |  |  |  |
| 18 | 478 | 4.6 | 96 | L |  |  |  |  |  |  |  |  |
| 19 | 501 | 2.4 | 78 | L |  |  |  |  |  |  |  |  |
| 20 | 365 | 1.1 | 91 | L |  |  |  |  |  |  |  |  |
| 21 | 378 | 1.5 | 49 | L |  |  |  |  |  |  |  |  |
| 22 | 465 | 2.8 | 40 | L |  |  |  |  |  |  |  |  |
| 23 | 482 | 4.3 | 49 | L |  |  |  |  |  |  |  |  |
| 24 | 488 | 2.6 | 40 | L |  |  |  |  |  |  |  |  |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | 470 | 3.6 | 33 | L |
| 2 | 490 | 9.0 | 152 | L |
| 3 | 475 | 7.4 | 102 | L |
| 4 | 517 | 14.0 | 207 | L |
| 5 | 533 | 18.1 | 238 | L |
| 6 |  |  |  |  |
| 7 | 622 | 0.0 | 0 | H |
| 8 |  |  |  |  |
| 9 | 650 | 0.0 | 0 | H |
| 10 | 651 | 9.6 | 453 | L |
| 11 | 637 | 8.8 | 344 | L |
| 12 |  |  |  |  |
| 13 | 628 | 8.6 | 464 | L |
| 14 | 672 | 9.5 | 550 | L |
| 15 |  |  |  |  |
| 16 |  |  |  |  |
| 17 | 629 | 7.0 | 403 | L |
| 18 | 616 | 5.9 | 312 | L |
| 19 | 685 | 10.0 | 497 | L |
| 20 | 672 | 8.1 | 485 | L |
| 21 | 717 | 7.8 | 518 | L |
| 22 | 733 | 6.8 | 468 | L |
| 23 | 698 | 6.6 | 388 | L |
| 24 | 669 | 7.5 | 351 | L |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | 674 | 7.3 | 329 | L |
| 2 | 705 | 7.1 | 405 | L |
| 3 | 715 | 7.2 | 417 | L |
| 4 | 769 | 6.5 | 343 | L |
| 5 | 817 | 6.6 | 335 | L |
| 6 | 789 | 6.6 | 383 | L |
| 7 |  |  |  |  |
| 8 | 736 | 6.0 | 296 | L |
| 9 | 699 | 4.3 | 264 | L |
| 10 | 668 | 10.8 | 259 | L |
| 11 | 690 | 10.3 | 287 | L |
| 12 | 696 | 4.0 | 202 | L |
| 13 | 663 | 5.6 | 253 | L |
| 14 | 601 | 6.0 | 178 | L |
| 15 | 603 | 6.0 | 177 | L |
| 16 |  |  |  |  |
| 17 |  |  |  |  |
| 18 |  |  |  |  |
| 19 |  |  |  |  |
| 20 |  |  |  |  |
| 21 |  |  |  |  |
| 22 |  |  |  |  |
| 23 | 595 | 0.0 | 0 | H |
| 24 |  |  |  |  |

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111

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 | 643 | 2.9 | 281 | L |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 | 588 | 0.0 | 0 | H |
| 11 | 553 | 0.0 | 0 | H |
| 12 | 578 | 2.4 | 137 | L |
| 13 |  |  |  |  |
| 14 | 588 | 2.7 | 159 | L |
| 15 | 550 | 2.7 | 127 | L |
| 16 | 537 | 2.3 | 113 | L |
| 17 | 549 | 3.2 | 137 | L |
| 18 |  |  |  |  |
| 19 |  |  |  |  |
| 20 |  |  |  |  |
| 21 | 516 | 2.9 | 104 | L |
| 22 | 546 | 4.0 | 156 | L |
| 23 | 522 | 3.3 | 109 | L |
| 24 |  |  |  |  |

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112

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | 503 | 3.3 | 95 | L |
| 2 | 515 | 4.0 | 112 | L |
| 3 | 505 | 3.3 | 101 | L |
| 4 | 507 | 3.7 | 120 | L |
| 5 | 506 | 3.8 | 110 | L |
| 6 | 496 | 4.0 | 112 | L |
| 7 | 489 | 4.2 | 105 | L |
| 8 | 536 | 0.0 | 0 | H |
| 9 | 457 | 0.0 | 0 | H |
| 10 |  |  |  |  |
| 11 | 489 | 9.4 | 60 | L |
| 12 | 485 | 0.0 | 0 | H |
| 13 | 477 | 14.5 | 43 | L |
| 14 | 480 | 16.3 | 40 | L |
| 15 |  |  |  |  |
| 16 |  |  |  |  |
| 17 | 469 | 11.3 | 51 | L |
| 18 | 465 | 11.3 | 67 | L |
| 19 | 449 | 7.9 | 49 | L |
| 20 | 462 | 8.9 | 92 | L |
| 21 | 459 | 7.6 | 90 | L |
| 22 | 459 | 6.7 | 106 | L |
| 23 | 450 | 7.0 | 108 | L |
| 24 | 434 | 6.9 | 101 | L |

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113

| HR | VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|---|
| 1 | 434 | 7.3 | 104 | L |
| 2 | 456 | 7.6 | 116 | L |
| 3 | 453 | 7.0 | 125 | L |
| 4 | 455 | 7.0 | 131 | L |
| 5 |  |  |  |  |
| 6 | 470 | 0.0 | 0 | H |
| 7 | 445 | 6.7 | 135 | L |
| 8 |  |  |  |  |
| 9 |  |  |  |  |
| 10 |  |  |  |  |
| 11 | 478 | 7.0 | 156 | L |
| 12 | 474 | 6.7 | 143 | L |
| 13 | 467 | 8.2 | 185 | L |
| 14 | 475 | 11.7 | 178 | L |
| 15 | 485 | 16.4 | 211 | L |
| 16 | 488 | 14.5 | 215 | L |
| 17 |  |  |  |  |
| 18 |  |  |  |  |
| 19 | 494 | 9.0 | 351 | L |
| 20 | 515 | 8.2 | 356 | L |
| 21 | 511 | 7.5 | 338 | L |
| 22 | 511 | 7.5 | 332 | L |
| 23 | 535 | 7.7 | 386 | L |
| 24 | 550 | 9.4 | 424 | L |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 548 | 7.4 | 385 | L | | | | | | | | |
| 2 | 537 | 6.6 | 385 | L | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 597 | 7.4 | 513 | L | | | | | | | | |
| 6 | 593 | 0.0 | 0 | H | | | | | | | | |
| 7 | 600 | 7.6 | 508 | L | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 627 | 3.2 | 341 | L | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 640 | 3.2 | 369 | L | | | | | | | | |
| 14 | 652 | 3.4 | 407 | L | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 608 | 3.1 | 295 | L | | | | | | | | |
| 17 | 577 | 3.6 | 230 | L | | | | | | | | |
| 18 | 547 | 4.2 | 242 | L | | | | | | | | |
| 19 | 557 | 3.9 | 215 | L | | | | | | | | |
| 20 | 526 | 3.3 | 175 | L | | | | | | | | |
| 21 | 510 | 3.2 | 140 | L | | | | | | | | |
| 22 | 527 | 3.8 | 166 | L | | | | | | | | |
| 23 | 536 | 3.9 | 166 | L | | | | | | | | |
| 24 | 547 | 3.9 | 152 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 550 | 3.3 | 140 | J | 6.7 | 14 | 326 | 4.7 | -3.5 | -0.3 | 3 | J |
| 2 | 547 | 3.5 | 165 | J | 6.6 | 12 | 348 | 5.0 | -1.4 | 0.5 | 4 | J |
| 3 | 543 | 3.6 | 186 | J | 6.5 | -14 | 320 | 4.4 | -2.7 | -2.9 | 3 | J |
| 4 | 541 | 3.5 | 159 | J | 6.7 | -5 | 322 | 4.5 | -3.0 | -1.8 | 3 | J |
| 5 | 517 | 3.5 | 121 | J | 6.5 | 13 | 349 | 6.0 | -1.6 | 0.9 | 1 | J |
| 6 | 530 | 3.9 | 167 | J | 6.7 | -16 | 319 | 4.5 | -3.3 | -2.8 | 2 | J |
| 7 | 550 | 4.0 | 154 | J | 6.2 | -44 | 322 | 3.2 | -1.5 | -4.4 | 3 | J |
| 8 | 531 | 4.3 | 186 | J | 5.3 | -20 | 347 | 3.8 | -0.6 | -1.6 | 3 | J |
| 9 | 547 | 5.4 | 178 | J | 4.6 | 57 | 31 | 1.8 | 0.5 | 3.4 | 3 | J |
| 10 | 539 | 5.2 | 147 | J | 5.2 | -14 | 31 | 2.4 | 1.5 | -0.5 | 4 | J |
| 11 | | | | | 6.2 | 18 | 56 | 3.2 | 4.5 | 2.5 | 1 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 530 | 5.6 | 174 | L | 5.7 | 24 | 294 | 1.7 | -4.0 | 1.1 | 3 | J |
| 15 | 530 | 6.4 | 195 | L | 5.5 | 35 | 359 | 3.9 | -0.7 | 2.7 | 3 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 542 | 6.2 | 122 | L | 5.2 | 54 | 287 | 0.9 | -4.1 | 2.7 | 1 | J |
| 19 | 558 | 6.3 | 126 | J | 3.9 | -43 | 259 | -0.3 | -0.8 | -2.0 | 3 | J |
| 20 | 537 | 6.6 | 157 | J | 3.8 | -27 | 339 | 1.6 | -0.1 | -1.0 | 3 | J |
| 21 | 537 | 6.3 | 136 | J | 4.1 | -35 | 310 | 1.7 | -0.8 | -2.6 | 3 | J |
| 22 | 519 | 6.1 | 99 | J | 4.5 | -20 | 322 | 2.9 | -1.3 | -2.3 | 2 | J |
| 23 | 517 | 6.4 | 92 | J | 4.1 | -12 | 304 | 1.8 | -1.9 | -1.9 | 3 | J |
| 24 | 494 | 6.4 | 81 | J | 4.5 | -6 | 327 | 3.4 | -1.7 | -1.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 420 | 9.7 | 77 | J | 6.6 | -1 | 292 | 2.4 | -5.2 | -3.0 | 1 | J |
| 2 | 422 | 9.4 | 65 | J | 6.8 | -12 | 293 | 2.3 | -4.2 | -3.5 | 3 | J |
| 3 | 434 | 8.2 | 78 | J | 7.2 | -6 | 280 | 1.2 | -5.7 | -3.4 | 2 | J |
| 4 | 408 | 6.8 | 57 | J | 7.6 | 4 | 314 | 4.8 | -4.8 | -1.4 | 3 | J |
| 5 | | | | | 7.8 | 12 | 334 | 6.6 | -3.6 | 0.4 | 2 | J |
| 6 | 413 | 3.9 | 41 | J | 7.8 | 20 | 350 | 7.1 | -1.9 | 2.2 | 1 | J |
| 7 | 477 | 3.8 | 113 | J | 7.5 | 2 | 297 | 2.9 | -5.6 | -1.1 | 4 | J |
| 8 | 480 | 3.3 | 112 | J | 7.2 | 4 | 299 | 3.3 | -6.0 | -0.7 | 2 | J |
| 9 | 487 | 3.4 | 110 | J | 7.4 | 2 | 289 | 2.3 | -6.8 | -0.8 | 1 | J |
| 10 | 468 | 3.3 | 94 | J | 7.2 | 12 | 319 | 5.1 | -4.6 | 0.8 | 2 | J |
| 11 | 482 | 3.0 | 88 | J | 7.1 | 4 | 295 | 2.6 | -5.6 | -0.3 | 3 | J |
| 12 | 470 | 2.7 | 85 | J | 7.1 | 16 | 306 | 3.8 | -5.5 | 1.2 | 2 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 458 | 2.4 | 68 | J | 6.8 | 20 | 311 | 3.8 | -4.8 | 0.9 | 3 | J |
| 17 | 463 | 2.4 | 75 | J | 6.6 | 10 | 302 | 3.2 | -5.3 | -0.6 | 2 | J |
| 18 | 478 | 2.4 | 65 | J | 6.7 | 28 | 289 | 1.9 | -6.4 | 0.9 | 0 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 423 | 2.5 | 57 | J | 6.3 | 5 | 318 | 4.5 | -3.8 | -1.6 | 2 | J |
| 23 | 437 | 2.6 | 52 | J | 6.1 | 1 | 304 | 3.4 | -4.4 | -2.5 | 1 | J |
| 24 | 414 | 2.5 | 52 | J | 5.7 | 6 | 322 | 4.4 | -3.3 | -1.2 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 5.1 | 28 | J | 5.7 | 9 | 285 | 1.3 | -4.5 | -1.6 | 3 | J |
| 2 | 375 | 6.0 | 26 | J | 6.8 | -17 | 274 | 0.4 | -4.7 | -4.5 | 2 | J |
| 3 | 377 | 5.6 | 25 | J | 6.6 | -21 | 264 | -0.6 | -4.5 | -4.6 | 1 | J |
| 4 | 377 | 5.6 | 25 | J | 6.5 | -23 | 261 | -0.9 | -4.5 | -4.5 | 1 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 358 | 5.1 | 59 | L | | | | | | | | |
| 10 | 360 | 6.3 | 60 | L | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 514 | 23.2 | 169 | J | 23.5 | 18 | 301 | 9.3 | -16.0 | 3.7 | 14 | J |
| 14 | 529 | 25.3 | 272 | J | 17.5 | 11 | 286 | 3.9 | -14.0 | 0.5 | 10 | J |
| 15 | 533 | 24.6 | 271 | J | 15.6 | 2 | 274 | 0.8 | -10.6 | -1.8 | 12 | J |
| 16 | 526 | 28.7 | 208 | J | 16.1 | -45 | 273 | 0.6 | -7.8 | -13.5 | 4 | J |
| 17 | 518 | 24.1 | 305 | J | 15.6 | -2 | 118 | -2.3 | 4.3 | 1.2 | 15 | J |
| 18 | 531 | 13.7 | 508 | J | 17.5 | 39 | 99 | -1.9 | 7.7 | 13.8 | 7 | J |
| 19 | 536 | 12.9 | 429 | J | 16.4 | 44 | 121 | -5.6 | 4.2 | 13.4 | 6 | J |
| 20 | 516 | 10.3 | 400 | J | 16.6 | 19 | 121 | -7.7 | 9.1 | 10.4 | 5 | J |
| 21 | 515 | 12.1 | 349 | J | 14.4 | -24 | 138 | -9.0 | 9.7 | -0.8 | 5 | J |
| 22 | 508 | 13.7 | 235 | J | 13.2 | -55 | 143 | -5.9 | 9.1 | -7.0 | 3 | J |
| 23 | 507 | 14.6 | 245 | J | 11.3 | -26 | 150 | -7.6 | 6.0 | -1.5 | 6 | J |
| 24 | 531 | 13.4 | 312 | J | 8.0 | 68 | 98 | -0.4 | -1.0 | 7.6 | 2 | J |

APR. 25, 1978 115

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 535 | 4.2 | 158 | L | | | | | | | | |
| 2 | 549 | 3.3 | 144 | L | | | | | | | | |
| 3 | 532 | 3.6 | 154 | L | | | | | | | | |
| 4 | 485 | 3.7 | 130 | L | | | | | | | | |
| 5 | 500 | 4.1 | 138 | L | | | | | | | | |
| 6 | 499 | 4.9 | 139 | L | | | | | | | | |
| 7 | 499 | 4.0 | 128 | L | | | | | | | | |
| 8 | 520 | 4.0 | 110 | J | 6.1 | -43 | 320 | 2.8 | -1.6 | -3.8 | 3 | J |
| 9 | 519 | 4.2 | 106 | J | 6.7 | 14 | 309 | 3.0 | -3.8 | 0.5 | 4 | J |
| 10 | 542 | 4.1 | 98 | J | 6.7 | -18 | 266 | -0.4 | -5.0 | -2.5 | 4 | J |
| 11 | 487 | 4.0 | 99 | J | 6.8 | -11 | 328 | 4.9 | -2.9 | -1.5 | 2 | J |
| 12 | 481 | 3.9 | 88 | J | 6.1 | 0 | 353 | 5.8 | -0.7 | -0.1 | 2 | J |
| 13 | 507 | 3.3 | 126 | L | 5.6 | -30 | 318 | 3.2 | -2.4 | -2.9 | 3 | J |
| 14 | 489 | 5.5 | 101 | J | 8.6 | 6 | 322 | 6.2 | -4.9 | -0.1 | 3 | J |
| 15 | 486 | 5.5 | 91 | J | 9.0 | 16 | 333 | 7.3 | -4.1 | 1.4 | 3 | J |
| 16 | 500 | 5.3 | 105 | J | 8.1 | 12 | 320 | 5.4 | -4.8 | 0.2 | 3 | J |
| 17 | 518 | 4.7 | 103 | J | 7.8 | 11 | 320 | 4.9 | -4.3 | -0.2 | 4 | J |
| 18 | 519 | 4.4 | 119 | J | 7.5 | 9 | 317 | 4.9 | -4.6 | -0.8 | 3 | J |
| 19 | 503 | 4.2 | 75 | J | 7.4 | 17 | 341 | 6.4 | -2.9 | 0.9 | 2 | J |
| 20 | 516 | 4.3 | 136 | J | 6.6 | 22 | 340 | 5.4 | -2.8 | 1.1 | 2 | J |
| 21 | 523 | 4.2 | 187 | J | 6.9 | 23 | 6 | 6.0 | -0.7 | 2.6 | 2 | J |
| 22 | 528 | 4.1 | 171 | J | 6.7 | 18 | 346 | 5.6 | -2.2 | 0.9 | 3 | J |
| 23 | 545 | 3.8 | 136 | J | 7.0 | 19 | 333 | 4.9 | -3.1 | 0.3 | 4 | J |
| 24 | 543 | 3.6 | 112 | J | 6.8 | 26 | 349 | 5.6 | -2.4 | 1.9 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 507 | 6.0 | 73 | J | 4.1 | 39 | 263 | -0.3 | -3.3 | 0.6 | 2 | J |
| 2 | 497 | 6.1 | 77 | J | 4.2 | -9 | 272 | 0.1 | -2.3 | -1.7 | 3 | J |
| 3 | 466 | 6.1 | 84 | J | 4.6 | 17 | 328 | 3.3 | -2.4 | 0.2 | 2 | J |
| 4 | 478 | 6.5 | 54 | J | 4.8 | 15 | 322 | 3.3 | -2.8 | 0.1 | 2 | J |
| 5 | 483 | 7.1 | 77 | J | 5.2 | 43 | 290 | 1.0 | -3.6 | 1.7 | 3 | J |
| 6 | 449 | 6.9 | 60 | J | 6.4 | 26 | 330 | 4.5 | -3.2 | 1.7 | 3 | J |
| 7 | 455 | 6.9 | 72 | J | 5.6 | -10 | 358 | 4.4 | 0.0 | -0.8 | 3 | J |
| 8 | 458 | 6.7 | 98 | J | 4.9 | 28 | 329 | 3.0 | -2.2 | 1.5 | 3 | J |
| 9 | 449 | 7.8 | 124 | J | 5.1 | 26 | 349 | 4.2 | -1.2 | 1.9 | 2 | J |
| 10 | 445 | 7.6 | 127 | J | 5.1 | -4 | 323 | 3.9 | -2.9 | -0.7 | 1 | J |
| 11 | 448 | 8.0 | 98 | J | 5.0 | -37 | 46 | 2.5 | 2.9 | -2.4 | 2 | J |
| 12 | 459 | 8.5 | 100 | J | 4.4 | -54 | 290 | 0.5 | -1.1 | -2.1 | 4 | J |
| 13 | 465 | 8.4 | 97 | J | 4.6 | -17 | 234 | -2.2 | -2.9 | -1.6 | 2 | J |
| 14 | 457 | 8.6 | 80 | J | 5.0 | -6 | 245 | -1.9 | -3.9 | -1.2 | 2 | J |
| 15 | 458 | 8.8 | 81 | J | 4.7 | -44 | 218 | -2.6 | -1.3 | -3.6 | 1 | J |
| 16 | 454 | 8.6 | 88 | J | 4.6 | -28 | 226 | -2.0 | -1.6 | -2.1 | 3 | J |
| 17 | 463 | 8.9 | 77 | J | 5.2 | -39 | 210 | -3.4 | -0.8 | -3.6 | 1 | J |
| 18 | 417 | 7.6 | 45 | J | 5.4 | 8 | 345 | 5.2 | -1.6 | 0.2 | 1 | J |
| 19 | 410 | 7.8 | 45 | J | 4.9 | 12 | 358 | 4.7 | -0.6 | 0.8 | 1 | J |
| 20 | 412 | 8.4 | 62 | J | 5.8 | 8 | 338 | 4.9 | -2.1 | -0.3 | 2 | J |
| 21 | 435 | 9.3 | 76 | J | 5.7 | -34 | 277 | 0.5 | -2.3 | -4.6 | 2 | J |
| 22 | | | | | | | | | | | | |
| 23 | 439 | 7.9 | 77 | J | 6.3 | -29 | 264 | -0.5 | -2.7 | -4.7 | 3 | J |
| 24 | | | | | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 431 | 1.8 | 61 | J | 5.4 | 1 | 324 | 4.4 | -3.0 | -1.1 | 0 | J |
| 5 | 427 | 2.3 | 54 | J | 5.4 | 2 | 328 | 4.6 | -2.8 | -0.8 | 0 | J |
| 6 | 414 | 2.7 | 54 | J | 5.5 | 4 | 339 | 5.0 | -2.0 | -0.2 | 1 | J |
| 7 | 414 | 3.0 | 47 | J | 5.7 | 7 | 314 | 3.8 | -4.0 | -0.2 | 1 | J |
| 8 | 415 | 3.2 | 50 | J | 5.5 | -9 | 290 | 1.7 | -4.3 | -1.6 | 2 | J |
| 9 | 403 | 3.4 | 57 | J | 5.6 | -2 | 315 | 3.9 | -3.8 | -0.8 | 1 | J |
| 10 | 396 | 3.6 | 69 | J | 5.7 | 5 | 329 | 4.9 | -3.0 | 0.1 | 1 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 5.4 | -4 | 315 | 3.7 | -3.6 | -0.8 | 1 | J |
| 13 | 392 | 3.5 | 42 | J | 5.4 | 4 | 301 | 2.6 | -4.3 | -0.2 | 2 | J |
| 14 | 402 | 3.5 | 30 | J | 5.5 | -1 | 289 | 1.8 | -5.0 | -0.9 | 1 | J |
| 15 | 379 | 4.1 | 33 | J | 5.5 | 20 | 344 | 4.9 | -1.8 | 1.5 | 1 | J |
| 16 | 377 | 4.3 | 37 | J | 4.5 | 7 | 315 | 2.2 | -2.2 | -0.2 | 3 | J |
| 17 | 381 | 4.2 | 34 | J | 5.6 | -8 | 299 | 2.6 | -4.2 | -2.2 | 2 | J |
| 18 | 386 | 4.3 | 41 | J | 5.4 | -9 | 291 | 1.9 | -4.2 | -2.6 | 1 | J |
| 19 | 389 | 4.5 | 37 | J | 5.1 | -19 | 293 | 1.8 | -3.2 | -3.2 | 2 | J |
| 20 | 378 | 4.4 | 37 | J | 5.0 | -14 | 301 | 2.4 | -3.1 | -2.9 | 1 | J |
| 21 | 380 | 4.6 | 34 | J | 5.0 | -7 | 299 | 2.4 | -3.4 | -2.6 | 1 | J |
| 22 | 380 | 4.8 | 31 | J | 5.0 | -8 | 290 | 1.7 | -3.7 | -2.9 | 1 | J |
| 23 | 378 | 5.1 | 34 | J | 5.0 | -3 | 290 | 1.7 | -3.8 | -2.5 | 1 | J |
| 24 | 373 | 4.9 | 24 | J | 5.2 | 37 | 287 | 1.2 | -5.0 | 0.7 | 0 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 523 | 12.7 | 222 | J | 10.6 | 82 | 264 | -0.1 | -5.6 | 7.6 | 5 | J |
| 2 | 511 | 11.5 | 241 | J | 9.2 | 69 | 15 | 2.1 | -2.0 | 5.3 | 7 | J |
| 3 | 514 | 10.8 | 293 | J | 8.3 | -38 | 85 | 0.5 | 7.4 | -1.8 | 3 | J |
| 4 | 517 | 8.7 | 247 | J | 9.8 | -52 | 111 | -2.1 | 7.7 | -4.9 | 3 | J |
| 5 | 524 | 7.3 | 202 | J | 9.9 | -50 | 114 | -2.5 | 7.5 | -5.1 | 4 | J |
| 6 | 528 | 9.0 | 181 | J | 8.7 | -37 | 106 | -1.8 | 7.5 | -3.1 | 3 | J |
| 7 | 537 | 10.3 | 133 | J | 8.9 | -14 | 102 | -1.8 | 8.7 | -0.2 | 1 | J |
| 8 | 546 | 8.5 | 110 | J | 8.3 | -12 | 112 | -3.0 | 7.5 | -0.3 | 2 | J |
| 9 | 651 | 12.6 | 274 | L | | | | | | | | |
| 10 | 710 | 7.4 | 424 | L | | | | | | | | |
| 11 | 687 | 6.9 | 727 | L | | | | | | | | |
| 12 | 672 | 4.4 | 745 | L | | | | | | | | |
| 13 | 711 | 4.5 | 1048 | L | | | | | | | | |
| 14 | 746 | 12.6 | 1012 | L | | | | | | | | |
| 15 | 772 | 9.5 | 684 | L | | | | | | | | |
| 16 | 799 | 5.8 | 565 | L | | | | | | | | |
| 17 | 812 | 4.6 | 433 | L | | | | | | | | |
| 18 | 822 | 4.0 | 320 | L | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 996 | 17.2 | 427 | L | | | | | | | | |
| 21 | 1004 | 12.3 | 707 | L | | | | | | | | |
| 22 | 976 | 8.7 | 692 | L | | | | | | | | |
| 23 | 948 | 4.7 | 1009 | L | | | | | | | | |
| 24 | 957 | 4.1 | 1870 | L | | | | | | | | |

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05/02/78 – 05/09/78

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HR     VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000   SC MAGN LAT LON                       SC                1000   SC MAGN LAT LON                       SC
                          MAY  2, 1978                   122                           MAY  3, 1978                    123

 1     940  3.72021  L
 2
 3
 4
 5
 6
 7
 8     880  2.6 925  L
 9     876  2.3 920  L
10     847  2.1 803  L
11
12     824  1.7 599  L
13     833  1.6 454  L
14     825  1.5 374  L
15     811  2.6 189  L
16     790  2.4 157  L
17     788  1.9 126  L
18     771  2.1 147  L
19     755  1.6 145  L
20     744  1.3 134  L
21     745  2.7 101  L
22     740  1.4 116  L                                          916  1.3 122  L
23     727  3.1  54  L
24

                          MAY  4, 1978                   124                           MAY  5, 1978                    125

 1     811  1.6  23  L
 2     794  1.0  29  L                                          561  1.1  50  L
 3     778  0.7  23  L                                          557  1.1  51  L
 4                                                              546  1.4  54  L
 5                                                              562  1.4  55  L
 6
 7
 8
 9     721  2.3  81  L
10
11
12     676  0.7  58  L
13     671  0.7  67  L
14     664  0.7  45  L                                          527  1.5  61  L
15                                                              533  1.1 115  L
16                                                              507  1.2  86  L
17                                                              519  1.2  70  L
18                                                              517  1.4  62  L
19                                                              521  1.3 125  L
20                                                              508  1.5 168  L
21     588  0.8  46  L                                          577  1.2 100  L
22                                                              506  1.4 152  L
23                                                              486  1.6 120  L
24                                                              473  1.5  99  L

                          MAY  6, 1978                   126                           MAY  7, 1978                    127

 1     461  1.4  83  L                                          443  1.7  94  L
 2     464  1.5  85  L                                          439  1.9  95  L
 3     471  1.6  98  L                                          433  1.9  88  L
 4     465  2.3 146  L                                          432  2.0 116  L
 5     460  2.4 109  L                                          425  2.6 348  L
 6     469  2.5  96  L                                          440  2.5 301  L
 7     473  3.1  96  L                                          458  2.4 200  L
 8     477  3.0  94  L                                          439  2.4 150  L
 9                                                              433  2.7 141  L
10     501  3.1 123  L                                          457  3.8 177  L
11     507  3.5 108  L                                          428  3.3 145  L
12                                                              422  2.7 124  L
13
14     498  2.0 144  L
15     491  1.9 126  L
16     484  1.9 116  L
17     480  1.9 117  L
18     491  1.9 135  L
19     474  1.7 119  L
20     492  1.7 139  L
21     500  1.9 137  L
22     482  1.9 134  L
23     476  1.8 135  L
24     455  1.8 100  L

                          MAY  8, 1978                   128                           MAY  9, 1978                    129

 1                                                              405 29.0  57  J    8.6  11 120  -4.0   5.5   4.4  3  J
 2                                                              445 15.7 104  J   16.9   8 113  -5.8  11.7   7.6 10  J
 3                                                              644 12.0 703  J   16.7 -13 320  11.9  -7.9  -7.1  4  J
 4                                                              649  8.0 455  J   13.4  -7 324  10.4  -6.6  -4.0  2  J
 5     417  3.4  46  J    8.4  22 150  -6.3   2.7   3.9  2  J   597 12.3 864  J   13.3  68 229  -1.7  -3.8   5.8 11  J
 6     432  4.4 103  J    9.1  30 150  -5.8   2.3   4.5  4  J   709 16.41167  J   19.2  60 164  -6.0  -0.8  10.8 15  J
 7     473  4.4  99  J    8.6  24  96  -0.7   5.6   3.9  5  J   673 16.3 911  J   17.5  20 208 -10.1  -6.1   3.1 13  J
 8     450  4.5 165  J    8.0  28 115  -2.5   4.8   3.9  4  J
 9     431  3.9 167  J    8.6  40 134  -4.1   3.7   5.4  3  J
10     413  4.0  80  J    8.5  15 144  -5.6   3.9   2.2  4  J   720  7.5  85  J    8.5 -72   5   2.6   0.9  -7.8  2  J
11     446  4.7  78  J    8.1 -24 114  -2.9   6.8  -2.7  2  J   719  7.4 103  J    8.7 -74   5   2.3   0.8  -8.0  2  J
12     458  6.0  54  J    7.3 -47  94  -0.3   5.1  -4.7  2  J   707  5.9 112  J    8.5 -62  30   3.3   2.4  -7.1  2  J
13     448  6.5  39  J    6.3 -37  91  -0.1   5.3  -3.2  1  J   704  7.1 145  J    8.8 -63  44   2.7   3.3  -7.2  3  J
14     450 11.0  45  J    5.5 -25  48   3.0   3.5  -1.6  3  J   692 26.0  68  J    7.7 -71 171  -1.8   0.9  -5.1  6  J
15     443 14.7  43  J    5.8 -17  56   3.0   4.7  -0.9  1  J   700 21.1  74  J    8.9 -20 197  -7.8  -1.9  -3.3  2  J
16     426 19.2  43  J    3.8   5  35   2.7   1.8   0.7  2  J   686 17.5  49  J    8.4 -38  23   5.9   3.5  -4.3  2  J
17     421 23.7  34  J    3.7  -2 320   2.3  -1.8  -0.6  2  J   674  8.6  43  J    9.3 -23  19   8.0   3.6  -2.7  1  J
18     427 22.0  34  J    8.0 -13 118  -2.8   5.5   0.4  6  J
19     412 26.2  27  J    8.4  17 122  -4.0   5.0   4.5  4  J
20     397 31.5  29  J    6.0   4 121  -2.7   4.0   2.2  3  J   625 10.3  59  J    8.4  64 221  -2.7  -5.5   5.6  1  J
21                                                              665  6.8  55  J    8.7  33 191  -7.0  -3.3   3.5  2  J
22                                                              656  8.1  69  J    9.2  40 189  -6.7  -3.6   4.5  3  J
23     409 45.3  39  J    4.9  15 156  -4.1   1.0   1.9  2  J   625  6.0  66  J    9.4  36 184  -7.5  -3.0   4.6  1  J
24     405 52.2  36  J    5.8  29 186  -4.6  -1.6   2.1  2  J
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## 05/10/78 – 05/17/78

### MAY 10, 1978

130

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 610 | 5.2 | 43 | J | 8.9 | 34 | 178 | -7.2 | -1.9 | 4.5 | 1 | J |
| 2 | 606 | 5.6 | 39 | J | 9.2 | 30 | 172 | -7.8 | -0.9 | 4.6 | 1 | J |
| 3 | 593 | 6.0 | 41 | J | 8.8 | 29 | 167 | -7.4 | 0.0 | 4.6 | 1 | J |
| 4 | 595 | 6.7 | 42 | J | 8.8 | 37 | 150 | -5.9 | 1.5 | 5.9 | 2 | J |
| 5 | 575 | 6.8 | 58 | J | 8.8 | 29 | 153 | -6.7 | 2.1 | 4.9 | 1 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | 7.5 | 7 | 161 | -6.9 | 2.3 | 1.1 | 1 | J |
| 10 | | | | | 7.1 | 8 | 161 | -6.6 | 2.2 | 1.1 | 1 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | 7.4 | 1 | 169 | -7.2 | 1.4 | 0.2 | 1 | J |
| 14 | | | | | 8.1 | -1 | 180 | -7.1 | 0.0 | -0.1 | 4 | J |
| 15 | 494 | 4.1 | 29 | J | 7.4 | -2 | 166 | -7.1 | 1.8 | 0.0 | 1 | J |
| 16 | | | | | 5.7 | -6 | 162 | -5.4 | 1.8 | -0.2 | 0 | J |
| 17 | 493 | 0.7 | 14 | L | 5.7 | -4 | 163 | -5.4 | 1.7 | 0.1 | 0 | J |
| 18 | 485 | 3.5 | 4 | L | 5.6 | -4 | 168 | -4.7 | 1.1 | 0.0 | 3 | J |
| 19 | 482 | 2.1 | 7 | L | 5.8 | -1 | 155 | -5.2 | 2.3 | 0.8 | 1 | J |
| 20 | 490 | 3.0 | 24 | J | 5.6 | 6 | 157 | -5.1 | 1.7 | 1.4 | 0 | J |
| 21 | 526 | 9.0 | 83 | J | 5.7 | 43 | 142 | -0.5 | 0.1 | 0.6 | 6 | J |
| 22 | 521 | 13.3 | 54 | J | 7.6 | 40 | 305 | 3.1 | -6.0 | 2.0 | 3 | J |
| 23 | 564 | 10.8 | 138 | J | 8.9 | 11 | 271 | 0.1 | -6.1 | -1.8 | 7 | J |
| 24 | 625 | 7.9 | 301 | J | 6.7 | -28 | 154 | -0.8 | 0.6 | -0.2 | 7 | J |

### MAY 11, 1978

131

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 638 | 6.4 | 291 | J | 7.9 | -19 | 159 | -6.5 | 3.3 | -1.1 | 3 | J |
| 2 | 642 | 4.6 | 176 | J | 10.2 | -17 | 166 | -9.3 | 3.3 | -1.7 | 2 | J |
| 3 | 622 | 4.2 | 187 | J | 10.2 | -31 | 169 | -8.4 | 3.4 | -4.2 | 2 | J |
| 4 | 574 | 7.3 | 219 | J | 7.9 | -65 | 208 | -2.9 | 0.8 | -7.1 | 2 | J |
| 5 | 559 | 8.0 | 219 | J | 7.8 | -50 | 176 | -4.9 | 1.9 | -5.5 | 2 | J |
| 6 | 542 | 8.5 | 235 | J | 8.3 | -37 | 218 | -5.1 | -2.8 | -5.6 | 2 | J |
| 7 | 517 | 10.1 | 223 | J | 5.9 | -34 | 264 | -0.5 | -3.7 | -3.6 | 3 | J |
| 8 | 517 | 10.2 | 222 | J | 6.0 | -33 | 295 | 1.7 | -3.3 | -3.1 | 3 | J |
| 9 | 524 | 9.6 | 200 | J | 7.7 | -5 | 324 | 6.0 | -4.3 | -1.1 | 2 | J |
| 10 | 530 | 9.8 | 285 | J | 7.3 | 3 | 346 | 6.8 | -1.7 | 0.2 | 2 | J |
| 11 | 498 | 8.8 | 179 | J | 5.9 | -5 | 300 | 2.9 | -5.0 | -0.8 | 1 | J |
| 12 | 517 | 6.3 | 113 | J | 5.4 | 2 | 311 | 3.5 | -4.1 | -0.1 | 1 | J |
| 13 | 510 | 6.8 | 97 | J | 4.6 | -17 | 292 | 1.5 | -3.5 | -1.5 | 2 | J |
| 14 | 514 | 6.9 | 110 | J | 4.1 | -30 | 301 | 1.4 | -2.2 | -1.8 | 3 | J |
| 15 | 508 | 5.7 | 69 | J | 3.8 | 8 | 344 | 3.4 | -1.0 | 0.3 | 1 | J |
| 16 | 501 | 6.1 | 74 | J | 4.2 | -1 | 343 | 3.9 | -1.2 | -0.3 | 1 | J |
| 17 | 522 | 6.1 | 102 | J | 3.9 | -86 | 282 | 0.0 | 0.6 | -3.0 | 2 | J |
| 18 | 510 | 5.7 | 62 | J | 4.2 | -19 | 280 | 0.6 | -2.7 | -2.1 | 2 | J |
| 19 | 495 | 5.7 | 75 | J | 4.2 | 5 | 311 | 2.5 | -2.9 | -0.8 | 2 | J |
| 20 | 481 | 5.7 | 118 | J | 4.3 | 10 | 336 | 3.0 | -1.4 | -0.0 | 3 | J |
| 21 | 463 | 5.1 | 73 | J | 3.9 | -1 | 358 | 3.6 | -0.1 | -0.1 | 1 | J |
| 22 | 489 | 5.6 | 71 | J | 4.2 | -8 | 290 | 1.0 | -2.4 | -1.7 | 3 | J |
| 23 | 487 | 5.1 | 64 | J | 4.2 | -29 | 295 | 1.3 | -1.7 | -2.9 | 2 | J |
| 24 | 476 | 5.1 | 70 | J | 4.2 | -20 | 315 | 2.5 | -1.6 | -2.2 | 2 | J |

### MAY 12, 1978

132

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 481 | 5.0 | 52 | J | 4.4 | -46 | 303 | 1.4 | -0.8 | -3.4 | 2 | J |
| 2 | 458 | 5.1 | 44 | J | 4.3 | -9 | 331 | 3.4 | -1.5 | -1.3 | 2 | J |
| 3 | 463 | 5.1 | 49 | J | 4.4 | -39 | 329 | 2.6 | -0.6 | -2.9 | 2 | J |
| 4 | 416 | 0.0 | 0 | H | | | | | | | | |
| 5 | 402 | 0.0 | 0 | H | | | | | | | | |
| 6 | 398 | 0.0 | 0 | H | | | | | | | | |
| 7 | 420 | 0.0 | 0 | H | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 428 | 5.5 | 55 | J | 4.5 | 15 | 333 | 3.6 | -1.9 | 1.0 | 2 | J |
| 11 | 416 | 5.3 | 37 | J | 4.7 | -3 | 334 | 4.0 | -2.0 | -0.3 | 1 | J |
| 12 | 427 | 4.9 | 66 | J | 4.5 | -35 | 331 | 2.6 | -1.3 | -2.1 | 3 | J |
| 13 | 418 | 5.0 | 54 | J | 5.2 | -37 | 331 | 3.4 | -1.7 | -3.1 | 2 | J |
| 14 | 414 | 5.5 | 40 | J | 6.1 | -23 | 327 | 4.6 | -2.7 | -2.6 | 2 | J |
| 15 | 412 | 5.4 | 37 | J | 6.2 | 5 | 311 | 3.9 | -4.5 | -0.1 | 2 | J |
| 16 | 415 | 5.0 | 49 | J | 5.6 | -38 | 311 | 2.5 | -2.2 | -3.5 | 3 | J |
| 17 | 413 | 6.1 | 53 | J | 5.5 | -20 | 309 | 3.1 | -3.2 | -2.7 | 2 | J |
| 18 | 417 | 6.5 | 42 | J | 5.4 | -26 | 295 | 2.0 | -3.3 | -3.5 | 1 | J |
| 19 | 424 | 7.2 | 45 | J | 5.0 | -35 | 285 | 1.0 | -2.5 | -3.9 | 2 | J |
| 20 | 425 | 8.1 | 86 | J | 4.9 | -32 | 278 | 0.5 | -2.4 | -3.5 | 2 | J |
| 21 | 415 | 8.1 | 40 | J | 5.0 | -14 | 288 | 1.3 | -3.1 | -2.6 | 3 | J |
| 22 | 409 | 9.6 | 44 | J | 5.6 | 36 | 294 | 1.1 | -3.1 | 0.6 | 5 | J |
| 23 | 409 | 9.4 | 40 | J | 5.5 | -63 | 318 | 1.8 | 0.7 | -4.9 | 1 | J |
| 24 | 406 | 8.8 | 43 | J | 6.4 | -48 | 306 | 2.4 | -1.0 | -5.6 | 2 | J |

### MAY 13, 1978

133

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 9.0 | 33 | J | 7.2 | -19 | 297 | 3.0 | -4.4 | -4.6 | 2 | J |
| 2 | 399 | 9.2 | 38 | J | 7.5 | 12 | 298 | 3.1 | -6.0 | -1.0 | 3 | J |
| 3 | 402 | 6.9 | 38 | J | 7.0 | 32 | 287 | 1.6 | -6.0 | 1.3 | 3 | J |
| 4 | 402 | 6.6 | 38 | J | 6.9 | 31 | 278 | 0.8 | -6.2 | 1.4 | 3 | J |
| 5 | 411 | 4.7 | 69 | J | 6.4 | 23 | 284 | 1.4 | -6.0 | 0.9 | 1 | J |
| 6 | 421 | 4.4 | 93 | J | 5.7 | 13 | 290 | 1.9 | -5.3 | 0.2 | 1 | J |
| 7 | 416 | 3.5 | 66 | J | 5.7 | 16 | 295 | 2.3 | -5.1 | 0.7 | 1 | J |
| 8 | 421 | 4.1 | 84 | J | 5.9 | 17 | 294 | 2.2 | -5.1 | 1.1 | 1 | J |
| 9 | 413 | 3.9 | 51 | J | 6.3 | -3 | 302 | 3.2 | -5.1 | -0.8 | 1 | J |
| 10 | 418 | 4.0 | 57 | J | 6.3 | 11 | 298 | 2.9 | -5.4 | 0.9 | 1 | J |
| 11 | 418 | 3.7 | 51 | J | 6.3 | 0 | 298 | 2.9 | -5.5 | -0.3 | 1 | J |
| 12 | 408 | 0.0 | 0 | H | | | | | | | | |
| 13 | 409 | 0.0 | 0 | H | | | | | | | | |
| 14 | 420 | 0.0 | 0 | H | 5.2 | 5 | 324 | 4.2 | -3.1 | 0.2 | 0 | J |
| 15 | 429 | 8.3 | 46 | J | 5.4 | 7 | 327 | 4.5 | -3.0 | 0.2 | 1 | J |
| 16 | 423 | 8.7 | 31 | J | 5.5 | 15 | 334 | 4.7 | -2.5 | 0.9 | 1 | J |
| 17 | 419 | 9.1 | 30 | J | 5.2 | 24 | 341 | 4.4 | -2.0 | 1.6 | 1 | J |
| 18 | 413 | 10.8 | 34 | J | 4.9 | 38 | 333 | 3.4 | -2.5 | 2.3 | 1 | J |
| 19 | 401 | 6.9 | 20 | J | 5.3 | 16 | 323 | 4.1 | -3.4 | 0.3 | 0 | J |
| 20 | 385 | 6.4 | 23 | J | 5.3 | 13 | 314 | 3.5 | -3.8 | -0.4 | 1 | J |
| 21 | 386 | 5.8 | 43 | J | 5.7 | 20 | 321 | 4.2 | -3.9 | 0.3 | 1 | J |
| 22 | 376 | 8.2 | 28 | J | 4.8 | -5 | 321 | 3.4 | -2.3 | -1.6 | 2 | J |
| 23 | 369 | 12.1 | 24 | J | 2.7 | -10 | 316 | 1.7 | -1.3 | -1.1 | 2 | J |
| 24 | 365 | 10.2 | 25 | J | 3.7 | -62 | 324 | 1.0 | 0.4 | -2.4 | 3 | J |

### MAY 14, 1978

134

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 354 | 11.8 | 14 | J | 4.9 | -8 | 259 | -0.9 | -3.8 | -2.5 | 1 | J |
| 2 | 355 | 11.4 | 14 | J | 5.5 | 6 | 260 | -0.9 | -5.2 | -1.6 | 1 | J |
| 3 | 352 | 12.2 | 15 | J | 5.5 | 6 | 263 | -0.7 | -5.2 | -1.3 | 1 | J |
| 4 | 350 | 11.2 | 16 | J | 5.9 | -8 | 277 | 0.7 | -5.3 | -2.6 | 1 | J |
| 5 | 352 | 9.5 | 14 | J | 6.3 | -10 | 276 | 0.6 | -5.7 | -2.6 | 1 | J |
| 6 | 344 | 13.0 | 20 | J | 6.5 | 1 | 265 | -0.6 | -6.4 | -1.2 | 1 | J |
| 7 | 343 | 13.8 | 20 | J | 6.8 | 9 | 270 | 0.0 | -6.6 | 0.0 | 2 | J |
| 8 | 341 | 13.9 | 17 | J | 7.0 | 22 | 270 | 0.0 | -6.6 | 1.8 | 1 | J |
| 9 | 337 | 12.2 | 15 | J | 7.6 | 7 | 297 | 2.7 | -5.3 | 0.3 | 5 | J |
| 10 | 337 | 12.7 | 12 | J | 7.7 | -5 | 312 | 5.1 | -5.6 | -1.0 | 1 | J |
| 11 | 337 | 13.5 | 13 | J | 7.8 | -3 | 301 | 4.0 | -6.7 | -0.7 | 1 | J |
| 12 | 338 | 14.7 | 13 | J | 7.9 | 2 | 297 | 3.5 | -7.0 | -0.0 | 1 | J |
| 13 | 333 | 0.0 | 0 | H | | | | | | | | |
| 14 | 335 | 0.0 | 0 | H | | | | | | | | |
| 15 | 339 | 0.0 | 0 | H | | | | | | | | |
| 16 | 345 | 0.0 | 0 | H | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 342 | 0.0 | 0 | H | | | | | | | | |
| 19 | 345 | 0.0 | 0 | H | | | | | | | | |
| 20 | 352 | 0.0 | 0 | H | | | | | | | | |
| 21 | 337 | 22.8 | 26 | L | | | | | | | | |
| 22 | 329 | 22.0 | 27 | L | | | | | | | | |
| 23 | 337 | 26.5 | 37 | L | | | | | | | | |
| 24 | 334 | 21.1 | 42 | L | | | | | | | | |

### MAY 15, 1978

135

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 340 | 23.7 | 36 | L | | | | | | | | |
| 2 | 326 | 22.3 | 34 | L | | | | | | | | |
| 3 | 319 | 24.0 | 30 | L | | | | | | | | |
| 4 | 325 | 28.7 | 25 | J | 4.6 | 57 | 154 | -2.2 | -0.1 | 3.8 | 1 | J |
| 5 | 320 | 27.5 | 25 | J | 5.9 | 65 | 64 | 1.0 | 0.8 | 5.3 | 2 | J |
| 6 | 314 | 25.4 | 23 | J | 5.5 | 49 | 49 | 2.1 | 1.6 | 4.1 | 2 | J |
| 7 | 317 | 23.1 | 23 | J | 6.0 | 52 | 51 | 2.0 | 1.8 | 4.4 | 3 | J |
| 8 | 311 | 31.2 | 26 | J | 5.1 | 47 | 81 | 0.5 | 2.7 | 3.6 | 2 | J |
| 9 | | | | | | | | | | | | |
| 10 | 323 | 39.0 | 28 | J | 5.6 | 19 | 78 | 1.0 | 4.5 | 1.9 | 2 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 348 | 0.0 | 0 | H | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 371 | 0.0 | 0 | H | | | | | | | | |
| 17 | 378 | 0.0 | 0 | H | | | | | | | | |
| 18 | 373 | 0.0 | 0 | H | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

### MAY 16, 1978

136

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 415 | 0.0 | 0 | H | | | | | | | | |
| 3 | 409 | 0.0 | 0 | H | | | | | | | | |
| 4 | 412 | 0.0 | 0 | H | | | | | | | | |
| 5 | 409 | 0.0 | 0 | H | | | | | | | | |
| 6 | 419 | 0.0 | 0 | H | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 410 | 0.0 | 0 | H | | | | | | | | |
| 10 | 388 | 0.0 | 0 | H | | | | | | | | |
| 11 | 400 | 0.0 | 0 | H | | | | | | | | |
| 12 | 391 | 0.0 | 0 | H | | | | | | | | |
| 13 | 412 | 0.0 | 0 | H | | | | | | | | |
| 14 | 417 | 0.0 | 0 | H | | | | | | | | |
| 15 | 390 | 0.0 | 0 | H | | | | | | | | |
| 16 | 438 | 0.0 | 0 | H | | | | | | | | |
| 17 | 382 | 0.0 | 0 | H | | | | | | | | |
| 18 | 373 | 0.0 | 0 | H | | | | | | | | |
| 19 | 381 | 0.0 | 0 | H | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 397 | 0.0 | 0 | H | | | | | | | | |
| 22 | 382 | 0.0 | 0 | H | | | | | | | | |
| 23 | 399 | 0.0 | 0 | H | | | | | | | | |
| 24 | 377 | 0.0 | 0 | H | | | | | | | | |

### MAY 17, 1978

137

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 0.0 | 0 | H | | | | | | | | |
| 2 | 395 | 0.0 | 0 | H | | | | | | | | |
| 3 | 384 | 0.0 | 0 | H | | | | | | | | |
| 4 | 363 | 0.0 | 0 | H | | | | | | | | |
| 5 | 397 | 0.0 | 0 | H | | | | | | | | |
| 6 | 377 | 0.0 | 0 | H | | | | | | | | |
| 7 | 376 | 0.0 | 0 | H | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 359 | 0.0 | 0 | H | | | | | | | | |
| 14 | 358 | 0.0 | 0 | H | | | | | | | | |
| 15 | 357 | 0.0 | 0 | H | | | | | | | | |
| 16 | 368 | 0.0 | 0 | H | | | | | | | | |
| 17 | 363 | 0.0 | 0 | H | | | | | | | | |
| 18 | 382 | 0.0 | 0 | H | | | | | | | | |
| 19 | 378 | 0.0 | 0 | H | | | | | | | | |
| 20 | 400 | 0.0 | 0 | H | | | | | | | | |
| 21 | 387 | 0.0 | 0 | H | | | | | | | | |
| 22 | 374 | 0.0 | 0 | H | | | | | | | | |
| 23 | 372 | 0.0 | 0 | H | | | | | | | | |
| 24 | 358 | 0.0 | 0 | H | | | | | | | | |

ORIGINAL PAGE IS
OF POOR QUALITY

ORIGINAL PAGE IS
OF POOR QUALITY

05/18/78 – 05/25/78

```
HR      VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF      VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                   1000  SC  MAGN LAT LON                   SC                  1000  SC  MAGN LAT LON                   SC

                                    MAY  18, 1978                 138                                   MAY  19, 1978                 139

 1      365  0.0   0  H                                             302  0.0   0  H
 2      363  0.0   0  H                                             331  0.0   0  H
 3      372  0.0   0  H                                             324  0.0   0  H
 4      372  0.0   0  H                                             333  0.0   0  H
 5                                                                  342  0.0   0  H
 6      338  0.0   0  H                                             339  0.0   0  H
 7
 8
 9      331  0.0   0  H
10      330  0.0   0  H
11      329  0.0   0  H
12
13
14
15
16
17
18
19
20
21
22      303  0.0   0  H
23      302  0.0   0  H
24      304  0.0   0  H

                                    MAY  20, 1978                 140                                   MAY  21, 1978                 141

 1                                                                  319 17.2  56  J     6.3  28 109  -1.4   2.8   3.6  4  J
 2                                                                  312 17.1  60  J     6.9  38 184  -5.0  -1.7   3.5  3  J
 3                                                                  328 19.7  33  J     9.1  20 219  -6.4  -5.9   1.2  3  J
 4                                                                  338 26.3  43  J    13.0   0 227  -8.7  -9.0  -2.5  3  J
 5                                                                  350 22.6  65  J    12.4  26 140  -3.6   2.4   2.9 12  J
 6                                                                  364 23.8  51  J    13.0  41 115  -3.6   6.3   8.5  7  J
 7      408 12.3 155  L                                             376 28.6  70  J     9.6  56 141  -3.0   1.8   6.0  7  J
 8                                                                  369 17.1  89  J    12.0  47 102  -1.6   7.0   8.9  4  J
 9                                                                  359 14.8  94  J    10.9  30 101  -1.7   8.5   5.4  4  J
10      396  7.6 121  L                                             331 16.7  78  J     9.0  43  79   1.0   5.3   5.2  5  J
11                                                                  369 16.1  93  J     6.0  34 109  -1.1   3.2   2.3  5  J
12                                                                  400 16.9  85  J     8.2  38  85   0.5   5.3   4.2  5  J
13
14                                                                  406 24.8  68  J     9.5  11  58   4.8   7.6   2.1  2  J
15                                                                  402 25.9  78  J    11.1  18  51   4.9   5.8   3.1  7  J
16                                                                  339 25.0  55  J    10.7  37  94  -0.5   6.9   7.0  4  J
17      336 17.5  30  J                                                                12.9  33 115  -4.2   7.5   8.2  5  J
18      338 18.4  27  J                                             391 21.3  42  J    13.4  30  93  -0.5   8.0   8.1  7  J
19      340 15.6  27  J     8.4 -47 264  -0.6  -3.3  -7.5  2  J      431 15.1  43  J    13.6 -45  59   3.8   8.2  -4.9  9  J
20      333 15.8  26  J     7.8 -48 243  -1.9  -1.8  -5.8  4  J      408 14.0  55  J    14.5 -62 301   3.3  -0.8 -13.1  5  J
21      328 14.3  45  J     7.3 -12 109  -2.2   6.4   1.2  2  J      406 14.6  49  J    14.4 -61 280   1.2  -1.4 -13.7  4  J
22      328 16.1  49  J     6.7   3  96  -0.6   5.4   2.8  3  J      398 14.3  45  J    13.9  -7 276   1.4 -11.7  -7.0  2  J
23      342 17.4  52  J     7.1  10  50   4.2   4.1   3.2  2  J      379 15.1  44  J    14.1  -4 286   3.8 -11.8  -6.3  2  J
24      332 17.4  50  J     6.7  20  72   1.8   4.3   4.3  2  J      391 13.2  69  J    13.6 -16 299   6.0  -8.5  -7.6  4  J

                                    MAY  22, 1978                 142                                   MAY  23, 1978                 143

 1      423 12.9 238  J     9.3   1 337   7.2  -2.9  -1.0  5  J      391  6.0  20  J     9.0 -28 317   5.7  -3.4  -5.8  2  J
 2      400 10.1 146  J     8.7  31 329   4.6  -3.7   2.1  6  J      390  6.5  20  J     9.4 -22 315   6.0  -4.5  -5.3  2  J
 3      372  7.6  44  J    10.2  -2 295   4.2  -8.4  -3.1  2  J      381  6.6  23  J     9.8 -11 321   7.4  -5.2  -3.6  1  J
 4      348  6.6  35  J    10.0   4 297   4.5  -8.7  -1.6  2  J      381  6.1  24  J    10.0 -13 316   6.9  -5.9  -3.9  2  J
 5      353  6.2  34  J     9.8   7 295   4.0  -8.7  -0.7  2  J      377  5.6  22  J    10.2 -15 319   7.2  -5.6  -3.8  2  J
 6      370  6.7  23  J    10.2   3 299   4.7  -8.5  -0.9  2  J      380  5.5  24  J    10.5 -20 317   7.1  -6.0  -4.5  2  J
 7      366  5.3  28  J    10.1  10 292   3.6  -9.1   0.7  2  J      368  5.6  18  J    10.8  -3 320   8.3  -6.8  -1.3  1  J
 8                                                                  371  5.6  20  J    11.1  -7 317   8.0  -7.4  -1.8  2  J
 9      441 13.8 154  J     5.2  -4 344   4.5  -1.3  -0.4  2  J      358  4.9  15  J    11.1  -2 328   9.3  -5.8  -0.5  1  J
10      447 16.4  59  J     5.4   5 106  -1.1   3.8   0.4  4  J      357  4.8  15  J    11.6  -4 329   9.8  -5.9  -0.8  1  J
11      445 15.2  75  J     3.7  10  91  -0.0   2.9   0.5  3  J      367  5.5  17  J    12.3  -9 321   9.4  -7.6  -1.8  1  J
12      432 10.9  57  J     6.7  -9 321   4.7  -3.8  -0.9  3  J      389  5.9  21  J    13.1 -11 309   7.8  -9.7  -2.3  3  J
13      435  9.1  27  J     8.2 -12 327   6.7  -4.3  -1.8  1  J      388  6.4  23  J    13.3   7 311   8.6  -9.9   1.6  2  J
14      430  8.0  27  J     8.7 -31 334   6.5  -3.0  -4.5  2  J      391  5.9  24  J    13.1  15 313   8.5  -9.2   3.0  2  J
15                                                                  395  6.3  31  J    12.9  19 318   9.0  -8.4   3.5  2  J
16                                                                  405  7.6  27  J    13.0  15 310   7.6  -9.4   2.0  4  J
17                                                                  437 12.3  73  J    11.0 -22 320   4.8  -3.5  -3.3  9  J
18      411  6.3  26  J     8.8 -39 320   5.2  -2.8  -6.4  1  J      448 15.3 144  J    11.1  32 316   6.3  -7.2   3.8  4  J
19      414  6.4  27  J     8.8 -34 318   5.2  -3.0  -6.0  3  J      436 18.9 148  J    11.7  19 311   6.6  -8.3   1.0  5  J
20      404  6.3  18  J     8.6 -26 319   5.8  -3.4  -5.3  1  J      432 20.5 126  J    12.4  28 349   7.6  -2.8   3.4  9  J
21      400  5.8  18  J     8.9 -17 320   6.4  -4.0  -4.4  1  J      467 22.2 153  J    13.3  -9 279   1.6  -8.8  -5.3  8  J
22      389  5.1  17  J     8.8 -20 330   7.0  -2.5  -4.3  2  J      476 23.6 192  J    14.1  48 267  -0.5 -12.2   5.6  5  J
23      382  7.1  23  J     9.0 -29 350   5.1   0.3  -3.0  7  J      515 10.4 378  J    14.9  25 282   2.4 -12.5   0.4  8  J
24      380  6.0  24  J     9.1 -12 333   7.8  -2.9  -3.3  1  J      526 10.2 381  J    15.3  10 291   4.8 -12.3  -2.7  7  J

                                    MAY  24, 1978                 144                                   MAY  25, 1978                 145

 1      519 12.0 406  J    12.7   6 299   4.6  -8.0  -2.1  8  J      510  4.6  59  J     5.0  10 346   4.2  -1.3   0.3  2  J
 2                         13.2   4 277   1.5 -11.5  -3.2  4  J      520  4.5  77  J     4.8  26 351   3.2  -1.0   1.3  3  J
 3      496 10.6 156  J    11.4   2 355  11.2  -1.0   0.1  2  J      509  3.9  51  J     4.5 -15   6   2.9   0.5  -0.7  3  J
 4      532  9.6 246  J    11.7  27 319   6.6  -6.7   2.9  6  J      530  4.6  94  J     4.5 -30 304   1.8  -2.1  -2.4  2  J
 5      525  8.5 200  J    10.6  -5 322   7.1  -5.3  -1.9  5  J      543  4.9  99  J     4.9  -9 265  -0.4  -4.3  -1.6  2  J
 6      532  7.6 203  J    10.6   1 305   5.7  -8.0  -1.0  3  J      528  4.5  84  J     4.9   4 279   0.6  -3.8  -0.3  3  J
 7      530  7.9 205  J    10.4  -7 334   7.9  -3.7  -1.5  6  J      502  3.9  73  J     4.7  10 333   3.9  -2.1   0.6  1  J
 8      534  7.2 178  J     8.6 -15 331   5.0  -2.7  -1.7  6  J      512  0.0   0  H
 9      547  6.8 196  J     8.5 -38 302   2.8  -4.5  -4.3  5  J      507  0.0   0  H
10      540  0.0   0  H     8.4   4 320   6.3  -5.3   0.6  2  J      521  0.0   0  H
11      557  6.3 178  J     8.1  36 294   2.0  -4.4   3.6  5  J
12      575  6.0 169  J     7.7 -87  16   0.3  -0.0  -6.4  4  J      502  0.0   0  H
13      561  0.0   0  H                                             500  0.0   0  H
14      575  5.1 170  J     5.8 -32 296   1.4  -2.9  -2.2  4  J      497  4.6  65  J     4.0 -10 350   3.9  -0.7  -0.7  1  J
15      555  4.3  85  J     6.0  28 333   4.2  -2.3   2.4  3  J      493  4.7  89  J     4.3   0 340   3.9  -1.4  -0.1  1  J
16      546  4.3  98  J     5.7 -10 327   4.5  -2.8  -1.3  2  J      484  4.9 115  J     4.8   0 337   4.3  -1.8  -0.2  1  J
17      547  4.2  91  J     5.7 -23 354   4.0  -0.1  -1.8  4  J      477  4.8 127  J     4.8   3 340   4.4  -1.6  -0.0  1  J
18      542  4.3 106  J     5.8  20 318   3.7  -3.7   0.9  2  J      494  0.0   0  H
19      536  4.2 111  J     5.8  27 341   4.6  -2.3   1.9  2  J      460  4.7  52  J     4.7  18 348   4.2  -1.3   1.1  1  J
20      534  4.2 109  J     5.5  15 329   4.1  -2.7   0.4  2  J      475  5.0  60  J     4.4   4 298   1.8  -3.3  -0.9  2  J
21      544  4.2  86  J     5.4  28 314   2.9  -3.7   1.0  2  J      474  5.5  69  J     4.3 -33 331   2.1  -0.5  -1.9  3  J
22      536  4.2 102  J     5.4  30 314   2.9  -3.8   1.1  2  J      469  5.4  68  J     3.8 -64 349   1.4   0.9  -2.8  2  J
23      523  4.4  79  J     5.3  -4 313   3.3  -3.1  -1.7  2  J      483  5.7  65  J     3.9 -71 225  -0.8   0.5  -3.2  2  J
24      534  4.6  87  J     5.2 -30 302   2.2  -2.3  -3.6  2  J      474  5.5  54  J     3.9 -65  89   0.0   2.3  -2.2  2  J
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05/26/78 – 06/02/78

MAY 26, 1978 146

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 464 | 5.5 | 60 | J | 3.8 | -43 | 335 | 1.5 | -0.1 | -1.6 | 3 | J |
| 2 | 462 | 5.6 | 53 | J | 4.3 | -15 | 296 | 1.6 | -2.8 | -2.0 | 2 | J |
| 3 | 453 | 5.5 | 52 | J | 4.4 | 7 | 301 | 2.1 | -3.5 | -0.5 | 2 | J |
| 4 | 455 | 5.5 | 54 | J | 4.2 | 3 | 301 | 1.7 | -2.9 | -0.5 | 2 | J |
| 5 | 455 | 5.5 | 50 | J | 4.2 | 2 | 302 | 1.9 | -3.0 | -0.4 | 2 | J |
| 6 | 450 | 5.2 | 56 | J | 4.1 | 10 | 305 | 2.1 | -3.1 | 0.2 | 1 | J |
| 7 | 446 | 5.2 | 62 | J | 4.1 | 22 | 316 | 2.6 | -2.6 | 1.2 | 1 | J |
| 8 | 441 | 6.0 | 63 | L | 4.2 | 24 | 332 | 3.4 | -1.9 | 1.6 | 0 | J |
| 9 | 434 | 5.9 | 74 | L | 3.5 | -81 | 10 | 0.5 | 0.1 | -3.5 | 1 | J |
| 10 | 453 | 0.0 | 0 | H | 3.2 | -75 | 234 | -0.5 | -0.7 | -3.1 | 0 | J |
| 11 | 443 | 4.6 | 54 | L | | | | | | | | |
| 12 | 454 | 5.6 | 41 | J | 4.8 | -46 | 203 | -2.9 | -1.4 | -3.3 | 1 | J |
| 13 | 452 | 6.0 | 41 | J | 4.7 | -40 | 216 | -2.6 | -1.9 | -2.7 | 2 | J |
| 14 | 439 | 5.5 | 52 | J | 4.2 | -36 | 232 | -1.9 | -2.5 | -2.3 | 2 | J |
| 15 | 456 | 0.0 | 0 | H | | | | | | | | |
| 16 | 433 | 7.2 | 80 | J | 4.1 | -25 | 234 | -1.7 | -2.1 | -1.6 | 3 | J |
| 17 | 431 | 5.1 | 46 | J | 4.1 | -3 | 240 | -1.8 | -3.1 | -0.7 | 2 | J |
| 18 | 436 | 5.8 | 71 | J | 3.7 | 12 | 247 | -1.3 | -3.0 | -0.0 | 2 | J |
| 19 | 424 | 5.1 | 41 | J | 3.8 | 1 | 264 | -0.4 | -3.4 | -0.9 | 1 | J |
| 20 | 419 | 4.7 | 35 | J | 3.9 | 32 | 288 | 0.9 | -3.4 | 0.8 | 2 | J |
| 21 | 419 | 4.5 | 36 | J | 3.9 | 23 | 274 | 0.2 | -3.5 | 0.1 | 2 | J |
| 22 | 405 | 4.2 | 42 | J | 3.5 | 15 | 314 | 2.0 | -2.2 | -0.1 | 2 | J |
| 23 | 398 | 3.7 | 35 | J | 4.2 | 26 | 315 | 2.6 | -3.1 | 0.7 | 1 | J |
| 24 | 404 | 3.9 | 37 | J | 3.7 | 16 | 306 | 2.1 | -3.1 | -0.1 | 1 | J |

MAY 27, 1978 147

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 406 | 4.2 | 39 | J | 3.4 | 12 | 304 | 1.8 | -2.7 | -0.3 | 1 | J |
| 2 | 390 | 3.9 | 73 | J | 3.8 | 18 | 336 | 3.3 | -1.8 | 0.6 | 1 | J |
| 3 | 395 | 4.2 | 63 | J | 3.7 | 11 | 317 | 2.6 | -2.5 | -0.0 | 1 | J |
| 4 | 386 | 4.4 | 39 | J | 3.3 | -20 | 314 | 1.9 | -1.7 | -1.4 | 1 | J |
| 5 | 380 | 4.3 | 30 | J | 3.5 | 11 | 319 | 2.5 | -2.3 | 0.2 | 1 | J |
| 6 | 381 | 4.6 | 26 | J | 3.9 | -19 | 285 | 0.9 | -3.0 | -1.5 | 2 | J |
| 7 | 378 | 4.5 | 50 | L | | | | | | | | |
| 8 | 380 | 4.4 | 47 | L | | | | | | | | |
| 9 | 366 | 4.4 | 55 | L | | | | | | | | |
| 10 | 372 | 5.0 | 61 | L | | | | | | | | |
| 11 | 362 | 4.4 | 57 | L | | | | | | | | |
| 12 | 366 | 4.5 | 62 | L | | | | | | | | |
| 13 | 358 | 4.2 | 58 | L | | | | | | | | |
| 14 | 369 | 4.6 | 58 | L | | | | | | | | |
| 15 | 364 | 4.5 | 56 | L | | | | | | | | |
| 16 | 364 | 4.6 | 48 | L | | | | | | | | |
| 17 | 362 | 4.8 | 45 | L | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 349 | 6.2 | 29 | L | | | | | | | | |
| 22 | 346 | 7.5 | 31 | L | | | | | | | | |
| 23 | 351 | 7.6 | 33 | L | | | | | | | | |
| 24 | 349 | 8.0 | 35 | L | | | | | | | | |

MAY 28, 1978 148

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 350 | 9.3 | 29 | L | | | | | | | | |
| 3 | 347 | 10.8 | 29 | L | | | | | | | | |
| 4 | 346 | 11.4 | 28 | L | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 349 | 11.8 | 26 | L | | | | | | | | |
| 7 | 359 | 11.9 | 26 | L | | | | | | | | |
| 8 | 350 | 13.7 | 29 | L | | | | | | | | |
| 9 | 342 | 10.7 | 29 | L | | | | | | | | |
| 10 | 342 | 12.1 | 28 | L | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 340 | 9.2 | 14 | L | | | | | | | | |
| 14 | 340 | 9.7 | 15 | L | | | | | | | | |
| 15 | 339 | 8.6 | 18 | L | | | | | | | | |
| 16 | 336 | 10.1 | 25 | L | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 319 | 9.6 | 33 | L | | | | | | | | |
| 22 | 318 | 9.6 | 40 | L | | | | | | | | |
| 23 | 314 | 8.2 | 52 | L | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 29, 1978 149

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 303 | 6.4 | 51 | L | | | | | | | | |
| 3 | 310 | 7.6 | 55 | L | | | | | | | | |
| 4 | 307 | 6.7 | 63 | L | | | | | | | | |
| 5 | 299 | 6.7 | 68 | L | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 313 | 0.0 | 0 | H | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 308 | 15.2 | 16 | L | | | | | | | | |
| 13 | 312 | 16.5 | 18 | L | | | | | | | | |
| 14 | 318 | 21.9 | 17 | L | | | | | | | | |
| 15 | 317 | 21.5 | 21 | L | | | | | | | | |
| 16 | 315 | 21.6 | 20 | L | | | | | | | | |
| 17 | 317 | 24.6 | 23 | L | | | | | | | | |
| 18 | 322 | 0.0 | 0 | H | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 367 | 33.9 | 88 | L | | | | | | | | |

MAY 30, 1978 150

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 380 | 13.0 | 35 | L | | | | | | | | |
| 3 | 379 | 13.7 | 50 | L | | | | | | | | |
| 4 | 375 | 21.9 | 38 | L | | | | | | | | |
| 5 | 374 | 17.0 | 47 | L | | | | | | | | |
| 6 | 382 | 19.0 | 41 | L | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 385 | 18.6 | 44 | L | | | | | | | | |
| 10 | 388 | 20.0 | 46 | L | | | | | | | | |
| 11 | 387 | 20.1 | 44 | L | | | | | | | | |
| 12 | 377 | 18.3 | 35 | L | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 365 | 16.4 | 40 | L | | | | | | | | |
| 15 | 361 | 19.7 | 31 | L | | | | | | | | |
| 16 | 358 | 26.4 | 27 | L | | | | | | | | |
| 17 | 352 | 16.1 | 32 | L | | | | | | | | |
| 18 | 344 | 17.3 | 55 | L | | | | | | | | |
| 19 | 339 | 17.3 | 110 | L | | | | | | | | |
| 20 | 332 | 9.6 | 80 | L | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 351 | 4.3 | 31 | L | | | | | | | | |
| 24 | 351 | 5.9 | 49 | L | | | | | | | | |

MAY 31, 1978 151

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 376 | 7.3 | 49 | L | | | | | | | | |
| 2 | 375 | 10.4 | 82 | L | | | | | | | | |
| 3 | 374 | 8.7 | 57 | L | | | | | | | | |
| 4 | 380 | 7.2 | 48 | L | | | | | | | | |
| 5 | 390 | 8.3 | 46 | L | | | | | | | | |
| 6 | 386 | 8.4 | 46 | L | | | | | | | | |
| 7 | 383 | 3.9 | 55 | L | | | | | | | | |
| 8 | 383 | 2.9 | 62 | L | | | | | | | | |
| 9 | 387 | 5.2 | 44 | L | | | | | | | | |
| 10 | 384 | 1.9 | 85 | L | | | | | | | | |
| 11 | 384 | 2.5 | 66 | L | | | | | | | | |
| 12 | 379 | 4.9 | 52 | L | | | | | | | | |
| 13 | 380 | 10.5 | 39 | L | | | | | | | | |
| 14 | 396 | 9.9 | 42 | L | | | | | | | | |
| 15 | 404 | 16.9 | 28 | L | | | | | | | | |
| 16 | 398 | 19.4 | 23 | L | | | | | | | | |
| 17 | 395 | 15.2 | 24 | L | | | | | | | | |
| 18 | 394 | 14.6 | 20 | L | | | | | | | | |
| 19 | 390 | 12.9 | 20 | L | | | | | | | | |
| 20 | 390 | 12.1 | 22 | L | | | | | | | | |
| 21 | 394 | 12.2 | 25 | L | | | | | | | | |
| 22 | 398 | 11.4 | 24 | L | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 391 | 8.2 | 41 | L | | | | | | | | |

JUN. 1, 1978 152

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 7.8 | 51 | L | | | | | | | | |
| 2 | 389 | 7.4 | 45 | L | | | | | | | | |
| 3 | 394 | 6.1 | 47 | L | | | | | | | | |
| 4 | 396 | 5.7 | 58 | L | | | | | | | | |
| 5 | 385 | 5.1 | 53 | L | | | | | | | | |
| 6 | 387 | 7.4 | 62 | L | | | | | | | | |
| 7 | 362 | 7.1 | 47 | L | | | | | | | | |
| 8 | 385 | 5.9 | 61 | L | | | | | | | | |
| 9 | 408 | 6.5 | 71 | L | | | | | | | | |
| 10 | 393 | 6.5 | 100 | L | | | | | | | | |
| 11 | 346 | 6.0 | 47 | L | | | | | | | | |
| 12 | 365 | 6.2 | 53 | L | | | | | | | | |
| 13 | 373 | 6.4 | 73 | L | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 2, 1978 153

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 417 | 8.0 | 151 | L | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 447 | 6.6 | 161 | L | | | | | | | | |
| 8 | 452 | 15.7 | 138 | L | | | | | | | | |
| 9 | 459 | 24.9 | 68 | L | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 680 | 133.1 | 272 | L | | | | | | | | |
| 12 | 688 | 75.3 | 419 | L | | | | | | | | |
| 13 | 685 | 31.2 | 834 | L | | | | | | | | |
| 14 | 698 | 39.6 | 1016 | L | | | | | | | | |
| 15 | 667 | 61.0 | 509 | L | | | | | | | | |
| 16 | 684 | 62.0 | 527 | L | | | | | | | | |
| 17 | 556 | 23.7 | 686 | A | | | | | | | | |
| 18 | 562 | 7.0 | 363 | A | | | | | | | | |
| 19 | 642 | 49.0 | 356 | L | | | | | | | | |
| 20 | 660 | 64.6 | 285 | L | | | | | | | | |
| 21 | 679 | 23.3 | 63 | J | | | | | | | | |
| 22 | 676 | 13.1 | 54 | J | 29.3 | 78 | 113 | -2.2 | -4.1 | 27.0 | 10 | J |
| 23 | 681 | 14.4 | 86 | J | 24.8 | 45 | 212 | -14.8 | -14.6 | 13.2 | 3 | J |
| 24 | 661 | 11.7 | 66 | J | 22.7 | 45 | 226 | -11.0 | -16.0 | 11.2 | 3 | J |

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HR      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000   SC  MAGN LAT LON                     SC

                        JUN. 3, 1978                       154

 1
 2
 3      614 13.2  23  L   18.2  45 209 -11.2  -9.0  11.0  1  J
 4      661 21.8  63  J   17.1  51  48   2.3   1.7   4.7 16  J
 5      658 16.2  82  J   14.1  21  38   9.0   6.4   5.3  7  J
 6      658 12.0  82  J    9.3  55 340   4.7  -2.3   7.0  4  J
 7      683 11.2  52  J    6.4  21 236  -2.9  -4.3   1.8  3  J
 8      681 13.4  50  J    4.9  12 223  -3.4  -3.1   1.0  1  J
 9      667 10.9  67  J    3.2  22 245  -0.7  -1.4   0.7  3  J
10      654  8.6  54  J    2.7  30 360   0.9   0.0   0.5  2  J
11      656  9.6  12  L    3.7  77 328   0.7  -0.1   3.5  1  J
12      651  7.0  13  L    4.3  61 232  -1.3  -1.3   3.8  1  J
13      656  7.1  53  J    4.7  61 232  -1.4  -1.5   4.1  1  J
14      648  4.9  62  J    5.6  81 170  -0.8   0.4   5.4  1  J
15      646  5.2  74  J    6.1  64 221  -2.0  -1.7   5.4  1  J
16      621  7.1  57  J    6.3  48 259  -0.8  -4.3   4.4  1  J
17      617  7.3  48  J    6.2  33 243  -2.3  -4.8   2.7  1  J
18      611  7.1  40  J    5.5  24 240  -2.4  -4.5   1.4  1  J
19      614  6.2  42  J    4.8  -4 234  -2.8  -3.7  -1.2  0  J
20      602  6.9  36  J    3.8  50 148  -0.5   0.1   0.8  4  J
21      602  4.6  40  J    6.2  56 105  -0.8   1.5   5.5  2  J
22      593  5.0  37  J    7.2  80 151  -1.1  -1.7   6.8  1  J
23      578  6.8  54  J    7.7  63 287   1.0  -5.2   5.1  2  J
24      575  8.1  62  J    7.4  59 276   0.4  -5.5   4.6  2  J

VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
        1000   SC  MAGN LAT LON                     SC

                JUN. 4, 1978                       155

560  6.8  41  J    6.9  29 284   1.4  -6.5   1.4  1  J
558 10.2  37  J    5.8  11 280   0.9  -5.3  -0.4  2  J
554 10.0  33  J    5.2 -20 275   0.4  -4.3  -2.8  1  J
544  2.1  39  J    5.0   4 273   0.3  -5.0  -0.6  0  J
564  2.2  53  J    4.6   5 255  -1.1  -4.1  -0.2  2  J
569  1.8  59  J    4.0  36 226  -1.6  -1.8   1.5  3  J
546  2.7  80  J    4.2  49 304   0.8  -1.2   1.6  4  J
532  2.5  87  J    4.9  16 307   2.3  -3.1   1.2  3  J
519  2.2  43  J    5.0   4 306   2.6  -3.6   0.5  2  J
527  2.1  46  J    5.1 -11 294   1.8  -4.1  -0.5  2  J
514  2.3  50  J    5.1 -21 303   2.3  -3.7  -1.3  2  J
528  2.2  52  J    5.3  -5 284   1.1  -4.6   0.0  2  J
610  4.6 304  J    9.1 -15 276   0.7  -7.1  -1.3  6  J
657  6.6 610  J    9.6  17 263  -0.9  -6.8   2.5  6  J
638  8.7 408  J    8.8  65  66   1.4   3.2   7.4  3  J
637  8.4 412  J    8.3  79  75   0.3   0.9   6.4  5  J

630  7.3 174  J    9.4  23 232  -5.1  -7.0   2.3  3  J
630  7.0 182  J    8.7  25 232  -4.7  -6.7   2.1  2  J
604  6.4 198  J    8.3  33 249  -2.5  -7.4   2.5  1  J
599  7.2 162  J    8.3 -36 247  -1.7  -2.8  -4.2  6  J
595  7.4 161  J    8.2 -76 262  -0.3   0.7  -7.8  2  J
600  6.2 149  J    8.1 -79 219  -1.2   1.7  -7.7  1  J
575  7.6 107  J    8.0 -85 131  -0.4   2.8  -6.9  3  J

                        JUN. 5, 1978                       156

 1      600  7.4  90  J    8.2  -1 233  -2.8  -3.6  -1.2  7  J
 2      579  7.2  67  J    8.3 -37 244  -2.7  -4.1  -5.9  3  J
 3      572  7.3  61  J    7.9 -48 232  -3.1  -2.7  -6.4  2  J
 4      546  7.0  59  J    7.5 -79 265  -0.1  -0.1  -7.3  2  J
 5      526  6.7  63  J    7.6 -67   2   2.7   0.9  -6.4  3  J
 6      519  7.1  61  J    6.9 -48  25   4.1   2.3  -4.9  1  J
 7      507  6.0  41  J    7.3 -49  24   4.3   2.0  -5.4  1  J
 8      503  6.6  40  J    7.0 -24  45   4.4   4.3  -2.9  2  J
 9      510  6.8  39  J    7.0 -41   6   4.7   0.2  -4.2  3  J
10      504  7.1  35  J    7.2 -32   8   6.0   0.5  -3.8  2  J
11      501  9.1  37  J    9.8 -22   4   8.9   0.3  -3.6  2  J
12      499  7.2  34  J    8.7  -4   1   8.2   0.1  -0.6  3  J
13      499  6.9  38  J    8.0  17  10   7.3   1.5   2.2  2  J
14      499  8.8  37  J    8.5  25   8   7.4   1.2   3.4  2  J
15      503  9.1  36  J    8.2  34  12   6.6   1.4   4.5  1  J
16      498 10.8  35  J    8.5  48   5   5.5   0.2   6.2  2  J
17      503 12.0  41  J   10.2  39 354   6.9  -1.3   5.5  5  J
18      501 10.8  51  J    9.9  34 331   6.7  -4.5   4.5  3  J
19      504 14.3  47  J    9.8  66 323   3.1  -4.1   7.9  3  J
20      493 15.1  46  J    9.6  54 296   2.4  -6.7   5.9  2  J
21      497 14.5  44  J    9.7  48 274   0.4  -7.7   4.6  4  J
22      491 13.4  45  J    9.6  35 256  -1.8  -8.6   2.7  3  J
23      488 12.9  47  J   10.2  35 250  -2.8  -9.2   3.0  2  J
24      477 13.5  45  J   10.6  19 258  -2.0  -9.9   0.2  3  J

                JUN. 6, 1978                       157

464 11.0  33  J    9.0  33 273   0.4  -8.4   2.5  1  J
465  9.4  36  J    8.8  37 272   0.2  -7.9   3.2  2  J
454  8.6  33  J    8.3  30 276   0.7  -7.4   2.4  3  J
429  7.0  56  J    8.5  45 352   5.5  -1.7   5.3  3  J
445  6.5  56  J    8.9  44 328   5.2  -3.9   5.5  3  J
467  7.0  47  J    8.7  45 290   2.0  -5.7   5.4  3  J
469  3.5  41  J    9.2  22 249  -3.1  -8.0   3.3  1  J
488  4.0  47  J    9.1  22 240  -4.2  -7.1   3.6  1  J
470  4.2  50  J    8.7  13 249  -3.0  -7.6   2.4  2  J
443  5.6  66  L
464  4.9  81  L    6.9 -13 232  -3.2  -4.2  -0.7  5  J
451  5.0  50  J    6.9  -6 252  -2.0  -6.3  -0.0  2  J
454  3.3  38  J    6.6 -27 247  -2.2  -5.4  -2.4  2  J
447  3.3  37  J    6.6  -6 254  -1.7  -6.0  -0.3  2  J

422  3.4  63  L    5.8  10 301   2.7  -4.5   0.5  2  J
435  3.1  31  J    5.8  19 286   1.5  -5.4   1.0  1  J
424  3.4  33  J    5.7  14 290   1.9  -5.3   0.2  1  J
417  3.3  31  J    5.7  11 277   0.7  -5.5  -0.4  1  J
424  2.9  32  J    5.8 -14 276   0.5  -4.6  -2.8  2  J
422  3.3  33  J    6.2 -10 270  -0.0  -5.1  -2.7  2  J
423  4.8  37  J    6.4 -19 275   0.5  -5.0  -3.8  1  J
413  4.6  34  J    6.5 -19 274   0.4  -5.0  -3.7  2  J
415  4.3  33  J

                        JUN. 7, 1978                       158

 1      419  4.4  30  J    6.6 -12 266  -0.4  -5.3  -2.9  3  J
 2      422  4.3  29  J    6.5 -13 260  -1.1  -5.5  -2.9  2  J
 3      382  4.4  37  J    5.7   7 313   3.7  -4.0  -0.2  2  J
 4      382  4.7  34  J    5.7   5 327   3.8  -2.5  -0.0  3  J
 5      387  4.3  35  J    5.8 -12 305   2.9  -3.9  -1.5  3  J
 6      392  4.7  33  J    6.5 -19 300   2.7  -4.6  -2.2  3  J
 7      386  4.6  38  J    6.8  40 322   3.7  -2.9   4.0  3  J
 8      384  5.1  32  J    6.8  25 313   4.1  -4.3   3.0  1  J
 9      398  5.1  28  J    7.2 -15 285   1.7  -6.6  -1.3  2  J
10      400  4.9  25  J    6.8 -33 286   1.5  -5.7  -3.1  1  J
11      383  4.5  56  L
12      381  4.7  63  L    6.3  -8 292   2.3  -5.8  -0.2  0  J
13      381  4.2  49  L    6.3  -8 291   2.2  -5.8  -0.3  1  J
14      387  4.4  46  L
15      391  5.4  47  L
16      414  5.9  25  J    7.4  10 276   0.8  -7.2   1.1  1  J
17      404  6.0  27  J    7.5  -6 288   2.2  -6.7  -1.4  2  J
18      413  7.2  28  J    8.9 -18 279   1.3  -7.7  -3.9  2  J
19      410  8.4  44  J    8.7 -20 294   2.9  -5.9  -3.9  4  J
20      393  7.3  41  J    9.0 -21 302   4.2  -5.7  -4.6  3  J
21      411  7.3  32  J    9.0  -5 284   2.0  -7.4  -3.0  4  J
22      407  7.9  31  J    8.7 -23 288   2.1  -5.2  -4.7  5  J
23      392  7.6  46  J    8.5   7 293   2.9  -6.7  -1.2  4  J
24      396 10.5 108  J    5.3   1 325   3.9  -2.7  -0.7  2  J

                JUN. 8, 1978                       159

420  9.3  90  J    5.5  -4 325   2.5  -1.6  -0.7  5  J
433  9.0 110  J    5.8 -47 283   0.7  -2.1  -3.9  4  J
430  8.3  84  J    5.3 -18 311   2.6  -2.7  -1.9  3  J
438  8.4  93  J    5.3  -5 313   2.4  -2.5  -0.7  4  J
451  8.1  93  J    5.0 -58 211  -1.5  -0.6  -3.0  4  J
435  8.0  88  J    5.2 -19 275   0.3  -3.5  -1.4  3  J
426  7.3  78  J    5.2 -31 275   0.3  -3.6  -2.2  3  J
418  5.7  58  J    5.8  23 297   2.3  -4.5   2.4  1  J
400  5.3  85  L

416  0.0   0  H
396  4.3  68  L



393  0.0   0  H
387  5.6  58  L
382  5.3  56  L
384  5.9  60  L
388  5.4  72  L
392  5.7  68  L
379  5.6  64  L
377  5.5  65  L
381  0.0   0  H

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 1      373  5.6  79  L
 2      378  5.9  87  L
 3
 4
 5
 6      385  0.0   0  H
 7
 8      393  0.0   0  H
 9      368  6.0  77  L
10
11
12
13      365  5.7  66  L
14      359  5.6  54  L
15      361  6.1  61  L
16      370  6.1  43  L
17      356  6.8  51  L
18      355  5.9  57  L
19
20
21
22
23      361  8.6  27  L
24      359  8.9  31  L

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362  8.8  34  L
359  9.2  31  L

364 11.1  26  L
366  0.0   0  H
352  8.7  32  L
368  0.0   0  H
344  8.3  41  L
501  0.0   0  H
472  0.0   0  H





621  0.0   0  H
615  0.0   0  H
607  0.0   0  H
567  0.0   0  H
565  0.0   0  H

559  0.0   0  H

507  0.0   0  H
```

06/11/78 – 06/19/78

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OF POOR QUALITY

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 504 | 0.0 | 0 | H | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 543 | 0.0 | 0 | H | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 522 | 0.0 | 0 | H | | | | | | | | |
| 7 | 541 | 0.0 | 0 | H | | | | | | | | |
| 8 | 523 | 0.0 | 0 | H | | | | | | | | |
| 9 | 492 | 0.0 | 0 | H | | | | | | | | |
| 10 | 487 | 0.0 | 0 | H | | | | | | | | |
| 11 | 437 | 0.0 | 0 | H | | | | | | | | |
| 12 | 437 | 0.0 | 0 | H | | | | | | | | |
| 13 | 437 | 0.0 | 0 | H | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 437 | 0.0 | 0 | H | | | | | | | | |
| 17 | 438 | 0.0 | 0 | H | | | | | | | | |
| 18 | 454 | 0.0 | 0 | H | | | | | | | | |
| 19 | 440 | 0.0 | 0 | H | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 0.0 | 0 | H | | | | | | | | |
| 2 | 485 | 0.0 | 0 | H | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 480 | 0.0 | 0 | H | | | | | | | | |
| 5 | 470 | 0.0 | 0 | H | | | | | | | | |
| 6 | 517 | 0.0 | 0 | H | | | | | | | | |
| 7 | 475 | 0.0 | 0 | H | | | | | | | | |
| 8 | 450 | 0.0 | 0 | H | | | | | | | | |
| 9 | 485 | 0.0 | 0 | H | | | | | | | | |
| 10 | 471 | 0.0 | 0 | H | | | | | | | | |
| 11 | 500 | 0.0 | 0 | H | | | | | | | | |
| 12 | 500 | 0.0 | 0 | H | | | | | | | | |
| 13 | 512 | 0.0 | 0 | H | | | | | | | | |
| 14 | 469 | 0.0 | 0 | H | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 510 | 0.0 | 0 | H | | | | | | | | |
| 18 | 519 | 0.0 | 0 | H | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 487 | 0.0 | 0 | H | | | | | | | | |
| 21 | 497 | 0.0 | 0 | H | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 537 | 0.0 | 0 | H | | | | | | | | |
| 24 | | | | | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 395 | 3.9 | 76 | J | 5.2 | -10 | 175 | -5.0 | 0.3 | -0.9 | 1 | J |
| 10 | 378 | 4.2 | 39 | J | 5.6 | 0 | 168 | -5.2 | 1.1 | -0.2 | 2 | J |
| 11 | 382 | 3.8 | 49 | J | 5.3 | 20 | 154 | -4.0 | 2.2 | 1.3 | 2 | J |
| 12 | 370 | 3.7 | 49 | J | 5.4 | 23 | 169 | -4.0 | 1.0 | 1.6 | 2 | J |
| 13 | 368 | 4.8 | 42 | J | 4.8 | 18 | 161 | -3.6 | 1.4 | 1.0 | 3 | J |
| 14 | 374 | 5.2 | 33 | J | 4.6 | 33 | 166 | -2.9 | 1.0 | 1.9 | 3 | J |
| 15 | 374 | 5.5 | 37 | J | 4.1 | 31 | 171 | -3.0 | 0.6 | 1.8 | 2 | J |
| 16 | 378 | 6.2 | 44 | J | 3.2 | -20 | 143 | -2.2 | 1.6 | -1.0 | 1 | J |
| 17 | 386 | 6.6 | 57 | J | 2.6 | -67 | 112 | -0.3 | 0.8 | -1.8 | 2 | J |
| 18 | 389 | 6.7 | 49 | J | 3.7 | -59 | 21 | 1.6 | 0.9 | -2.8 | 1 | J |
| 19 | 369 | 6.6 | 51 | J | 4.2 | 24 | 166 | -2.8 | 0.5 | 1.4 | 3 | J |
| 20 | 375 | 6.4 | 50 | J | 3.9 | -8 | 105 | -0.6 | 2.4 | 0.1 | 3 | J |
| 21 | 387 | 6.9 | 52 | J | 3.8 | -36 | 61 | 1.5 | 3.1 | -1.5 | 1 | J |
| 22 | 382 | 6.9 | 38 | J | 4.5 | -21 | 78 | 0.9 | 4.3 | -0.5 | 1 | J |
| 23 | 374 | 7.6 | 42 | J | 4.4 | -49 | 99 | -0.4 | 3.2 | -2.2 | 2 | J |
| 24 | 377 | 8.0 | 46 | J | 4.5 | 1 | 77 | 0.9 | 3.8 | 1.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 371 | 7.4 | 45 | J | 4.3 | -59 | 108 | -0.7 | 2.8 | -3.0 | 1 | J |
| 2 | 380 | 7.7 | 48 | J | 4.5 | -57 | 44 | 1.7 | 2.3 | -3.2 | 1 | J |
| 3 | 357 | 7.9 | 59 | J | 4.5 | -1 | 127 | -2.5 | 3.3 | 0.4 | 2 | J |
| 4 | 357 | 8.0 | 63 | J | 4.7 | -8 | 118 | -2.1 | 4.0 | -0.2 | 1 | J |
| 5 | 368 | 8.7 | 50 | J | 4.6 | -67 | 65 | 0.7 | 1.7 | -3.9 | 2 | J |
| 6 | 358 | 8.1 | 48 | J | 4.5 | -63 | 133 | -1.2 | 1.3 | -3.5 | 2 | J |
| 7 | 354 | 8.4 | 53 | J | 4.4 | -62 | 153 | -1.8 | 0.7 | -3.8 | 1 | J |
| 8 | 361 | 9.0 | 50 | J | 4.7 | -49 | 109 | -1.0 | 2.5 | -3.6 | 1 | J |
| 9 | 355 | 9.3 | 48 | J | 4.8 | -33 | 127 | -2.2 | 2.6 | -2.8 | 2 | J |
| 10 | | | | | | | | | | | | |
| 11 | 364 | 10.0 | 47 | J | 5.2 | -39 | 101 | -0.7 | 3.0 | -3.5 | 2 | J |
| 12 | 356 | 10.3 | 49 | J | 5.6 | -51 | 114 | -1.3 | 2.1 | -4.2 | 3 | J |
| 13 | 351 | 9.9 | 43 | J | 5.8 | 4 | 109 | -1.6 | 4.6 | -0.4 | 3 | J |
| 14 | 365 | 10.5 | 40 | J | 5.5 | -25 | 79 | 0.9 | 4.2 | -2.7 | 2 | J |
| 15 | 368 | 10.7 | 43 | J | 5.4 | -18 | 61 | 2.3 | 4.0 | -1.9 | 2 | J |
| 16 | 359 | 10.3 | 40 | J | 5.5 | -5 | 88 | 0.2 | 4.9 | -0.6 | 2 | J |
| 17 | 355 | 10.3 | 39 | J | 5.6 | 0 | 96 | -0.5 | 5.1 | 0.2 | 2 | J |
| 18 | 340 | 10.2 | 36 | J | 5.6 | 16 | 135 | -3.3 | 3.1 | 1.6 | 3 | J |
| 19 | 343 | 10.2 | 33 | J | 5.6 | 5 | 114 | -1.7 | 3.8 | 1.0 | 4 | J |
| 20 | | | | | | | | | | | | |
| 21 | 341 | 9.2 | 34 | J | 6.8 | 10 | 149 | -5.5 | 2.9 | 1.9 | 2 | J |
| 22 | 336 | 8.6 | 31 | J | 6.3 | 19 | 170 | -5.5 | 0.5 | 2.1 | 2 | J |
| 23 | 340 | 9.4 | 43 | J | 6.6 | 32 | 202 | -5.0 | -2.8 | 2.8 | 1 | J |
| 24 | 343 | 10.3 | 39 | J | 6.4 | 39 | 178 | -4.9 | -0.8 | 3.9 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 332 | 15.7 | 19 | J | 5.4 | 38 | 194 | -3.3 | -1.4 | 2.4 | 3 | J |
| 2 | 336 | 13.5 | 15 | J | 6.9 | 16 | 120 | -3.3 | 5.3 | 3.0 | 0 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | 5.4 | 20 | 131 | -3.3 | 3.9 | 1.4 | 1 | J |
| 9 | | | | | 5.4 | 5 | 114 | -2.1 | 4.7 | -0.2 | 2 | J |
| 10 | 339 | 13.5 | 66 | J | 5.2 | -1 | 134 | -3.6 | 3.7 | -0.7 | 1 | J |
| 11 | 345 | 12.4 | 47 | J | 5.0 | -51 | 175 | -2.7 | -0.4 | -3.3 | 3 | J |
| 12 | 348 | 12.4 | 43 | J | 4.6 | -6 | 131 | -1.8 | 1.9 | -0.6 | 4 | J |
| 13 | 344 | 12.0 | 39 | J | 5.3 | 9 | 128 | -2.9 | 3.7 | 0.1 | 3 | J |
| 14 | 352 | 11.9 | 50 | J | 5.8 | 19 | 116 | -2.2 | 4.7 | 1.1 | 2 | J |
| 15 | 362 | 12.1 | 39 | J | 6.6 | 21 | 78 | 1.2 | 5.7 | 1.7 | 3 | J |
| 16 | 354 | 12.6 | 46 | J | 6.1 | 50 | 127 | -1.8 | 2.5 | 3.5 | 4 | J |
| 17 | 360 | 13.5 | 47 | J | 6.4 | 27 | 85 | 0.4 | 4.7 | 2.6 | 3 | J |
| 18 | 359 | 13.2 | 46 | J | 6.3 | -10 | 77 | 1.2 | 5.0 | -0.5 | 4 | J |
| 19 | 369 | 12.9 | 47 | J | 6.3 | -33 | 67 | 1.9 | 4.8 | -2.4 | 3 | J |
| 20 | 347 | 13.5 | 47 | J | 6.0 | -6 | 119 | -1.7 | 3.1 | 0.2 | 5 | J |
| 21 | 344 | 13.5 | 51 | J | 5.5 | 32 | 134 | -2.2 | 1.8 | 2.5 | 4 | J |
| 22 | 362 | 12.3 | 64 | J | 5.4 | -36 | 103 | -0.6 | 3.1 | -1.3 | 4 | J |
| 23 | 365 | 10.7 | 62 | J | 6.8 | -53 | 83 | 0.5 | 4.9 | -3.9 | 3 | J |
| 24 | 354 | 11.6 | 80 | J | 7.2 | 14 | 132 | -4.2 | 4.2 | 2.6 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 11.0 | 84 | J | 6.6 | -26 | 127 | -3.2 | 4.7 | -1.6 | 3 | J |
| 2 | 375 | 10.9 | 83 | J | 6.7 | 12 | 132 | -4.3 | 4.4 | 2.2 | 2 | J |
| 3 | | | | | 6.2 | 11 | 145 | -4.5 | 3.0 | 1.5 | 3 | J |
| 4 | | | | | 5.2 | -5 | 130 | -3.1 | 3.7 | -0.1 | 2 | J |
| 5 | | | | | | | | | | | | |
| 6 | 392 | 9.3 | 72 | J | 6.4 | 12 | 91 | -0.1 | 6.0 | 1.2 | 2 | J |
| 7 | 378 | 9.6 | 110 | J | 5.2 | -16 | 162 | -3.0 | 0.9 | -1.0 | 4 | J |
| 8 | 376 | 9.3 | 85 | J | 5.4 | 7 | 126 | -2.6 | 3.6 | 0.1 | 3 | J |
| 9 | 381 | 9.2 | 73 | J | 6.6 | 41 | 110 | -1.5 | 4.5 | 3.1 | 3 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | 6.2 | -31 | 92 | -0.1 | 3.4 | -3.0 | 4 | J |
| 12 | | | | | 6.2 | 3 | 77 | 1.2 | 5.2 | -0.7 | 3 | J |
| 13 | 390 | 8.8 | 66 | J | 6.0 | -10 | 76 | 1.4 | 5.2 | -1.9 | 2 | J |
| 14 | 381 | 8.8 | 74 | J | 5.9 | 3 | 96 | -0.6 | 5.3 | -0.5 | 2 | J |
| 15 | 386 | 8.6 | 69 | J | 5.9 | -19 | 87 | 0.3 | 5.1 | -2.3 | 2 | J |
| 16 | 397 | 9.2 | 80 | J | 5.9 | -19 | 47 | 3.1 | 3.2 | -1.7 | 3 | J |
| 17 | 393 | 8.7 | 70 | J | 6.0 | -13 | 86 | 0.4 | 5.5 | -1.2 | 2 | J |
| 18 | 396 | 9.0 | 65 | J | 6.3 | -32 | 75 | 1.3 | 5.2 | -2.8 | 1 | J |
| 19 | 397 | 9.2 | 69 | J | 6.2 | -42 | 60 | 2.2 | 4.3 | -3.4 | 2 | J |
| 20 | 395 | 9.0 | 73 | J | 6.3 | -42 | 54 | 1.2 | 1.9 | -1.5 | 6 | J |
| 21 | 389 | 8.8 | 59 | J | 7.3 | 43 | 227 | -3.5 | -4.7 | 3.8 | 2 | J |
| 22 | 397 | 8.7 | 57 | J | 6.9 | 59 | 232 | -2.0 | -3.7 | 4.6 | 3 | J |
| 23 | 388 | 8.5 | 65 | J | 5.8 | -22 | 171 | -2.8 | 0.7 | -1.0 | 5 | J |
| 24 | 403 | 8.8 | 79 | J | 6.5 | -35 | 111 | -1.6 | 4.9 | -2.1 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 400 | 9.1 | 83 | J | 6.4 | 75 | 179 | -1.2 | -0.9 | 4.3 | 4 | J |
| 2 | 392 | 8.8 | 80 | J | 6.3 | 21 | 131 | -2.8 | 2.9 | 2.2 | 4 | J |
| 3 | 393 | 9.1 | 81 | J | 6.7 | 27 | 131 | -2.9 | 3.0 | 2.6 | 4 | J |
| 4 | 390 | 9.0 | 73 | J | 6.1 | 43 | 191 | -3.2 | -0.9 | 2.9 | 4 | J |
| 5 | 396 | 9.6 | 76 | J | 6.9 | 45 | 119 | -2.1 | 3.6 | 4.4 | 3 | J |
| 6 | 391 | 9.1 | 68 | J | 7.2 | -14 | 117 | -2.9 | 5.6 | -1.7 | 3 | J |
| 7 | 402 | 8.9 | 66 | J | 6.7 | -25 | 102 | -1.0 | 4.6 | -2.6 | 4 | J |
| 8 | 408 | 8.9 | 73 | J | 6.1 | -24 | 96 | -0.5 | 4.2 | -2.5 | 3 | J |
| 9 | 371 | 0.0 | 0 | H | | | | | | | | |
| 10 | 362 | 0.0 | 0 | H | | | | | | | | |
| 11 | 363 | 0.0 | 0 | H | | | | | | | | |
| 12 | 361 | 0.0 | 0 | H | | | | | | | | |
| 13 | 362 | 0.0 | 0 | H | | | | | | | | |
| 14 | 366 | 0.0 | 0 | H | | | | | | | | |
| 15 | 383 | 9.9 | 52 | J | 6.8 | -18 | 126 | -3.2 | 4.2 | -2.2 | 4 | J |
| 16 | 388 | 10.1 | 55 | J | 7.1 | -1 | 116 | -2.7 | 5.5 | -0.4 | 4 | J |
| 17 | 395 | 11.0 | 51 | J | 6.7 | 1 | 95 | -0.5 | 5.2 | 0.1 | 4 | J |
| 18 | 403 | 12.5 | 57 | J | 5.7 | 24 | 49 | 1.4 | 1.6 | 1.1 | 5 | J |
| 19 | 378 | 11.2 | 74 | L | | | | | | | | |
| 20 | 383 | 13.5 | 75 | L | 6.1 | 65 | 27 | 2.3 | 0.2 | 5.6 | 1 | J |
| 21 | 378 | 12.9 | 65 | L | | | | | | | | |
| 22 | 367 | 11.9 | 60 | L | | | | | | | | |
| 23 | 387 | 17.4 | 64 | L | | | | | | | | |
| 24 | 387 | 17.7 | 64 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 16.4 | 69 | J | 6.4 | 12 | 200 | -1.6 | -0.6 | 0.2 | 6 | J |
| 2 | 382 | 18.5 | 60 | L | | | | | | | | |
| 3 | 382 | 17.9 | 76 | J | 7.2 | -17 | 215 | -5.5 | -3.5 | -2.5 | 1 | J |
| 4 | 380 | 20.9 | 47 | J | 6.3 | 39 | 22 | 3.2 | 1.1 | 2.9 | 5 | J |
| 5 | 378 | 21.9 | 47 | J | 4.8 | 43 | 31 | 2.2 | 1.3 | 2.4 | 4 | J |
| 6 | 390 | 24.5 | 52 | J | 4.0 | -45 | 246 | -1.1 | -2.6 | -2.7 | 2 | J |
| 7 | 387 | 23.2 | 53 | J | 4.9 | -39 | 270 | -0.0 | -3.9 | -2.7 | 1 | J |
| 8 | 383 | 23.8 | 52 | J | 4.9 | -51 | 279 | 0.5 | -3.3 | -3.2 | 2 | J |
| 9 | 379 | 26.8 | 45 | J | 3.9 | -39 | 261 | -0.5 | -3.3 | -1.9 | 1 | J |
| 10 | 381 | 25.3 | 58 | L | | | | | | | | |
| 11 | 380 | 0.0 | 0 | H | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 368 | 0.0 | 0 | H | | | | | | | | |
| 16 | 375 | 18.3 | 107 | L | | | | | | | | |
| 17 | 379 | 18.1 | 65 | J | 6.7 | -59 | 358 | 3.2 | -0.1 | -5.3 | 3 | J |
| 18 | 392 | 17.0 | 108 | J | 7.1 | 7 | 336 | 4.1 | -1.8 | 0.4 | 5 | J |
| 19 | 442 | 12.4 | 127 | L | | | | | | | | |
| 20 | 476 | 9.6 | 226 | L | | | | | | | | |
| 21 | 470 | 9.5 | 272 | L | 5.7 | -77 | 71 | 0.4 | 2.3 | -5.1 | 1 | J |
| 22 | 471 | 10.2 | 274 | L | 6.3 | -50 | 358 | 4.0 | 0.9 | -4.7 | 1 | J |
| 23 | 502 | 7.9 | 285 | L | 7.6 | -76 | 28 | 1.6 | 2.5 | -6.9 | 1 | J |
| 24 | 507 | 5.5 | 320 | L | 7.6 | -9 | 303 | 3.1 | -4.4 | -1.9 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 511 | 4.7 | 226 | J | 7.8 | 6 | 309 | 4.3 | -5.4 | -0.3 | 4 | J |
| 2 | 517 | 5.6 | 201 | J | 7.9 | 24 | 326 | 5.8 | -4.4 | 2.5 | 2 | J |
| 3 | 497 | 4.0 | 162 | J | 8.7 | 14 | 339 | 5.2 | -6.6 | 1.3 | 2 | J |
| 4 | 493 | 3.8 | 143 | J | 8.5 | -1 | 302 | 4.2 | -6.7 | -0.6 | 3 | J |
| 5 | 480 | 3.0 | 90 | J | 9.3 | -8 | 307 | 5.4 | -7.2 | -1.4 | 2 | J |
| 6 | 459 | 4.6 | 159 | L | | | | | | | | |
| 7 | 463 | 3.6 | 68 | J | 8.6 | -19 | 315 | 5.6 | -5.8 | -2.2 | 1 | J |
| 8 | 447 | 3.7 | 85 | J | 8.3 | -19 | 314 | 5.1 | -5.6 | -1.8 | 3 | J |
| 9 | 420 | 4.4 | 90 | J | 7.6 | -6 | 314 | 5.1 | -5.3 | 0.1 | 2 | J |
| 10 | 394 | 5.0 | 98 | J | 7.1 | -3 | 315 | 4.9 | -4.9 | 0.6 | 2 | J |
| 11 | 392 | 5.8 | 105 | J | 6.7 | -25 | 306 | 2.9 | -4.3 | -1.4 | 4 | J |
| 12 | 394 | 6.3 | 91 | J | 6.2 | -68 | 288 | 0.6 | -2.8 | -4.3 | 3 | J |
| 13 | 377 | 5.8 | 125 | L | | | | | | | | |
| 14 | 375 | 4.5 | 99 | L | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 382 | 6.2 | 107 | L | | | | | | | | |
| 18 | 383 | 6.9 | 107 | L | | | | | | | | |
| 19 | 399 | 7.8 | 114 | L | | | | | | | | |
| 20 | 400 | 6.8 | 70 | J | 8.7 | 28 | 322 | 5.8 | -5.1 | 3.2 | 2 | J |
| 21 | 400 | 7.2 | 79 | J | 8.7 | 24 | 310 | 4.9 | -6.4 | 2.2 | 2 | J |
| 22 | 387 | 7.0 | 62 | J | 7.8 | -10 | 329 | 6.1 | -3.3 | -2.0 | 3 | J |
| 23 | 385 | 8.1 | 62 | J | 7.5 | -43 | 352 | 4.9 | 0.3 | -4.7 | 3 | J |
| 24 | 423 | 6.5 | 96 | J | 8.2 | -6 | 313 | 5.4 | -5.4 | -2.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 419 | 6.0 | 120 | L | | | | | | | | |
| 2 | | | | | 10.5 | -50 | 278 | 0.9 | -5.0 | -8.5 | 4 | J |
| 3 | | | | | | | | | | | | |
| 4 | 453 | 8.3 | 82 | J | 8.9 | -51 | 273 | 0.3 | -4.6 | -6.4 | 4 | J |
| 5 | 474 | 8.0 | 85 | J | 8.9 | -34 | 269 | -0.1 | -6.7 | -4.6 | 3 | J |
| 6 | 462 | 8.1 | 90 | J | 9.0 | -24 | 292 | 2.7 | -6.7 | -2.9 | 4 | J |
| 7 | 458 | 8.8 | 108 | J | 8.7 | -27 | 307 | 4.3 | -6.1 | -3.1 | 3 | J |
| 8 | 437 | 9.8 | 105 | L | | | | | | | | |
| 9 | 448 | 10.0 | 120 | L | | | | | | | | |
| 10 | 417 | 10.3 | 135 | J | 9.5 | 44 | 302 | 2.8 | -3.4 | 5.9 | 6 | J |
| 11 | 486 | 10.7 | 144 | J | 8.1 | 4 | 304 | 3.2 | -4.6 | 1.4 | 6 | J |
| 12 | 474 | 10.3 | 122 | J | 6.9 | -16 | 316 | 3.9 | -4.1 | -0.7 | 4 | J |
| 13 | 464 | 9.4 | 113 | J | 6.4 | -20 | 330 | 4.5 | -2.9 | -1.3 | 3 | J |
| 14 | | | | | 7.8 | 3 | 308 | 4.5 | -5.6 | 1.4 | 3 | J |
| 15 | 517 | 12.2 | 147 | L | | | | | | | | |
| 16 | 495 | 10.4 | 162 | L | | | | | | | | |
| 17 | 508 | 5.8 | 325 | L | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 630 | 2.5 | 230 | L | | | | | | | | |
| 24 | 625 | 2.6 | 211 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 629 | 3.0 | 227 | L | | | | | | | | |
| 2 | 627 | 2.8 | 234 | L | | | | | | | | |
| 3 | 633 | 3.4 | 227 | L | | | | | | | | |
| 4 | 595 | 0.0 | 0 | H | | | | | | | | |
| 5 | 641 | 0.0 | 0 | H | | | | | | | | |
| 6 | 581 | 0.0 | 0 | H | | | | | | | | |
| 7 | 580 | 3.7 | 165 | L | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 573 | 0.0 | 0 | H | | | | | | | | |
| 10 | 617 | 3.0 | 156 | L | | | | | | | | |
| 11 | 604 | 3.2 | 131 | L | | | | | | | | |
| 12 | 593 | 3.4 | 122 | L | | | | | | | | |
| 13 | 546 | 3.4 | 99 | L | | | | | | | | |
| 14 | 558 | 3.7 | 88 | L | | | | | | | | |
| 15 | 566 | 4.2 | 80 | L | | | | | | | | |
| 16 | 565 | 5.2 | 94 | L | | | | | | | | |
| 17 | 569 | 6.7 | 85 | L | | | | | | | | |
| 18 | 553 | 7.0 | 85 | L | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 556 | 8.1 | 74 | L | | | | | | | | |
| 21 | 546 | 5.7 | 107 | L | | | | | | | | |
| 22 | 534 | 6.7 | 103 | L | | | | | | | | |
| 23 | 525 | 6.2 | 98 | L | | | | | | | | |
| 24 | 521 | 5.6 | 75 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 503 | 5.4 | 59 | L | | | | | | | | |
| 2 | 506 | 6.0 | 67 | L | | | | | | | | |
| 3 | 506 | 7.5 | 158 | L | | | | | | | | |
| 4 | 484 | 6.9 | 62 | L | | | | | | | | |
| 5 | 439 | 12.1 | 43 | L | | | | | | | | |
| 6 | 430 | 10.0 | 30 | L | | | | | | | | |
| 7 | 476 | 7.2 | 28 | L | | | | | | | | |
| 8 | 491 | 0.0 | 0 | H | | | | | | | | |
| 9 | 509 | 0.0 | 0 | H | | | | | | | | |
| 10 | 489 | 9.3 | 126 | L | | | | | | | | |
| 11 | 488 | 8.2 | 213 | L | | | | | | | | |
| 12 | 495 | 7.4 | 207 | L | | | | | | | | |
| 13 | 495 | 7.4 | 236 | L | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 506 | 7.1 | 253 | L | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 495 | 8.2 | 210 | L | | | | | | | | |
| 19 | 490 | 7.4 | 188 | L | | | | | | | | |
| 20 | 480 | 7.4 | 176 | L | | | | | | | | |
| 21 | 479 | 7.4 | 161 | L | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 24, 1978 175

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 493 | 6.3 | 114 | L | | | | | | | | |
| 2 | 504 | 6.6 | 117 | L | | | | | | | | |
| 3 | 499 | 5.8 | 126 | L | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 466 | 6.0 | 144 | L | | | | | | | | |
| 6 | 492 | 5.9 | 140 | L | | | | | | | | |
| 7 | 495 | 5.9 | 151 | L | | | | | | | | |
| 8 | 499 | 6.0 | 134 | L | | | | | | | | |
| 9 | 487 | 0.0 | 0 | H | | | | | | | | |
| 10 | 480 | 0.0 | 0 | H | | | | | | | | |
| 11 | 525 | 0.0 | 0 | H | | | | | | | | |
| 12 | 540 | 0.0 | 0 | H | | | | | | | | |
| 13 | 512 | 0.0 | 0 | H | | | | | | | | |
| 14 | 511 | 0.0 | 0 | H | | | | | | | | |
| 15 | 536 | 0.0 | 0 | H | | | | | | | | |
| 16 | 557 | 0.0 | 0 | H | | | | | | | | |
| 17 | 530 | 0.0 | 0 | H | | | | | | | | |
| 18 | 522 | 0.0 | 0 | H | | | | | | | | |
| 19 | 537 | 0.0 | 0 | H | | | | | | | | |
| 20 | 515 | 0.0 | 0 | H | | | | | | | | |
| 21 | 573 | 0.0 | 0 | H | | | | | | | | |
| 22 | 565 | 0.0 | 0 | H | | | | | | | | |
| 23 | 513 | 0.0 | 0 | H | | | | | | | | |
| 24 | 527 | 0.0 | 0 | H | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 505 | 0.0 | 0 | H | | | | | | | | |
| 4 | 501 | 0.0 | 0 | H | | | | | | | | |
| 5 | 499 | 0.0 | 0 | H | | | | | | | | |
| 6 | 499 | 0.0 | 0 | H | | | | | | | | |
| 7 | 516 | 0.0 | 0 | H | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 511 | 0.0 | 0 | H | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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JUN. 26, 1978 177

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 8.8 | 10 | 45 | 6.0 | 5.8 | 2.2 | 2 | J |
| 3 | 490 | 20.2 | 131 | A | 8.1 | 10 | 42 | 5.5 | 4.8 | 1.7 | 3 | J |
| 4 | 504 | 18.9 | 115 | A | 6.1 | -8 | 53 | 3.5 | 4.6 | -0.7 | 2 | J |
| 5 | 493 | 16.6 | 141 | A | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | 12.1 | -52 | 242 | -3.4 | -8.3 | -7.8 | 2 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | 26.1 | -45 | 223 | -13.4 | -15.4 | -15.1 | 2 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 442 | 9.7 | 17 | J | 9.0 | -50 | 186 | -5.8 | -0.5 | -6.9 | 1 | J |
| 19 | 445 | 9.4 | 18 | J | 8.8 | -50 | 188 | -5.6 | -0.3 | -6.8 | 1 | J |
| 20 | 446 | 10.1 | 20 | J | 8.7 | -57 | 191 | -4.5 | -0.0 | -7.2 | 2 | J |
| 21 | 446 | 7.3 | 21 | J | 8.6 | -49 | 183 | -5.5 | 0.7 | -6.3 | 2 | J |
| 22 | 449 | 8.3 | 24 | J | 8.7 | -53 | 211 | -4.3 | -1.4 | -7.1 | 2 | J |
| 23 | 445 | 9.2 | 19 | J | 8.0 | -33 | 165 | -6.3 | 2.4 | -3.9 | 2 | J |
| 24 | 445 | 8.7 | 18 | J | 8.1 | -32 | 172 | -6.8 | 1.7 | -4.1 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 430 | 7.8 | 19 | J | 8.1 | -19 | 162 | -7.3 | 2.7 | -2.3 | 1 | J |
| 2 | 428 | 8.2 | 21 | J | 8.1 | -20 | 158 | -7.0 | 3.1 | -2.4 | 1 | J |
| 3 | 429 | 8.1 | 24 | J | 7.7 | -26 | 163 | -6.1 | 2.1 | -3.0 | 3 | J |
| 4 | 430 | 8.0 | 22 | J | 7.7 | -32 | 169 | -6.2 | 1.3 | -3.9 | 2 | J |
| 5 | 413 | 8.6 | 27 | J | | | | | | | | |
| 6 | 413 | 8.2 | 27 | J | 8.1 | -18 | 159 | -6.9 | 2.4 | -2.6 | 2 | J |
| 7 | 419 | 7.8 | 31 | J | 7.6 | -32 | 171 | -5.9 | 0.4 | -3.9 | 3 | J |
| 8 | 411 | 7.3 | 24 | J | 7.7 | 13 | 142 | -5.5 | 4.5 | 0.8 | 3 | J |
| 9 | 402 | 6.5 | 19 | J | 7.5 | 3 | 147 | -6.1 | 4.0 | -0.5 | 2 | J |
| 10 | 390 | 5.2 | 20 | J | 7.3 | -10 | 161 | -6.7 | 1.9 | -1.8 | 2 | J |
| 11 | 395 | 5.6 | 20 | J | 7.4 | -15 | 156 | -6.2 | 2.2 | -2.5 | 2 | J |
| 12 | | | | | | | | | | | | |
| 13 | 419 | 5.4 | 24 | J | 7.0 | -42 | 133 | -3.3 | 2.4 | -5.2 | 2 | J |
| 14 | 400 | 5.5 | 20 | J | 7.0 | -22 | 140 | -4.8 | 3.4 | -3.3 | 2 | J |
| 15 | 389 | 5.2 | 33 | J | 6.3 | 9 | 179 | -5.6 | 0.2 | 0.9 | 2 | J |
| 16 | 393 | 6.1 | 32 | J | 7.5 | -25 | 148 | -5.4 | 3.0 | -3.3 | 2 | J |
| 17 | 392 | 5.9 | 36 | J | 6.8 | -19 | 176 | -5.7 | 0.3 | -2.0 | 3 | J |
| 18 | 392 | 5.6 | 38 | J | 6.8 | -19 | 161 | -5.2 | 1.8 | -1.9 | 3 | J |
| 19 | 380 | 6.0 | 67 | J | 6.6 | -5 | 188 | -5.1 | -0.7 | -0.5 | 4 | J |
| 20 | | | | | 6.7 | -16 | 151 | -4.9 | 2.9 | -1.3 | 3 | J |
| 21 | 414 | 5.9 | 29 | J | 6.9 | -52 | 128 | -2.3 | 3.6 | -4.3 | 3 | J |
| 22 | 390 | 5.8 | 36 | J | 7.0 | 25 | 140 | -4.2 | 3.1 | 3.1 | 3 | J |
| 23 | 368 | 5.9 | 21 | J | 6.6 | 2 | 156 | -5.7 | 2.4 | 0.6 | 2 | J |
| 24 | 387 | 6.0 | 36 | J | 6.6 | -28 | 176 | -5.6 | 0.9 | -2.9 | 2 | J |

```
 HR     VEL   DEN TEMP/ PLS  AV B GSE GSE  BXGSM BYGSM BZGSM SG IMF   VEL   DEN TEMP/ PLS  AV B GSE GSE  BXGSM BYGSM BZGSM SG IMF
                  1000  SC   MAGN LAT LON                     SC                1000  SC   MAGN LAT LON                     SC

                             JUN. 28, 1978                   179                           JUN. 30, 1978                   181

  1     397   6.3   40  J
  2
  3
  4
  5
  6
  7
  8
  9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19                                                               386   0.0    0  H
 20                                                               355   0.0    0  H
 21                                                               397   0.0    0  H
 22                                                               408   0.0    0  H
 23                                                               399   0.0    0  H
 24                                                               405   0.0    0  H

                             JUL.  1, 1978                   182                           JUL.  2, 1978                   183

  1     408   0.0    0  H                                         403   3.3   42  J   4.7 -22 157  -3.8   1.8  -1.5  2  J
  2                                                               403   3.4   42  J   4.8  -4 147  -3.8   2.5  -0.1  1  J
  3                                                               402   3.5   46  J   4.7  12 145  -3.8   2.6   1.1  0  J
  4     393   0.0    0  H                                         415   3.8   47  J   4.9  24 130  -2.5   3.0   1.7  3  J
  5     404   0.0    0  H                                         425   4.4   57  J   5.2  49 113  -1.3   3.3   3.6  1  J
  6     379   0.0    0  H                                         431   4.5   60  J   4.7  48  97  -0.4   3.4   3.0  1  J
  7     411   0.0    0  H   6.6  21  94  -0.4   6.3   1.3  1  J   432   5.1   77  J   4.0  24 102  -0.6   2.9   0.8  2  J
  8     427   0.0    0  H                                         440   5.6   59  J   4.2 -11  76   0.3   1.2  -0.5  4  J
  9     423   0.0    0  H                                         406   5.0   47  J   4.1  28 150  -3.0   2.1   1.3  1  J
 10                                                               431   7.5   64  J   5.0  45 133  -2.3   3.3   2.5  2  J
 11                                                               437  10.2   71  J   6.6  60 162  -2.8   2.3   4.5  3  J
 12                                                               421   9.7   58  J   5.6  42 185  -4.0   0.7   3.6  2  J
 13                                                               413   8.5   52  J   6.0  47 177  -3.6   1.3   3.7  3  J
 14     473   0.0    0  H
 15     454   3.5  119  L                                         457   0.0    0  H   6.8  30 242  -1.5  -2.4   2.4  6  J
 16     459   3.9  122  L                                         430   0.0    0  H   6.6  43 133  -1.8   2.3   2.1  6  J
 17     447   3.6  108  L                                         422   7.8   81  J   6.1 -11 108  -1.4   4.2  -1.3  4  J
 18     443   3.1   48  J   4.0  -4 222  -2.6  -2.3  -0.2  1  J
 19     446   3.2   52  J   4.3  -5 162  -4.0   1.3  -0.3  1  J   414   8.0   75  J   6.3  -6 122  -3.3   5.3  -0.5  1  J
 20     443   2.9   77  L                                         399   7.4   59  J   6.5   1 116  -2.8   5.6   0.5  1  J
 21     441   3.0   84  L                                         399   7.2   49  J   6.6  -8 117  -3.0   5.9  -0.3  1  J
 22     444   3.1   77  L                                         393   7.1   52  J   6.6  -7 119  -3.2   5.8  -0.1  1  J
 23     435   3.3   84  L                                         391   7.6   50  J   6.7  -8 123  -3.6   5.6  -0.2  1  J
 24     414   3.3   47  J   4.7  -6 141  -3.6   2.9  -0.1  1  J   391   8.5   51  J   6.6 -12 132  -4.3   4.9  -0.7  1  J

                             JUL.  3, 1978                   184                           JUL.  4, 1978                   185

  1     388   8.6   53  J   6.6 -11 137  -4.7   4.5  -0.8  1  J   423  34.4   52  J
  2     383   8.8   39  J   6.8   2 119  -3.2   5.7   0.6  2  J   411  35.7   52  J
  3                           6.5  19 111  -2.2   5.7   2.3  0  J   420  30.8   63  J
  4     383   0.0    0  H   6.6  -8 145  -5.4   3.7  -1.0  1  J   441  33.9   79  J
  5     370   0.0    0  H   6.8  -3 146  -5.5   3.7  -0.6  1  J   435  34.0   83  J
  6     363   0.0    0  H                                         424   0.0    0  H
  7     357   7.7   29  J   6.4  -6 142  -4.9   3.7  -1.3  1  J   412   0.0    0  H
  8     356   7.7   29  J   6.3 -15 143  -4.8   3.2  -2.4  1  J   411   0.0    0  H
  9     360   8.4   33  J   5.9   1 137  -4.1   3.7  -0.9  2  J   419   0.0    0  H
 10     367  11.1   19  J   5.4 -14 134  -3.6   3.2  -2.3  1  J   456   0.0    0  H
 11     368  18.0   20  J   4.1 -52 228  -0.8  -1.3  -1.2  4  J   466   0.0    0  H
 12     369  19.2   23  J   2.9 -12 289   0.6  -1.7   0.1  2  J   443   0.0    0  H
 13     366  20.2   24  J   2.4 -82 179  -0.1  -0.3  -0.9  2  J   443   0.0    0  H
 14     363  18.4   24  J   1.9  -9 219  -0.9  -0.8   0.0  2  J   445   0.0    0  H
 15     366   0.0    0  H   2.2 -41  40   1.0   0.6  -1.3  1  J   431   0.0    0  H
 16     362  16.9   19  J   2.5 -41  69   0.2   0.4  -0.5  2  J   446   0.0    0  H
 17     361  19.6   19  J   1.3 -13 117  -0.5   1.0  -0.4  1  J   431   0.0    0  H
 18     365   0.0    0  H   1.8 -39  54   0.6   0.8  -0.9  1  J
 19     362  16.9   24  J   3.0 -35 357   2.0  -0.1  -1.4  2  J
 20     355  17.7   23  J   3.0 -29 307   1.6  -2.0  -1.6  1  J
 21     361   0.0    0  H                                         478   0.0    0  H
 22     361   0.0    0  H                                         484   0.0    0  H
 23     353  19.3   21  J
 24     402  32.9   39  J                                         470   0.0    0  H

                             JUL.  5, 1978                   186                           JUL.  6, 1978                   187

  1     462   0.0    0  H                                         457   6.7   66  L
  2                                                               449   5.2   57  L
  3                                                               450   3.6   72  L
  4     492   0.0    0  H                                         432   2.5   58  L
  5     499   0.0    0  H                                         439   4.2   33  L
  6                                                               445   4.7   25  L
  7     473   0.0    0  H                                         447   0.0    0  H
  8     484   0.0    0  H                                         444  11.3   30  L
  9     474   0.0    0  H                                         418   9.8   44  A
 10                                                               442   5.7   18  L
 11     487   0.0    0  H                                         434   4.8   17  L
 12     466   0.0    0  H
 13     473   0.0    0  H                                         428  11.7   19  L
 14     469   0.0    0  H                                         424  13.9   24  L
 15     466   0.0    0  H                                         425  15.7   56  L
 16     453   0.0    0  H                                         428   8.7   31  L
 17                                                               443   9.4   26  A
 18     437   8.8   18  L
 19     450   4.9   22  L                                         431  27.1   47  L
 20     448   4.3   35  L                                         423  17.6   37  A
 21     449   4.5   40  L                                         423  22.1   45  L
 22     450   6.9   56  L                                         418   0.0    0  H
 23     443   7.9   69  L                                         420  15.9   74  L
 24     449   5.8   61  L                                         440  25.3   70  L
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JUL. 7, 1978 188

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 444 | 18.4 | 101 | L | | | | | | | | |
| 2 | 435 | 11.4 | 126 | L | | | | | | | | |
| 3 | 429 | 10.1 | 92 | L | | | | | | | | |
| 4 | 427 | 9.9 | 81 | L | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 453 | 17.0 | 88 | L | | | | | | | | |
| 10 | 442 | 12.0 | 110 | L | | | | | | | | |
| 11 | 449 | 7.9 | 152 | L | | | | | | | | |
| 12 | 440 | 7.9 | 180 | L | | | | | | | | |
| 13 | 436 | 7.4 | 216 | L | | | | | | | | |
| 14 | 452 | 5.5 | 207 | L | | | | | | | | |
| 15 | 463 | 5.8 | 244 | L | | | | | | | | |
| 16 | 455 | 5.8 | 241 | L | | | | | | | | |
| 17 | 467 | 6.1 | 203 | L | | | | | | | | |
| 18 | 483 | 4.8 | 170 | L | | | | | | | | |
| 19 | 449 | 4.4 | 164 | L | | | | | | | | |
| 20 | 463 | 4.8 | 138 | L | | | | | | | | |
| 21 | 478 | 4.4 | 124 | L | | | | | | | | |
| 22 | 470 | 4.1 | 113 | L | | | | | | | | |
| 23 | 462 | 3.9 | 94 | L | | | | | | | | |
| 24 | 473 | 3.9 | 92 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 458 | 3.6 | 92 | L | | | | | | | | |
| 2 | 455 | 3.9 | 73 | L | | | | | | | | |
| 3 | 450 | 3.7 | 79 | L | | | | | | | | |
| 4 | 449 | 4.1 | 64 | L | | | | | | | | |
| 5 | 443 | 3.8 | 62 | L | | | | | | | | |
| 6 | 444 | 3.9 | 62 | L | | | | | | | | |
| 7 | 436 | 4.2 | 57 | L | | | | | | | | |
| 8 | 427 | 4.4 | 56 | L | | | | | | | | |
| 9 | 422 | 5.4 | 58 | L | | | | | | | | |
| 10 | 415 | 4.9 | 62 | L | | | | | | | | |
| 11 | 432 | 5.6 | 81 | L | | | | | | | | |
| 12 | 439 | 7.6 | 99 | A | | | | | | | | |
| 13 | 442 | 7.6 | 113 | A | 7.1 | -19 | 163 | -5.2 | 0.9 | -2.3 | 4 | J |
| 14 | 456 | 11.3 | 121 | L | 9.5 | 46 | 195 | -6.0 | 0.3 | 6.6 | 3 | J |
| 15 | 501 | 10.4 | 155 | L | 8.4 | 35 | 90 | 0.0 | 4.5 | 1.7 | 7 | J |
| 16 | 524 | 15.8 | 53 | L | 9.4 | -34 | 238 | -4.0 | -7.2 | -3.7 | 3 | J |
| 17 | 507 | 17.9 | 66 | L | 10.3 | -10 | 215 | -8.3 | -6.0 | -1.0 | 0 | J |
| 18 | 477 | 13.3 | 66 | A | | | | | | | | |
| 19 | 493 | 31.9 | 61 | J | 9.2 | 15 | 189 | -8.7 | -1.3 | 2.4 | 1 | J |
| 20 | 501 | 32.5 | 51 | J | 9.0 | 47 | 191 | -5.8 | -1.3 | 6.3 | 2 | J |
| 21 | 487 | 30.5 | 50 | J | 8.7 | 39 | 180 | -6.2 | -0.3 | 5.0 | 3 | J |
| 22 | 476 | 24.1 | 35 | L | | | | | | | | |
| 23 | 465 | 10.2 | 39 | A | | | | | | | | |
| 24 | 456 | 11.9 | 46 | A | | | | | | | | |

JUL. 9, 1978 190

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 469 | 15.8 | 55 | J | 8.7 | 0 | 204 | -7.6 | -3.4 | -0.2 | 3 | J |
| 2 | 483 | 14.2 | 49 | J | 10.1 | 21 | 198 | -8.7 | -2.9 | 3.4 | 2 | J |
| 3 | 475 | 12.1 | 53 | J | 9.8 | 29 | 204 | -7.4 | -3.2 | 4.5 | 3 | J |
| 4 | 453 | 9.2 | 62 | A | | | | | | | | |
| 5 | 456 | 11.5 | 36 | J | 9.8 | 27 | 176 | -8.6 | 1.1 | 4.3 | 1 | J |
| 6 | 454 | 10.7 | 62 | J | 9.8 | 30 | 167 | -8.1 | 2.6 | 4.4 | 2 | J |
| 7 | 440 | 9.4 | 60 | J | 10.1 | 33 | 180 | -8.5 | 1.2 | 5.4 | 1 | J |
| 8 | 439 | 10.4 | 72 | J | 10.1 | 29 | 171 | -8.6 | 2.6 | 4.3 | 1 | J |
| 9 | 457 | 7.6 | 96 | J | 9.5 | 28 | 156 | -6.9 | 4.1 | 2.9 | 4 | J |
| 10 | 460 | 6.4 | 77 | J | 9.6 | 36 | 157 | -6.9 | 4.5 | 4.2 | 3 | J |
| 11 | 459 | 5.2 | 68 | J | 10.0 | 31 | 154 | -7.2 | 4.9 | 3.3 | 3 | J |
| 12 | 479 | 5.2 | 119 | J | 9.3 | 22 | 130 | -5.1 | 6.8 | 1.0 | 4 | J |
| 13 | 487 | 5.1 | 147 | J | 9.1 | 24 | 146 | -5.6 | 4.5 | 1.6 | 5 | J |
| 14 | 479 | 4.9 | 155 | J | 8.9 | 32 | 161 | -5.9 | 3.1 | 3.1 | 5 | J |
| 15 | 483 | 4.9 | 233 | J | 8.7 | 19 | 165 | -6.7 | 2.3 | 1.8 | 1 | J |
| 16 | 521 | 5.0 | 194 | J | | | | | | | | |
| 17 | 477 | 4.9 | 203 | J | 9.0 | 34 | 141 | -5.2 | 4.8 | 3.8 | 4 | J |
| 18 | 476 | 5.6 | 224 | J | 8.7 | 28 | 142 | -5.4 | 4.5 | 3.3 | 4 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 448 | 6.0 | 182 | J | 8.6 | 18 | 142 | -6.3 | 4.8 | 2.9 | 2 | J |
| 22 | 465 | 6.3 | 186 | J | 8.2 | 8 | 119 | -3.5 | 6.1 | 1.5 | 4 | J |
| 23 | 459 | 6.4 | 180 | J | 8.2 | 11 | 115 | -3.1 | 6.4 | 2.0 | 3 | J |
| 24 | 444 | 6.0 | 152 | J | 8.5 | 34 | 116 | -3.0 | 5.8 | 5.1 | 2 | J |

JUL. 10, 1978 191

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 430 | 5.8 | 111 | J | 8.7 | 16 | 120 | -4.0 | 6.8 | 2.7 | 2 | J |
| 2 | 451 | 6.9 | 156 | J | 8.2 | 5 | 103 | -1.7 | 7.3 | 0.8 | 3 | J |
| 3 | | | | | | | | | | | | |
| 4 | 417 | 8.6 | 193 | J | 7.2 | -26 | 212 | -5.4 | -3.6 | -2.9 | 1 | J |
| 5 | 413 | 7.5 | 135 | J | 7.2 | 35 | 162 | -4.1 | 1.7 | 2.8 | 5 | J |
| 6 | 432 | 7.1 | 153 | J | 7.3 | 19 | 112 | -2.4 | 6.3 | 1.2 | 3 | J |
| 7 | 402 | 6.4 | 88 | J | 7.5 | 12 | 135 | -4.8 | 5.0 | 0.3 | 3 | J |
| 8 | 423 | 6.2 | 97 | J | 7.0 | -16 | 135 | -3.5 | 3.0 | -2.3 | 5 | J |
| 9 | 442 | 6.3 | 104 | J | 6.5 | 17 | 135 | -2.9 | 3.2 | 0.3 | 5 | J |
| 10 | 452 | 4.9 | 86 | J | 5.0 | 52 | 151 | -2.4 | 2.4 | 2.8 | 2 | J |
| 11 | 464 | 4.4 | 75 | J | 5.2 | 24 | 116 | -1.7 | 3.8 | 0.4 | 3 | J |
| 12 | 465 | 4.0 | 69 | J | 5.1 | -18 | 110 | -1.5 | 3.5 | -2.8 | 2 | J |
| 13 | 465 | 4.3 | 76 | J | 5.1 | 10 | 114 | -1.8 | 4.2 | -0.6 | 2 | J |
| 14 | | | | | | | | | | | | |
| 15 | 456 | 4.3 | 68 | J | 5.6 | 19 | 124 | -2.9 | 4.6 | 0.6 | 1 | J |
| 16 | 462 | 4.4 | 72 | J | 5.5 | 0 | 114 | -2.1 | 4.6 | -1.0 | 2 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 455 | 4.6 | 66 | J | 5.2 | 40 | 132 | -2.5 | 2.9 | 3.1 | 2 | J |
| 20 | 454 | 4.7 | 79 | J | 4.8 | 0 | 158 | -3.4 | 1.4 | 0.0 | 3 | J |
| 21 | | | | | | | | | | | | |
| 22 | 458 | 4.6 | 71 | J | 4.7 | -41 | 174 | -3.1 | 0.5 | -2.7 | 2 | J |
| 23 | 461 | 4.6 | 70 | J | 4.7 | 12 | 116 | -1.8 | 3.7 | 1.2 | 2 | J |
| 24 | 456 | 4.5 | 68 | J | 5.0 | 26 | 108 | -1.2 | 3.6 | 2.2 | 2 | J |

JUL. 11, 1978 192

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 465 | 4.5 | 64 | J | 4.9 | -9 | 105 | -1.0 | 3.9 | -0.4 | 3 | J |
| 2 | 478 | 4.5 | 67 | J | 4.9 | 31 | 89 | 0.1 | 3.2 | 2.0 | 3 | J |
| 3 | 469 | 4.9 | 84 | J | 4.7 | -7 | 103 | -0.9 | 4.0 | -0.6 | 2 | J |
| 4 | 455 | 4.7 | 59 | J | 5.1 | 18 | 112 | -1.5 | 3.9 | 1.0 | 3 | J |
| 5 | 455 | 4.7 | 83 | J | 5.0 | 18 | 115 | -1.4 | 3.2 | 0.7 | 3 | J |
| 6 | | | | | 4.7 | -10 | 178 | -4.5 | 0.0 | -0.8 | 1 | J |
| 7 | 429 | 4.4 | 64 | J | 4.7 | -2 | 136 | -2.8 | 2.6 | -0.7 | 3 | J |
| 8 | 443 | 4.6 | 58 | J | 4.7 | 19 | 117 | -1.5 | 3.1 | 0.3 | 3 | J |
| 9 | 411 | 4.0 | 36 | J | 4.3 | 16 | 154 | -2.8 | 1.6 | 0.4 | 3 | J |
| 10 | 415 | 3.8 | 36 | J | 4.5 | 2 | 156 | -3.7 | 1.6 | -0.4 | 2 | J |
| 11 | 411 | 4.1 | 31 | J | 5.0 | 3 | 146 | -3.9 | 2.5 | -0.7 | 2 | J |
| 12 | | | | | 5.0 | -8 | 145 | -4.0 | 2.4 | -1.6 | 1 | J |
| 13 | 403 | 4.4 | 48 | J | 4.8 | 2 | 148 | -4.0 | 2.4 | -0.7 | 1 | J |
| 14 | 402 | 4.2 | 51 | J | 4.9 | 8 | 132 | -3.1 | 3.5 | -0.4 | 1 | J |
| 15 | 410 | 3.9 | 43 | J | 5.0 | 14 | 124 | -2.7 | 4.1 | 0.1 | 1 | J |
| 16 | 388 | 4.0 | 115 | J | 4.7 | -6 | 146 | -3.8 | 2.4 | -1.0 | 1 | J |
| 17 | 377 | 3.7 | 33 | J | 4.7 | 10 | 131 | -2.9 | 3.4 | 0.2 | 1 | J |
| 18 | 371 | 3.9 | 31 | J | 4.8 | 16 | 125 | -2.5 | 3.6 | 0.9 | 2 | J |
| 19 | 362 | 3.9 | 57 | J | 4.5 | 11 | 173 | -4.2 | 0.5 | 0.8 | 1 | J |
| 20 | 368 | 3.1 | 28 | J | 4.1 | 13 | 183 | -3.9 | -0.2 | 0.9 | 1 | J |
| 21 | 359 | 3.5 | 43 | J | 4.5 | 12 | 187 | -4.3 | -0.6 | 0.9 | 1 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 5.0 | 20 | 171 | -4.0 | 0.5 | 1.5 | 2 | J |
| 24 | | | | | | | | | | | | |

JUL. 12, 1978 193

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.0 | 19 | 164 | -4.5 | 1.2 | 1.7 | 1 | J |
| 2 | 370 | 4.4 | 21 | J | 5.1 | 12 | 106 | -1.3 | 4.7 | 1.1 | 1 | J |
| 3 | 341 | 4.3 | 19 | J | 5.1 | -10 | 148 | -4.2 | 2.6 | -1.0 | 1 | J |
| 4 | 342 | 4.3 | 19 | J | 4.9 | -9 | 144 | -3.8 | 2.7 | -1.0 | 1 | J |
| 5 | 351 | 3.8 | 36 | J | 4.2 | -11 | 187 | -4.0 | -0.6 | -0.7 | 1 | J |
| 6 | 350 | 4.3 | 35 | J | 4.5 | -6 | 185 | -4.3 | -0.4 | -0.4 | 1 | J |
| 7 | | | | | 5.3 | -8 | 166 | -5.1 | 1.1 | -1.0 | 1 | J |
| 8 | 344 | 4.1 | 32 | J | 4.8 | -5 | 165 | -4.4 | 1.0 | -0.7 | 1 | J |
| 9 | 338 | 4.6 | 17 | J | 4.9 | -1 | 163 | -4.6 | 1.3 | -0.5 | 1 | J |
| 10 | 338 | 5.1 | 16 | J | 5.0 | 4 | 148 | -4.1 | 2.6 | -0.6 | 1 | J |
| 11 | 341 | 5.2 | 20 | J | 5.0 | 6 | 155 | -4.4 | 2.1 | -0.2 | 1 | J |
| 12 | 341 | 5.2 | 17 | J | 5.0 | -6 | 155 | -4.3 | 1.7 | -1.2 | 1 | J |
| 13 | | | | | | | | | | | | |
| 14 | 352 | 7.7 | 26 | J | | | | | | | | |
| 15 | 348 | 7.7 | 20 | J | 6.1 | 15 | 117 | -2.5 | 5.2 | 0.1 | 2 | J |
| 16 | 339 | 8.3 | 14 | J | 6.7 | 6 | 132 | -4.3 | 4.8 | -0.4 | 2 | J |
| 17 | 341 | 8.7 | 14 | J | 6.8 | -13 | 129 | -4.1 | 4.8 | -2.3 | 1 | J |
| 18 | 357 | 9.5 | 14 | J | 7.3 | 32 | 103 | -1.2 | 5.7 | 2.9 | 3 | J |
| 19 | 364 | 7.9 | 14 | J | 8.0 | 26 | 98 | -1.0 | 7.2 | 3.1 | 1 | J |
| 20 | | | | | | | | | | | | |
| 21 | 369 | 8.6 | 19 | J | 7.4 | 2 | 119 | -3.5 | 6.3 | 0.5 | 2 | J |
| 22 | 373 | 7.6 | 17 | J | 7.2 | 0 | 116 | -3.0 | 6.2 | 0.4 | 2 | J |
| 23 | 373 | 8.6 | 27 | J | 6.6 | 14 | 122 | -3.3 | 5.2 | 1.9 | 1 | J |
| 24 | 362 | 8.0 | 25 | J | 7.5 | -15 | 135 | -5.1 | 5.2 | -1.6 | 2 | J |

JUL. 13, 1978 194

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 400 | 12.5 | 37 | J | 11.3 | -11 | 123 | -5.7 | 8.9 | -1.7 | 4 | J |
| 2 | 410 | 14.7 | 44 | J | 11.3 | -13 | 122 | -5.8 | 9.3 | -2.5 | 2 | J |
| 3 | 416 | 15.8 | 46 | J | 10.1 | 21 | 119 | -3.8 | 7.1 | 2.8 | 5 | J |
| 4 | 411 | 13.3 | 78 | A | 9.9 | -19 | 121 | -4.6 | 7.4 | -3.8 | 3 | J |
| 5 | 416 | 16.3 | 82 | A | | | | | | | | |
| 6 | 442 | 23.0 | 111 | J | 10.9 | 59 | 258 | -1.0 | -3.0 | 8.5 | 6 | J |
| 7 | 439 | 24.4 | 131 | J | 12.4 | 8 | 120 | -5.2 | 9.1 | -0.7 | 7 | J |
| 8 | 433 | 18.4 | 110 | J | 13.4 | -32 | 117 | -5.1 | 7.6 | -9.6 | 2 | J |
| 9 | 440 | 12.5 | 137 | A | | | | | | | | |
| 10 | 421 | 11.2 | 112 | A | | | | | | | | |
| 11 | 414 | 10.6 | 102 | A | 10.3 | 42 | 118 | -3.6 | 8.7 | 4.0 | 2 | J |
| 12 | 412 | 10.4 | 97 | A | 9.4 | 45 | 131 | -4.2 | 6.8 | 4.3 | 3 | J |
| 13 | 418 | 11.6 | 97 | A | 8.5 | 24 | 120 | -3.7 | 7.2 | 0.9 | 2 | J |
| 14 | 416 | 10.5 | 91 | J | 6.7 | -20 | 119 | -2.0 | 2.9 | -2.6 | 5 | J |
| 15 | 412 | 10.3 | 102 | J | 5.9 | 18 | 166 | -4.0 | 1.3 | 1.0 | 4 | J |
| 16 | 426 | 9.7 | 101 | J | 6.9 | 21 | 106 | -1.0 | 3.5 | 0.5 | 6 | J |
| 17 | | | | | | | | | | | | |
| 18 | 387 | 9.4 | 141 | J | 6.9 | -5 | 289 | 1.1 | -3.1 | 0.1 | 5 | J |
| 19 | 406 | 9.1 | 96 | J | 6.3 | 4 | 216 | -4.0 | -2.9 | 0.5 | 4 | J |
| 20 | 392 | 8.8 | 120 | J | 5.7 | -11 | 217 | -3.8 | -2.8 | -0.9 | 3 | J |
| 21 | 390 | 8.5 | 94 | J | 6.9 | -24 | 216 | -5.0 | -3.5 | -2.8 | 2 | J |
| 22 | | | | | 6.9 | -37 | 183 | -5.3 | -0.1 | -4.0 | 2 | J |
| 23 | 377 | 7.5 | 85 | J | 6.7 | -9 | 151 | -5.3 | 3.0 | -0.8 | 3 | J |
| 24 | 463 | 15.0 | 469 | A | 7.4 | -52 | 217 | -3.7 | -1.6 | -5.4 | 3 | J |

JUL. 14, 1978 195

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 473 | 14.8 | 451 | A | 8.8 | -45 | 98 | -0.8 | 5.5 | -5.3 | 4 | J |
| 2 | 475 | 14.1 | 412 | A | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 482 | 13.2 | 421 | A | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 484 | 16.0 | 240 | J | 7.3 | -3 | 215 | -3.2 | -2.2 | 0.4 | 6 | J |
| 8 | 486 | 14.8 | 173 | J | 10.6 | -47 | 96 | -0.5 | 3.3 | -6.8 | 8 | J |
| 9 | 507 | 15.4 | 80 | J | | | | | | | | |
| 10 | 509 | 16.9 | 137 | L | | | | | | | | |
| 11 | 484 | 15.9 | 146 | L | | | | | | | | |
| 12 | 478 | 15.8 | 141 | L | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 485 | 14.6 | 124 | L | | | | | | | | |
| 15 | 497 | 16.8 | 151 | L | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 467 | 9.6 | 146 | L | | | | | | | | |
| 18 | 505 | 9.8 | 106 | J | 11.0 | 0 | 106 | -2.9 | 10.1 | -1.2 | 3 | J |
| 19 | 496 | 13.1 | 99 | J | 10.4 | -14 | 96 | -1.1 | 9.9 | -3.1 | 0 | J |
| 20 | 505 | 13.3 | 97 | J | 10.1 | -32 | 73 | 2.3 | 7.6 | -5.1 | 4 | J |
| 21 | 472 | 22.7 | 104 | L | 15.4 | 51 | 199 | -9.1 | -3.4 | 11.8 | 1 | J |
| 22 | 493 | 8.6 | 26 | J | 15.5 | 44 | 234 | -6.4 | -9.3 | 10.1 | 3 | J |
| 23 | 468 | 9.4 | 42 | L | | | | | | | | |
| 24 | 465 | 14.4 | 46 | J | 13.0 | 54 | 175 | -7.1 | 0.2 | 9.9 | 4 | J |

JUL. 15, 1978 196

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 474 | 18.5 | 39 | J | 12.3 | 51 | 219 | -5.8 | -4.9 | 9.1 | 3 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 453 | 23.2 | 30 | J | 11.5 | 65 | 177 | -4.8 | 2.3 | 10.0 | 3 | J |
| 7 | 455 | 19.2 | 24 | J | 10.1 | 61 | 166 | -4.8 | 3.4 | 8.2 | 1 | J |
| 8 | 452 | 7.9 | 19 | J | 10.3 | 64 | 158 | -4.2 | 4.4 | 8.3 | 1 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 454 | 2.4 | 34 | L | | | | | | | | |
| 13 | 452 | 2.4 | 34 | L | 6.4 | 59 | 167 | -3.1 | 2.5 | 4.6 | 2 | J |
| 14 | 447 | 2.3 | 26 | L | 6.5 | 51 | 168 | -3.9 | 2.4 | 4.4 | 1 | J |
| 15 | 442 | 2.3 | 23 | L | 6.3 | 43 | 179 | -4.5 | 1.3 | 4.0 | 1 | J |
| 16 | | | | | 6.2 | 46 | 182 | -4.3 | 0.9 | 4.4 | 1 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 442 | 2.8 | 31 | L | | | | | | | | |
| 20 | 451 | 2.7 | 31 | L | | | | | | | | |
| 21 | 442 | 3.3 | 23 | J | 6.1 | 36 | 171 | -4.6 | 0.7 | 3.4 | 2 | J |
| 22 | 445 | 3.7 | 26 | J | 6.0 | 48 | 191 | -3.8 | -0.9 | 4.3 | 2 | J |
| 23 | 445 | 3.9 | 27 | J | 5.8 | 62 | 189 | -2.6 | -0.6 | 4.8 | 2 | J |
| 24 | 430 | 3.9 | 38 | J | | | | | | | | |

JUL. 16, 1978 197

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 428 | 4.6 | 23 | L | 5.7 | -41 | 289 | 0.8 | -2.4 | -2.3 | 5 | J |
| 2 | 378 | 4.8 | 73 | A | 6.8 | 31 | 224 | -4.0 | -3.8 | 3.4 | 3 | J |
| 3 | 358 | 4.8 | 79 | A | 5.0 | 24 | 269 | -0.1 | -4.0 | 2.1 | 3 | J |
| 4 | 373 | 6.4 | 40 | A | | | | | | | | |
| 5 | 403 | 7.1 | 18 | J | 4.6 | 61 | 137 | -1.5 | 2.0 | 3.5 | 2 | J |
| 6 | 402 | 7.0 | 16 | J | 4.5 | 60 | 119 | -1.1 | 2.7 | 3.4 | 0 | J |
| 7 | 402 | 7.8 | 16 | J | 5.0 | 53 | 121 | -1.5 | 3.5 | 3.1 | 1 | J |
| 8 | | | | | | | | | | | | |
| 9 | 386 | 6.0 | 16 | L | | | | | | | | |
| 10 | 388 | 6.0 | 19 | L | | | | | | | | |
| 11 | 398 | 6.4 | 19 | L | | | | | | | | |
| 12 | 410 | 7.0 | 24 | L | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 388 | 5.0 | 51 | L | | | | | | | | |
| 15 | 382 | 5.3 | 51 | L | | | | | | | | |
| 16 | 375 | 5.1 | 52 | L | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 374 | 4.4 | 59 | L | | | | | | | | |
| 19 | 353 | 4.4 | 61 | L | | | | | | | | |
| 20 | 368 | 4.4 | 62 | L | | | | | | | | |
| 21 | 363 | 4.2 | 55 | L | | | | | | | | |
| 22 | 366 | 4.4 | 55 | L | | | | | | | | |
| 23 | 373 | 4.9 | 53 | L | | | | | | | | |
| 24 | 388 | 5.1 | 55 | L | | | | | | | | |

JUL. 17, 1978 198

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 5.1 | 57 | L | | | | | | | | |
| 2 | 375 | 5.0 | 63 | L | | | | | | | | |
| 3 | 373 | 4.9 | 52 | L | | | | | | | | |
| 4 | 365 | 4.7 | 53 | L | | | | | | | | |
| 5 | 377 | 5.1 | 51 | L | | | | | | | | |
| 6 | 355 | 6.2 | 50 | L | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 362 | 6.8 | 55 | L | | | | | | | | |
| 9 | 365 | 6.8 | 55 | L | | | | | | | | |
| 10 | 378 | 7.8 | 53 | L | | | | | | | | |
| 11 | 379 | 7.9 | 54 | L | | | | | | | | |
| 12 | 371 | 7.7 | 55 | L | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 357 | 6.7 | 40 | L | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 381 | 8.5 | 84 | L | | | | | | | | |
| 20 | 380 | 8.5 | 81 | L | | | | | | | | |
| 21 | 368 | 9.5 | 66 | L | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 366 | 7.5 | 64 | L | | | | | | | | |
| 24 | 372 | 8.2 | 58 | L | | | | | | | | |

JUL. 18, 1978 199

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 7.9 | 53 | A | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 371 | 9.6 | 47 | L | | | | | | | | |
| 4 | 359 | 8.5 | 46 | L | | | | | | | | |
| 5 | 351 | 10.6 | 21 | L | | | | | | | | |
| 6 | 348 | 12.4 | 19 | A | | | | | | | | |
| 7 | 344 | 12.1 | 21 | L | | | | | | | | |
| 8 | 344 | 12.8 | 22 | L | | | | | | | | |
| 9 | 347 | 13.5 | 23 | L | | | | | | | | |
| 10 | 348 | 12.2 | 24 | L | | | | | | | | |
| 11 | 349 | 13.3 | 27 | L | | | | | | | | |
| 12 | 356 | 17.2 | 22 | L | | | | | | | | |
| 13 | 388 | 35.0 | 50 | L | | | | | | | | |
| 14 | 389 | 27.9 | 62 | L | | | | | | | | |
| 15 | 377 | 18.8 | 70 | L | | | | | | | | |
| 16 | 373 | 17.0 | 51 | L | | | | | | | | |
| 17 | 374 | 15.8 | 48 | L | | | | | | | | |
| 18 | 363 | 20.5 | 66 | L | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 390 | 12.0 | 61 | A | | | | | | | | |
| 21 | 374 | 13.0 | 74 | A | | | | | | | | |
| 22 | 387 | 29.4 | 65 | L | | | | | | | | |
| 23 | 403 | 11.7 | 84 | L | | | | | | | | |
| 24 | 380 | 7.3 | 108 | L | | | | | | | | |

JUL. 19, 1978 200

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 397 | 5.5 | 109 | L | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 407 | 10.2 | 69 | L | | | | | | | | |
| 9 | 406 | 8.9 | 88 | L | | | | | | | | |
| 10 | 410 | 8.1 | 103 | L | | | | | | | | |
| 11 | 421 | 6.9 | 78 | L | | | | | | | | |
| 12 | 417 | 7.2 | 85 | L | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 401 | 8.5 | 40 | L | | | | | | | | |
| 15 | 406 | 5.8 | 30 | L | | | | | | | | |
| 16 | 419 | 2.4 | 92 | L | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 406 | 2.9 | 10 | L | | | | | | | | |
| 20 | 402 | 1.8 | 12 | L | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 397 | 3.0 | 11 | L | | | | | | | | |
| 24 | 396 | 2.9 | 13 | L | | | | | | | | |

JUL. 20, 1978 201

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 404 | 3.4 | 50 | L | | | | | | | | |
| 3 | 401 | 4.0 | 52 | L | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 365 | 5.1 | 48 | L | | | | | | | | |
| 18 | 368 | 4.8 | 45 | L | | | | | | | | |
| 19 | 364 | 5.8 | 26 | J | 5.7 | 12 | 335 | 4.8 | -2.1 | 1.3 | 1 | J |
| 20 | 362 | 5.1 | 30 | J | 5.1 | -20 | 355 | 4.2 | -0.4 | -1.5 | 2 | J |
| 21 | 367 | 5.4 | 24 | J | 4.9 | -24 | 13 | 4.3 | 1.0 | -2.0 | 1 | J |
| 22 | 358 | 4.9 | 32 | J | 5.3 | -21 | 350 | 4.6 | -0.8 | -1.8 | 2 | J |
| 23 | 361 | 4.0 | 34 | J | 5.9 | -8 | 331 | 4.6 | -2.5 | -0.8 | 2 | J |
| 24 | 368 | 3.8 | 41 | J | 6.5 | -10 | 311 | 3.9 | -4.5 | -1.1 | 2 | J |

JUL. 21, 1978 202

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 371 | 3.6 | 37 | J | 6.5 | -13 | 311 | 3.8 | -4.4 | -1.3 | 2 | J |
| 2 | 376 | 4.0 | 39 | J | 6.6 | -10 | 301 | 3.2 | -5.4 | -0.8 | 1 | J |
| 3 | 366 | 3.3 | 57 | L | | | | | | | | |
| 4 | 366 | 4.1 | 35 | J | 6.5 | -9 | 319 | 4.2 | -3.8 | -0.4 | 2 | J |
| 5 | 366 | 4.2 | 39 | J | 6.8 | 0 | 317 | 4.8 | -4.4 | 0.8 | 2 | J |
| 6 | 365 | 4.3 | 35 | J | 6.4 | 7 | 317 | 4.5 | -3.9 | 1.7 | 1 | J |
| 7 | 380 | 6.0 | 55 | J | 5.3 | 8 | 30 | 3.6 | 2.2 | -0.0 | 3 | J |
| 8 | 394 | 6.2 | 34 | J | 5.2 | -9 | 86 | 0.3 | 4.1 | -2.2 | 3 | J |
| 9 | 390 | 6.2 | 20 | J | 6.1 | -10 | 88 | 0.2 | 5.2 | -3.2 | 1 | J |
| 10 | 386 | 6.2 | 23 | J | 5.9 | -12 | 84 | 0.6 | 4.6 | -3.3 | 1 | J |
| 11 | 386 | 6.5 | 24 | J | 6.0 | 1 | 88 | 0.2 | 5.4 | -2.3 | 1 | J |
| 12 | 384 | 6.6 | 22 | J | 6.3 | 8 | 92 | -0.2 | 6.1 | -1.7 | 1 | J |
| 13 | 356 | 6.8 | 39 | J | 6.2 | 20 | 33 | 4.3 | 3.3 | 0.6 | 3 | J |
| 14 | 336 | 6.1 | 16 | J | 6.2 | 13 | 355 | 5.9 | 0.0 | 1.5 | 1 | J |
| 15 | 357 | 6.3 | 44 | J | 6.2 | 34 | 355 | 4.8 | 0.7 | 3.2 | 2 | J |
| 16 | 360 | 6.9 | 43 | J | 5.8 | 37 | 333 | 3.9 | -1.0 | 3.7 | 2 | J |
| 17 | 357 | 7.2 | 43 | J | 5.6 | 31 | 3 | 3.8 | 0.7 | 2.2 | 3 | J |
| 18 | 362 | 6.8 | 38 | J | 5.6 | 24 | 49 | 3.2 | 4.0 | 1.5 | 2 | J |
| 19 | 357 | 7.3 | 40 | J | 5.9 | 38 | 31 | 3.4 | 2.4 | 2.9 | 3 | J |
| 20 | 359 | 8.5 | 44 | J | 6.0 | 20 | 44 | 3.9 | 3.9 | 1.8 | 2 | J |
| 21 | 367 | 8.7 | 48 | J | 6.1 | 28 | 42 | 3.6 | 3.3 | 2.5 | 3 | J |
| 22 | 352 | 9.0 | 109 | J | 6.3 | 20 | 1 | 5.8 | 0.1 | 2.1 | 1 | J |
| 23 | 355 | 9.3 | 80 | J | 5.5 | -10 | 355 | 4.9 | -0.4 | -0.9 | 2 | J |
| 24 | 360 | 9.6 | 71 | L | 4.3 | 38 | 137 | -1.1 | 1.0 | 1.2 | 4 | J |

JUL. 22, 1978 203

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 9.8 | 34 | J | 5.3 | -7 | 111 | -0.9 | 2.4 | -0.4 | 4 | J |
| 2 | 390 | 10.5 | 45 | J | 5.7 | -15 | 111 | -1.8 | 4.5 | -1.6 | 2 | J |
| 3 | 362 | 10.6 | 51 | J | 5.8 | -22 | 316 | 3.8 | -3.9 | -1.8 | 1 | J |
| 4 | 359 | 11.0 | 44 | J | 6.4 | -42 | 33 | 3.5 | 1.7 | -4.0 | 3 | J |
| 5 | 364 | 11.2 | 37 | J | 6.4 | -23 | 76 | 1.4 | 5.0 | -3.5 | 2 | J |
| 6 | 367 | 11.2 | 51 | J | 5.9 | -20 | 76 | 0.7 | 2.3 | -1.6 | 5 | J |
| 7 | | | | | 6.3 | -39 | 272 | 0.2 | -5.8 | -2.4 | 0 | J |
| 8 | 367 | 6.8 | 26 | J | 7.0 | -16 | 279 | 1.0 | -6.7 | 0.4 | 2 | J |
| 9 | 356 | 5.9 | 19 | J | 7.6 | -2 | 289 | 2.4 | -6.7 | 2.4 | 1 | J |
| 10 | 360 | 5.4 | 14 | J | 8.0 | -14 | 282 | 1.6 | -7.6 | 1.2 | 1 | J |
| 11 | 354 | 5.3 | 15 | J | 7.7 | -28 | 293 | 2.6 | -7.1 | -0.7 | 1 | J |
| 12 | 359 | 6.8 | 21 | J | 7.3 | -7 | 280 | 1.1 | -6.0 | 1.9 | 4 | J |
| 13 | 362 | 7.1 | 25 | J | 7.2 | 31 | 277 | 0.7 | -4.0 | 5.6 | 2 | J |
| 14 | 359 | 5.2 | 14 | J | 7.7 | 10 | 276 | 0.8 | -6.5 | 4.0 | 1 | J |
| 15 | 354 | 5.9 | 21 | J | 7.7 | -5 | 270 | -0.0 | -7.4 | 1.9 | 1 | J |
| 16 | 357 | 5.7 | 18 | J | 7.7 | -20 | 262 | -1.0 | -7.5 | -0.5 | 1 | J |
| 17 | 359 | 6.2 | 16 | J | 7.7 | -18 | 255 | -1.8 | -7.2 | -0.7 | 1 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | 8.4 | -27 | 266 | -0.5 | -7.8 | -3.0 | 0 | J |
| 20 | 359 | 8.0 | 24 | J | 8.8 | -13 | 276 | 0.9 | -8.4 | -1.4 | 2 | J |
| 21 | 363 | 8.2 | 22 | J | 9.1 | 6 | 279 | 1.4 | -8.8 | 1.2 | 1 | J |
| 22 | 359 | 8.1 | 29 | J | 8.8 | 14 | 279 | 1.3 | -8.1 | 2.1 | 3 | J |
| 23 | 359 | 8.3 | 29 | J | 8.5 | -1 | 275 | 0.7 | -8.3 | -0.1 | 2 | J |
| 24 | 359 | 9.5 | 36 | J | 8.1 | 7 | 273 | 0.4 | -7.7 | 1.0 | 2 | J |

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07/23/78 – 07/30/78

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HR    VEL  DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000   SC   MAGN LAT LON                     SC                   1000   SC   MAGN LAT LON                     SC

                                JUL. 23, 1978              204                                 JUL. 24, 1978              205

 1    358  8.7  42  J     7.3   6 278   0.9  -6.7   0.9  2  J      340  9.5  24  J     6.2 -17 289   1.7  -4.8  -1.4  3  J
 2    359  8.5  41  J     6.9  -2 262  -0.5  -3.3   0.1  6  J      347  9.4  34  J     5.7 -27 275   0.4  -4.6  -2.0  3  J
 3    357  7.7  44  J     6.4 -49  68   1.2   2.5  -3.9  4  J      336  8.9  29  J     5.5 -17 300   2.5  -4.4  -1.0  2  J
 4    357  7.1  57  J     6.1 -23 284   1.2  -5.0  -1.3  3  J      334  8.7  30  J     5.6   2 310   3.4  -4.0   0.8  2  J
 5    344  6.4  44  J     6.0 -23 292   1.9  -5.0  -1.2  2  J      337  8.3  28  J     5.4  15 305   2.9  -3.8   2.2  1  J
 6                       6.1 -15 279   0.9  -5.8  -0.1  1  J                          6.0  -6 293   2.3  -5.4   0.8  1  J
 7                                                                                    5.9  -4 292   2.2  -5.3   1.3  1  J
 8
 9                                                                 337  7.8  18  J     5.3 -21 304   2.6  -4.2  -0.2  2  J
10    331  4.5  27  J     6.3 -12 305   3.4  -4.9   0.8  2  J      332  7.1  25  J     5.5 -16 310   3.4  -4.3   0.3  1  J
11    337  4.8  39  J     6.7 -18 289   2.0  -6.1   0.6  2  J                          5.2 -18 304   2.7  -4.3   0.3  1  J
12    334  5.1  37  J     7.3  21 307   3.8  -3.5   4.3  3  J
13    331  5.8  36  J     6.8  47 321   3.5  -0.7   5.6  1  J
14    334  5.5  35  J     6.4  50 327   3.3  -0.2   5.2  2  J
15    335  5.4  39  J     6.3   7 288   1.8  -5.0   2.6  2  J
16    342  5.7  47  J     6.3   1 287   1.7  -5.4   1.7  2  J
17    349  8.4  40  J     7.9  26 307   4.3  -4.7   4.7  0  J
18    361 10.7  32  J     8.0  -6 288   2.3  -7.2   0.5  3  J      340  8.4  19  J     5.4 -28 245  -2.0  -4.6  -1.7  1  J
19    377 12.9  25  J     7.6 -30 275   0.6  -6.7  -2.9  2  J      342  8.1  24  J     5.7 -23 255  -1.3  -5.2  -1.6  1  J
20    366 12.0  25  J     8.5 -51 277   0.6  -5.6  -6.1  1  J      345  8.4  21  J     5.9 -24 266  -0.4  -5.5  -2.0  1  J
21    360 10.4  35  J     8.6 -44 274   0.4  -6.2  -5.6  2  J      344  8.4  21  J     5.7 -26 267  -0.3  -5.1  -2.2  1  J
22
23                                                                 337  5.6  18  J     5.9 -44 263  -0.5  -4.2  -4.0  1  J
24    343  9.3  32  J     6.8 -28 281   0.9  -4.9  -2.6  4  J      341  6.1  25  J     5.5 -63 272   0.1  -2.5  -4.7  1  J

                                JUL. 25, 1978              206                                 JUL. 26, 1978              207

 1                       5.5  -9 266  -0.4  -5.4  -0.6  0  J      318  5.8  18  J     6.5 -36 308   3.0  -4.1  -3.4  2  J
 2                                                                 317  5.9  17  J
 3    327  9.6  49  A
 4    337  7.8  64  A     5.0 -20 297   1.8  -3.7  -0.9  3  J
 5    341  6.3  33  J     5.4 -20 299   2.4  -4.6  -0.8  2  J      323  5.6  17  J
 6    337  5.0  19  J     6.1 -22 304   3.1  -5.0  -0.9  2  J      313  4.8  17  J     7.5 -20 306   3.6  -5.4  -0.8  4  J
 7                                                                 312  6.4  18  J     7.1  16 299   3.3  -5.0   3.7  1  J
 8                                                                 311  6.7  16  J     7.0  29 288   1.9  -4.2   5.3  1  J
 9
10
11
12    347  4.6  32  J     7.0 -40 274   0.4  -6.6  -1.7  2  J                          7.1 -26 295   2.7  -6.5  -0.3  1  J
13
14                                                                                    7.2 -17 295   2.9  -6.5   0.5  1  J
15    326  4.2  26  J     7.5  13 310   4.6  -4.6   3.5  1  J
16    328  4.5  48  J     7.2  25 316   4.7  -3.4   4.3  0  J
17
18
19    318 12.3  36  A                                                                 4.9  34 159  -3.6   1.7   2.4  1  J
20    334  9.5  19  A                                                                 5.2  76 279   0.1  -0.6   3.7  4  J
21
22                                                                 320 13.1  10  L
23                                                                 316 10.4  18  L     4.8  -6 298   2.2  -4.1  -0.4  1  J
24                                                                                    4.7   8 304   2.5  -3.7   0.7  2  J

                                JUL. 27, 1978              208                                 JUL. 28, 1978              209

 1    315 11.1  11  J     5.6   6 310   3.3  -3.9   0.8  2  J      309 15.7  38  A
 2    314 11.8  12  J     5.5   5 313   3.7  -3.9   0.8  1  J      313 17.0  32  A
 3                       5.9   6 318   4.3  -3.8   1.1  1  J      311 19.5  26  A
 4                                                                 312 18.8  22  A
 5    315 10.3  12  J     6.1  26 320   4.2  -2.8   3.4  0  J      313 19.3  24  A
 6    316 11.0  13  J     6.0  32 332   4.5  -1.4   3.7  0  J      324 20.5  41  A
 7    318 10.2  14  J     6.0  36 327   4.1  -1.4   4.2  0  J      330 18.5  56  L
 8    318 10.1  12  J     6.4  37 328   4.3  -1.1   4.5  1  J      328 25.5  39  L
 9    315  7.6  12  J     6.4  37 320   3.9  -1.5   4.8  1  J      325 22.4  38  L
10    308  9.2  25  J     3.1  66  90   0.0   1.7   1.4  2  J      317 19.9  34  J     6.0 -33 232  -1.2  -2.0  -0.5  5  J
11    310  9.3  32  J     4.4  -9 137  -3.0   2.3  -1.8  2  J      322 16.0  31  J     6.4   0  75   1.6   5.5  -2.7  1  J
12    308 10.6  48  L                                              319 24.3  24  J     4.1 -42 172  -2.9  -0.8  -2.6  1  J
13    309 11.4  43  L     4.6  67  66   0.7   3.3   3.1  0  J      313 21.9  25  J     5.5 -43 212  -3.2  -3.3  -2.3  2  J
14    309 10.4  47  L     2.7  13 171  -2.5   0.6   0.4  1  J      310 20.6  23  J     4.4  -4 239  -2.0  -3.2   1.1  2  J
15    303  8.7  45  L     3.9  24 203  -3.0  -0.7   1.8  2  J      311 19.9  31  L     4.0  60 317   1.3  -0.0   3.3  2  J
16    307  8.7  44  L     3.9  48 213  -2.1  -0.4   3.0  1  J      296 16.8  24  J     4.6  64  60   0.8   2.4   2.8  3  J
17    305  7.4  51  L
18    304  8.9  53  L
19    300  8.7  53  L                                              297 15.3  24  J
20    305  8.3  51  L     4.6  44 159  -2.9   1.4   2.9  2  J
21    303  6.9  41  L     4.6  52 164  -2.2   0.8   2.9  3  J
22    302  7.7  37  L
23    305  0.0   0  H                                              303  0.0   0  H
24    305  0.0   0  H                                              297 15.3  29  L

                                JUL. 29, 1978              210                                 JUL. 30, 1978              211

 1    294 16.7  26  L                                              300 20.7  13  L
 2    295 15.3  29  L                                              302 11.3  21  L
 3    295 15.3  25  L                                              310 10.1  32  L
 4    299  0.0   0  H                                              310  7.6  47  L
 5    291 14.8  31  L                                              308  7.2  50  L
 6    293 15.6  32  L                                              309  7.3  48  L
 7    294 14.4  30  L                                              303  6.7  50  L
 8    284 13.4  29  L                                              309  6.6  59  L
 9    290 13.8  25  L                                              309  6.0  55  L
10    289 13.1  25  L                                              312  5.9  50  L
11    284 13.2  25  L                                              314  6.0  45  L
12    286  9.5  26  L                                              311  5.9  48  L
13    291 13.7  17  L                                              308  5.7  41  L
14    297 14.5  12  L
15    297 14.4  12  L                                              310  5.9  39  L
16    300 16.1  16  L                                              312  6.1  39  L
17    301 18.2  16  L                                              310  6.0  32  L
18    296 18.2  18  L                                              308  6.5  30  L
19    298 18.2  18  L                                              307  7.4  21  L
20
21
22    298 19.0  22  L
23    300 19.0  20  L                                              298  5.6  20  L
24    295 19.5  15  L                                              297  6.1  21  L
```

## 07/31/78 – 08/07/78

```
 HR      VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF     VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                  1000  SC   MAGN LAT LON                     SC                1000  SC   MAGN LAT LON                     SC

                           JUL. 31, 1978                 212                               AUG. 1, 1978                 213

  1
  2                                                                   273 16.2  21  A
  3     296  6.7  24  L                                           276 16.5  15  A
  4     280  9.7  20  L                                           280 14.2  17  A
  5     278  9.5  16  L                                           280 14.9  19  A
  6     276  9.7  16  L                                           278 14.7  20  A
  7                                                                   274 14.8  27  A
  8                                                                   279 15.5  26  A
  9                                                                   278 16.3  29  A
 10                                                                   277 16.5  30  A
 11                                                                   275 16.3  29  A
 12                                                                   272 16.4  27  A
 13                                                                   269 16.8  25  A
 14                                                                   270 16.6  23  A
 15                                                                   270 17.3  19  A
 16                                                                   270 18.6  17  A
 17                                                                   277 19.3  14  A
 18                                                                   279 20.5  15  A
 19                                                                   275 18.4  25  A
 20                                                                   272 21.4  22  A
 21                                                                   272 19.9  27  A
 22                                                                   276 17.0  33  A
 23                                                                   275 17.2  33  A
 24                                                                   277 17.2  34  A

                           AUG. 2, 1978                  214                               AUG. 3, 1978                 215

  1     285 16.3  27  A                                           317 17.4  45  J    9.9  -5 303   5.3  -8.2  -0.1  1  J
  2     270 17.1  49  A                                           322 22.0  34  J    9.5   1 302   4.8  -7.6   1.1  2  J
  3     275 17.3  43  A                                           321 29.3  32  J    9.4 -11 305   5.0  -7.3  -0.5  3  J
  4     284 10.0  31  L                                           326 43.4  28  J    6.0 -17 133  -2.7   2.6  -1.8  4  J
  5     279 10.3  39  L                                           338 31.9  29  J   10.7   3 125  -5.9   8.3  -1.7  4  J
  6     261  9.0  50  L                                           351 19.7  85  J   12.8  13 123  -6.6  10.5  -0.5  3  J
  7     257  9.6  48  J    7.1   9 320   5.1  -3.7   2.5  1  J    355 18.8  78  J
  8     257  9.7  47  J    7.1  10 317   4.9  -3.7   2.9  2  J    353 20.2  88  J   12.2   9 127  -7.1   9.4  -2.0  3  J
  9     263  9.8  44  J    7.0  12 303   3.2  -4.0   3.3  3  J    349 22.3  94  J   10.8  12 130  -6.5   8.0  -1.4  3  J
 10     292 10.3  37  J    6.5  20 223  -4.4  -2.7   3.8  1  J    352 23.0 107  J    7.6  46 160  -3.3   2.7   2.7  6  J
 11     284 10.0  34  J    6.4  19 245  -2.5  -3.8   4.2  2  J    365 24.0 172  J    7.7  -9 154  -3.6   1.2  -1.4  7  J
 12     275 10.4  35  J    5.9   6 266  -0.4  -4.8   3.2  1  J    365 20.1 107  J   11.5 -19 131  -7.0   5.4  -7.0  2  J
 13     270 10.3  42  J    6.2  17 286   1.6  -4.1   4.0  2  J    365 17.3  83  J   13.0  16 154 -10.6   6.2   0.7  4  J
 14     283  9.9  47  J    6.9   1 291   2.4  -5.6   2.8  2  J    391 17.9 107  J   12.2  14 142  -8.6   7.3  -0.4  4  J
 15     286 10.0  32  J    7.0  20 267  -0.3  -4.8   4.4  3  J    398 15.6  98  J   11.2  16 172  -9.8   2.4   2.1  4  J
 16     281 10.0  32  J    7.1  11 268  -0.2  -6.0   3.6  1  J    412 15.8 123  J   11.1  -4 158  -9.1   3.2  -1.9  5  J
 17     280 11.0  35  J    6.8  -3 275   0.6  -6.2   1.5  2  J    454 16.7 215  J    9.4   1 114  -3.3   7.1  -2.0  5  J
 18     281 12.8  26  J    6.7  29 267  -0.3  -4.4   4.0  3  J    465 17.5 241  J    9.8 -42  98  -1.0   5.2  -7.6  3  J
 19     307 12.1  33  J    8.2   7 296   2.8  -5.6   1.8  5  J    436 15.2 204  J    9.6  36 156  -5.9   3.4   4.2  5  J
 20     316 10.3  50  J    9.0 -27 322   6.2  -5.4  -3.4  1  J    438 13.9 160  J    9.3  24 128  -4.2   5.7   2.3  6  J
 21     314 10.9  73  J    8.8   2 314   4.9  -5.0   0.7  5  J    461 13.6 161  J    8.7   5 127  -3.5   4.7   0.1  6  J
 22     317 12.1  64  J    8.8  -9 307   4.3  -5.8  -0.7  5  J    453 12.9 148  J    8.8   7 127  -3.5   4.6   0.3  7  J
 23                                                                   442 13.7 153  J    9.4 -23 140  -5.9   4.7  -3.6  4  J
 24     322 16.0  51  J    8.8  13 292   3.0  -7.3   2.4  3  J    431 10.1 157  A    9.8 -11 152  -7.3   3.7  -1.9  5  J

                           AUG. 4, 1978                  216                               AUG. 5, 1978                 217

  1     436 13.0 156  L   10.5  -5 323   6.2  -4.7  -0.2  7  J    439  7.5  97  J    8.2  21 153  -6.0   3.3   2.3  4  J
  2     433 13.2 175  L    9.2  20 133  -4.6   5.2   1.8  6  J    435  7.4 102  J    8.3   2 152  -7.0   3.7  -0.2  3  J
  3     470 12.6 172  J    9.4 -65 114  -1.4   1.9  -8.0  4  J    451  7.6 104  J    7.8 -18 146  -5.4   3.2  -2.7  4  J
  4     455 12.5 167  J    9.9 -27 118  -2.8   4.5  -4.1  7  J    458  7.3  68  J    8.2  -7 141  -5.7   4.3  -1.9  3  J
  5     432 11.6 123  J    9.6  17 134  -4.9   5.5   0.7  6  J    463  6.0  37  J    6.3  -7 152  -4.2   2.0  -1.2  4  J
  6     440 13.0 190  J    9.3  12 137  -5.0   4.9  -0.1  6  J    469  6.9  87  J    6.6  -2 123  -3.0   4.4  -1.7  4  J
  7     422 10.9 145  J    8.6 -15 184  -5.4  -0.9  -1.2  6  J    483  6.2 107  J    7.9 -22 147  -5.7   2.4  -3.9  3  J
  8     441 10.5 222  A    9.3  63 204  -3.0   1.4   6.5  6  J    510  6.5  88  J    8.1 -39 154  -5.0   0.4  -5.1  4  J
  9     453 13.2 204  J    9.6  28 145  -4.6   4.2   1.3  7  J    494  6.6  98  J    8.4  15 138  -5.0   4.9  -0.4  4  J
 10     459 12.8 193  J   10.2 -36 110  -2.7   3.9  -8.4  3  J    507  6.9  80  J    8.5  18 124  -4.0   6.3  -0.7  4  J
 11     452 11.2 178  J    9.6 -20 121  -3.7   4.2  -5.2  6  J    494  7.4  94  J    8.4 -16 132  -4.6   3.5  -4.1  4  J
 12     472 11.1 151  J    8.4  13 105  -1.8   6.6  -1.7  4  J    496  7.7  98  J    8.5  -1 132  -4.9   4.7  -2.7  4  J
 13     481 10.8 148  J    8.0  29  89   0.1   6.4   0.2  5  J    493  8.1  99  J    8.6   1 132  -5.2   5.1  -2.5  4  J
 14     480  9.6 135  J    6.7  28 113  -1.3   3.5   0.3  6  J    494  9.1 120  J    7.7  -3 148  -5.1   2.7  -1.7  5  J
 15     471  8.8 122  J    7.6  26 120  -2.7   5.4   0.6  4  J    497  8.7 145  J    7.0  -8 151  -5.1   2.3  -1.9  4  J
 16     446  8.4  97  J    8.0  12 145  -5.9   4.4  -0.0  3  J    529  5.8 125  J    8.2 -12 142  -5.9   3.8  -3.1  3  J
 17     469  9.1 102  J    8.1  32 122  -3.2   6.0   2.1  4  J    524  5.8 111  J    8.2  -6 150  -6.9   3.5  -2.0  2  J
 18     467  9.0  97  J    8.2   8 115  -3.2   7.0  -0.6  3  J    520  6.0 153  J    8.0   3 145  -6.5   4.5  -0.7  2  J
 19     459  8.5  98  J    8.0  -2 118  -3.5   6.4  -1.5  3  J    516  6.9 136  J    7.6 -11 168  -6.0   1.0  -1.4  4  J
 20     464  8.4  92  J    7.8  22 114  -2.8   6.5   1.9  2  J    515  6.4 122  J    7.9 -31 147  -5.1   2.8  -4.1  3  J
 21     443  8.2  91  J    7.6  26 133  -4.5   5.2   2.7  2  J    532  6.1 165  J    7.9 -29 116  -2.6   5.0  -3.9  4  J
 22     447  8.9  96  J    7.8  28 132  -4.0   4.7   2.8  4  J    513  6.5 133  J    7.7  16 128  -4.2   5.5   1.5  3  J
 23     453  8.7  88  J    8.0  39 130  -3.2   4.2   3.8  4  J    509  6.3 157  J    6.9  54 163  -3.5   1.5   4.9  3  J
 24     440  7.8  86  J    8.3  22 135  -5.0   5.3   2.5  3  J    516  6.1 137  J    6.4  23 141  -3.8   3.2   1.8  4  J

                           AUG. 6, 1978                  218                               AUG. 7, 1978                 219

  1     523  6.0 185  J    6.0  68 209  -1.5  -0.4   4.2  4  J    510  3.5  67  J    4.1 -11 180  -3.1  -0.1  -0.6  3  J
  2     530  7.7 144  J    6.0  79 255  -0.2  -0.2   5.0  3  J    505  3.2  54  J    4.2  15 180  -3.4   0.1   0.9  2  J
  3                        6.0 -25 146  -3.6   2.0  -2.4  4  J    493  3.3  75  J    4.0  -3 197  -3.6  -1.1   0.0  1  J
  4                        5.8 -19 133  -3.7   3.4  -2.7  2  J
  5     551  5.0 145  J    4.8 -63 186  -1.7  -1.1  -3.1  3  J
  6     543  4.6 138  J    5.1 -56 158  -2.5  -0.3  -4.2  1  J
  7     530  4.8 155  J    5.5 -39 135  -2.9   1.4  -4.1  2  J    513  3.4  56  J    3.8  13 119  -1.4   2.5  -0.3  2  J
  8     546  4.8 180  J    3.9  47 215  -1.4  -0.1   2.1  3  J    495  3.3  62  J    3.8  -5 104  -0.8   2.7  -1.5  2  J
  9     556  4.2 124  J    5.1  59 218  -1.9   0.4   4.2  2  J    501  3.2  62  J    3.9  12 109  -1.0   2.9  -0.7  2  J
 10     542  3.9 121  J    5.2  51 166  -2.6   2.1   2.7  3  J    491  3.5  91  J    3.8  36 106  -0.6   2.5   0.4  3  J
 11     562  3.7 120  J    4.2  45 124  -1.1   2.5   1.0  3  J    508  3.0  58  J    4.0  57 101  -0.3   2.7   1.5  3  J
 12     527  4.3 221  J    4.3  10 160  -3.7   1.5  -0.0  1  J    487  3.2  57  J    4.0  44 115  -1.1   3.4   1.1  2  J
 13     550  3.0 114  J    4.7 -51 176  -2.6  -1.3  -2.9  2  J    476  3.3  62  J    3.8   5 116  -1.6   3.0  -1.2  1  J
 14     555  3.3 136  J    5.0 -41 167  -2.9  -0.5  -2.7  3  J    485  3.3  55  J    3.5  10 160  -2.0   0.8   0.0  3  J
 15     554  3.2 136  J    4.7 -49 146  -2.3   0.1  -3.6  2  J    465  3.4  53  J    3.8  13 146  -2.3   1.6  -0.0  2  J
 16     560  3.4 132  J    4.5 -42 145  -2.4   0.6  -3.1  2  J    464  3.6  46  J    3.8  13 123  -1.9   3.0  -0.3  1  J
 17     541  3.4 138  J    4.3   6 153  -3.2   1.7  -0.1  2  J    460  3.2  41  J    3.8  36 145  -2.3   2.2   1.5  1  J
 18     543  3.2 126  J    4.2  12 153  -3.3   1.8   0.3  2  J    450  3.1  57  J    4.0  10 157  -3.3   1.5   0.3  2  J
 19     562  3.2  88  J    4.5  20 103  -0.7   3.1   0.5  3  J    448  3.3  76  J    4.0  -7 157  -3.5   1.4  -0.7  1  J
 20     549  3.1 103  J    4.1  31 129  -1.9   2.6   1.4  2  J                       4.1 -31 164  -3.4   0.6  -2.2  0  J
 21     578  3.0  87  J    4.1  50  70   0.9   2.7   2.7  1  J                       3.8 -41 255  -0.7  -2.9  -2.0  1  J
 22     521  2.5 121  A                                                              3.5 -17 146  -2.6   1.7  -1.1  1  J
 23     524  2.5 127  A                                                              4.4 -10 146  -3.5   2.3  -1.0  1  J
 24     521  3.2  81  J    4.2  -6  88   0.1   4.1  -0.8  0  J    423  2.7  43  J    4.1  -6 160  -3.7   1.3  -0.5  1  J
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OF POOR QUALITY

08/08/78 – 08/15/78

AUG. 8, 1978 220

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 436 | 2.7 | 40 | J | 3.9 | -14 | 127 | -2.2 | 2.8 | -1.3 | 1 | J |
| 2 | 422 | 2.6 | 36 | J | 3.7 | -16 | 124 | -1.9 | 2.6 | -1.4 | 1 | J |
| 3 | 415 | 3.5 | 37 | J | 2.6 | 7 | 126 | -1.5 | 2.0 | -0.1 | 1 | J |
| 4 | 410 | 4.0 | 35 | J | 2.6 | 23 | 104 | -0.5 | 2.2 | 0.4 | 1 | J |
| 5 | 408 | 4.4 | 34 | J | 3.1 | 28 | 96 | -0.2 | 2.3 | 0.5 | 2 | J |
| 6 | 414 | 4.4 | 32 | J | 3.3 | 25 | 75 | 0.7 | 2.9 | 0.3 | 1 | J |
| 7 | 411 | 4.5 | 27 | J | 3.7 | 20 | 89 | 0.1 | 3.4 | -0.1 | 2 | J |
| 8 | 397 | 3.8 | 51 | A | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 389 | 4.2 | 40 | A | | | | | | | | |
| 12 | 388 | 5.0 | 47 | A | 4.2 | -28 | 125 | -2.1 | 1.7 | -3.1 | 1 | J |
| 13 | 377 | 6.7 | 54 | A | 4.3 | -39 | 192 | -2.7 | -1.5 | -1.7 | 3 | J |
| 14 | 393 | 7.6 | 41 | J | 4.6 | 24 | 87 | 0.2 | 3.7 | -0.2 | 3 | J |
| 15 | 373 | 7.2 | 38 | J | 4.4 | 15 | 148 | -2.9 | 2.0 | 0.1 | 3 | J |
| 16 | 391 | 8.5 | 47 | J | 4.5 | 3 | 124 | -2.2 | 3.2 | -1.0 | 2 | J |
| 17 | 390 | 8.5 | 43 | J | 4.6 | -35 | 106 | -0.9 | 2.3 | -3.2 | 2 | J |
| 18 | 344 | 0.0 | 0 | H | 5.8 | 23 | 73 | 1.4 | 4.9 | 0.8 | 3 | J |
| 19 | 402 | 8.1 | 30 | J | 5.4 | 14 | 50 | 3.2 | 4.0 | 0.4 | 2 | J |
| 20 | 400 | 9.1 | 39 | J | 4.9 | 1 | 59 | 2.4 | 4.0 | -0.6 | 1 | J |
| 21 | 383 | 8.0 | 34 | J | 5.0 | 18 | 82 | 0.6 | 4.3 | 0.8 | 2 | J |
| 22 | 394 | 7.7 | 39 | J | 5.5 | 22 | 54 | 2.8 | 4.1 | 1.5 | 2 | J |
| 23 | 387 | 7.7 | 32 | J | 5.6 | 13 | 72 | 1.6 | 5.0 | 0.7 | 2 | J |
| 24 | 389 | 8.3 | 39 | J | 4.0 | 9 | 76 | 0.9 | 3.5 | 0.2 | 2 | J |

AUG. 9, 1978 221

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 9.4 | 54 | J | 3.8 | 8 | 74 | 0.8 | 2.7 | 0.1 | 3 | J |
| 2 | 390 | 10.7 | 72 | J | 4.4 | 11 | 66 | 1.6 | 3.7 | 0.2 | 2 | J |
| 3 | 386 | 8.0 | 30 | J | 6.4 | 25 | 46 | 3.8 | 4.4 | 1.8 | 2 | J |
| 4 | 384 | 9.1 | 31 | J | 5.7 | 15 | 79 | 0.8 | 4.5 | 0.1 | 3 | J |
| 5 | 372 | 8.6 | 44 | J | 5.2 | -25 | 155 | -3.9 | 1.2 | -2.4 | 2 | J |
| 6 | 366 | 7.9 | 50 | J | 5.7 | -34 | 183 | -4.6 | -1.3 | -2.8 | 2 | J |
| 7 | 358 | 7.4 | 57 | J | 5.0 | 3 | 128 | -2.9 | 3.5 | -1.2 | 2 | J |
| 8 | 375 | 7.5 | 33 | J | 5.2 | 11 | 105 | -1.2 | 4.3 | -1.1 | 2 | J |
| 9 | 375 | 7.3 | 36 | J | 5.3 | 6 | 113 | -1.7 | 3.7 | -1.4 | 3 | J |
| 10 | 378 | 6.5 | 29 | J | 5.5 | 8 | 124 | -2.7 | 3.9 | -1.3 | 2 | J |
| 11 | 370 | 6.2 | 34 | J | 5.7 | -9 | 153 | -4.9 | 1.8 | -2.0 | 1 | J |
| 12 | 359 | 5.6 | 38 | J | 5.4 | -2 | 130 | -2.8 | 2.9 | -1.8 | 3 | J |
| 13 | 352 | 5.1 | 20 | J | 6.1 | 26 | 72 | 1.6 | 5.6 | -0.1 | 2 | J |
| 14 | 352 | 4.7 | 23 | J | 5.8 | 16 | 77 | 1.2 | 5.4 | -1.0 | 1 | J |
| 15 | 335 | 6.0 | 13 | J | 5.5 | 19 | 96 | -0.5 | 5.3 | -0.5 | 2 | J |
| 16 | 360 | 5.2 | 25 | J | 5.8 | 20 | 86 | 0.4 | 5.6 | -0.2 | 1 | J |
| 17 | 349 | 5.3 | 17 | J | 5.8 | 6 | 93 | -0.3 | 5.6 | -1.2 | 1 | J |
| 18 | 354 | 5.5 | 17 | J | 5.8 | 10 | 89 | 0.1 | 5.8 | -0.5 | 1 | J |
| 19 | 355 | 4.5 | 24 | L | | | | | | | | |
| 20 | 356 | 5.4 | 22 | L | 6.1 | 8 | 100 | -1.0 | 6.0 | -0.1 | 0 | J |
| 21 | 348 | 6.4 | 22 | J | 5.8 | -3 | 111 | -2.0 | 5.2 | -1.0 | 1 | J |
| 22 | 355 | 6.5 | 22 | J | 5.7 | -9 | 115 | -2.3 | 4.8 | -1.4 | 1 | J |
| 23 | 373 | 6.1 | 19 | J | 5.5 | 0 | 100 | -0.9 | 5.3 | -0.5 | 1 | J |
| 24 | 377 | 3.6 | 30 | J | 6.0 | -10 | 137 | -4.2 | 3.8 | -1.4 | 1 | J |

AUG. 10, 1978 222

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 376 | 3.8 | 84 | L | 5.8 | -10 | 138 | -4.2 | 3.6 | -1.5 | 1 | J |
| 2 | 384 | 3.9 | 33 | J | 5.4 | -9 | 138 | -3.9 | 3.3 | -1.4 | 1 | J |
| 3 | 377 | 4.1 | 30 | J | 5.2 | -4 | 145 | -4.2 | 2.8 | -0.9 | 1 | J |
| 4 | | | | | 4.4 | 3 | 178 | -4.2 | 0.2 | 0.2 | 1 | J |
| 5 | 373 | 6.0 | 23 | J | 5.0 | 15 | 151 | -4.0 | 2.5 | 0.5 | 2 | J |
| 6 | | | | | | | | | | | | |
| 7 | 386 | 6.7 | 38 | L | | | | | | | | |
| 8 | 383 | 6.4 | 48 | L | | | | | | | | |
| 9 | 372 | 8.6 | 24 | J | | | | | | | | |
| 10 | 383 | 9.3 | 27 | J | 5.1 | -13 | 120 | -1.9 | 2.5 | -2.4 | 3 | J |
| 11 | 388 | 9.3 | 25 | J | 5.0 | -17 | 94 | -0.3 | 3.2 | -3.3 | 2 | J |
| 12 | 379 | 9.3 | 23 | J | 4.8 | -17 | 121 | -2.3 | 2.6 | -3.0 | 1 | J |
| 13 | 371 | 9.1 | 25 | J | 4.9 | -12 | 143 | -3.0 | 1.6 | -1.8 | 3 | J |
| 14 | 365 | 8.3 | 39 | L | | | | | | | | |
| 15 | 364 | 7.9 | 41 | L | | | | | | | | |
| 16 | 366 | 7.7 | 40 | L | | | | | | | | |
| 17 | 359 | 7.8 | 39 | L | | | | | | | | |
| 18 | 367 | 0.0 | 0 | H | | | | | | | | |
| 19 | 352 | 8.5 | 38 | A | | | | | | | | |
| 20 | 350 | 8.4 | 39 | A | | | | | | | | |
| 21 | 345 | 9.2 | 41 | A | | | | | | | | |
| 22 | 365 | 0.0 | 0 | H | | | | | | | | |
| 23 | 350 | 9.6 | 39 | L | | | | | | | | |
| 24 | 346 | 10.7 | 40 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 0.0 | 0 | H | | | | | | | | |
| 2 | 346 | 10.1 | 56 | A | | | | | | | | |
| 3 | 355 | 10.3 | 71 | A | | | | | | | | |
| 4 | 368 | 9.6 | 62 | L | | | | | | | | |
| 5 | 359 | 11.2 | 56 | L | | | | | | | | |
| 6 | 351 | 11.0 | 48 | L | | | | | | | | |
| 7 | 353 | 11.2 | 47 | L | | | | | | | | |
| 8 | 346 | 11.5 | 48 | L | | | | | | | | |
| 9 | 347 | 15.3 | 51 | L | | | | | | | | |
| 10 | 352 | 15.4 | 45 | L | | | | | | | | |
| 11 | 353 | 11.1 | 35 | L | | | | | | | | |
| 12 | 362 | 13.3 | 44 | L | | | | | | | | |
| 13 | 369 | 11.5 | 100 | L | | | | | | | | |
| 14 | 370 | 11.9 | 111 | L | | | | | | | | |
| 15 | 333 | 13.0 | 116 | L | | | | | | | | |
| 16 | 379 | 11.8 | 81 | L | | | | | | | | |
| 17 | 364 | 12.5 | 95 | L | | | | | | | | |
| 18 | 372 | 13.2 | 93 | L | | | | | | | | |
| 19 | 369 | 13.6 | 83 | L | | | | | | | | |
| 20 | 368 | 13.1 | 87 | A | | | | | | | | |
| 21 | 376 | 0.0 | 0 | H | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 370 | 16.0 | 82 | L | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 368 | 0.0 | 0 | H | | | | | | | | |
| 2 | 367 | 17.3 | 100 | L | | | | | | | | |
| 3 | 366 | 15.3 | 84 | L | | | | | | | | |
| 4 | 367 | 14.9 | 89 | L | | | | | | | | |
| 5 | 375 | 13.8 | 84 | L | | | | | | | | |
| 6 | 381 | 15.2 | 86 | L | | | | | | | | |
| 7 | 391 | 15.1 | 84 | L | | | | | | | | |
| 8 | 375 | 16.2 | 94 | L | | | | | | | | |
| 9 | 384 | 18.9 | 97 | L | | | | | | | | |
| 10 | 394 | 18.3 | 112 | L | | | | | | | | |
| 11 | 402 | 0.0 | 0 | H | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 446 | 0.0 | 0 | H | | | | | | | | |
| 18 | 441 | 0.0 | 0 | H | | | | | | | | |
| 19 | 452 | 6.5 | 186 | L | | | | | | | | |
| 20 | 455 | 6.6 | 187 | L | | | | | | | | |
| 21 | 456 | 6.0 | 154 | L | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 531 | 0.0 | 0 | H | | | | | | | | |
| 24 | | | | | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 479 | 4.4 | 143 | L | | | | | | | | |
| 2 | 468 | 4.3 | 129 | L | | | | | | | | |
| 3 | 476 | 4.3 | 101 | L | | | | | | | | |
| 4 | 474 | 4.3 | 126 | L | | | | | | | | |
| 5 | 458 | 4.4 | 122 | L | | | | | | | | |
| 6 | 471 | 4.3 | 110 | L | | | | | | | | |
| 7 | 461 | 4.6 | 96 | L | | | | | | | | |
| 8 | 456 | 4.5 | 116 | L | | | | | | | | |
| 9 | 447 | 5.4 | 106 | L | | | | | | | | |
| 10 | 455 | 5.6 | 74 | L | | | | | | | | |
| 11 | 437 | 5.6 | 79 | L | | | | | | | | |
| 12 | 435 | 5.2 | 87 | L | | | | | | | | |
| 13 | 429 | 5.9 | 92 | L | | | | | | | | |
| 14 | 427 | 5.5 | 100 | L | | | | | | | | |
| 15 | 434 | 6.4 | 115 | L | | | | | | | | |
| 16 | 429 | 6.1 | 112 | L | | | | | | | | |
| 17 | 434 | 5.1 | 117 | L | | | | | | | | |
| 18 | 433 | 5.3 | 116 | L | | | | | | | | |
| 19 | 436 | 5.1 | 120 | L | | | | | | | | |
| 20 | 444 | 5.1 | 120 | L | | | | | | | | |
| 21 | 427 | 4.7 | 96 | L | | | | | | | | |
| 22 | 456 | 0.0 | 0 | H | | | | | | | | |
| 23 | 424 | 4.3 | 84 | L | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 14, 1978 226

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 430 | 4.4 | 81 | L | 3.9 | -8 | 143 | -2.6 | 1.9 | -0.7 | 2 | C |
| 2 | 432 | 4.3 | 73 | L | 4.0 | 9 | 137 | -2.6 | 2.5 | 0.1 | 1 | C |
| 3 | 423 | 3.9 | 69 | A | 4.1 | 4 | 124 | -2.0 | 3.0 | -0.4 | 1 | C |
| 4 | 433 | 8.0 | 56 | A | 2.6 | 17 | 129 | -1.5 | 2.0 | 0.2 | 1 | C |
| 5 | | | | | 1.7 | -33 | 143 | -0.9 | 0.4 | -0.9 | 1 | C |
| 6 | | | | | 1.8 | -59 | 229 | -0.3 | -0.7 | -0.6 | 1 | C |
| 7 | 413 | 11.0 | 40 | A | 2.1 | 8 | 155 | -1.8 | 0.9 | -0.1 | 1 | C |
| 8 | 412 | 13.7 | 43 | L | 2.4 | 10 | 151 | -2.1 | 1.2 | -0.1 | 0 | C |
| 9 | 410 | 12.5 | 45 | L | 2.5 | 16 | 148 | -2.0 | 1.4 | -0.0 | 1 | C |
| 10 | 411 | 0.0 | 0 | H | 1.2 | 29 | 186 | -0.9 | 0.2 | 0.5 | 1 | C |
| 11 | 399 | 8.7 | 57 | L | 3.7 | -10 | 271 | 0.0 | -3.3 | 1.2 | 1 | C |
| 12 | 369 | 6.8 | 53 | L | 4.9 | -15 | 314 | 2.9 | -3.2 | 0.6 | 2 | C |
| 13 | 369 | 6.9 | 63 | L | 4.9 | -1 | 328 | 3.0 | -1.6 | 0.8 | 3 | C |
| 14 | 376 | 8.3 | 73 | L | 4.4 | -4 | 333 | 3.7 | -1.8 | 0.6 | 1 | C |
| 15 | 390 | 10.1 | 76 | L | 2.1 | 49 | 237 | -0.5 | -0.3 | 1.4 | 1 | C |
| 16 | 394 | 10.6 | 68 | L | 2.1 | 8 | 212 | -1.4 | -0.7 | 0.5 | 1 | C |
| 17 | 383 | 8.2 | 78 | L | 3.7 | 59 | 351 | 1.2 | 0.5 | 2.0 | 3 | C |
| 18 | 392 | 8.3 | 67 | L | 4.1 | 9 | 248 | -1.3 | -2.9 | 1.4 | 2 | C |
| 19 | 392 | 12.2 | 55 | J | 2.0 | 44 | 212 | -0.5 | -0.2 | 0.6 | 2 | J |
| 20 | 386 | 10.6 | 71 | J | 2.6 | 7 | 98 | -0.2 | 1.4 | -0.1 | 2 | J |
| 21 | 377 | 8.5 | 62 | J | 3.7 | 2 | 46 | 2.3 | 2.4 | -0.2 | 2 | J |
| 22 | 366 | 7.3 | 80 | J | 4.6 | 22 | 31 | 3.5 | 2.3 | 1.4 | 1 | J |
| 23 | 372 | 6.2 | 58 | J | 4.6 | 28 | 37 | 3.1 | 2.6 | 1.8 | 1 | J |
| 24 | 353 | 7.2 | 102 | J | 3.9 | 13 | 13 | 3.6 | 0.9 | 0.7 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 350 | 6.3 | 93 | J | 4.0 | 31 | 4 | 3.2 | 0.5 | 1.9 | 1 | J |
| 2 | 338 | 4.9 | 33 | J | 4.0 | 22 | 1 | 3.6 | 0.3 | 1.4 | 1 | J |
| 3 | 357 | 5.3 | 66 | J | 4.9 | 11 | 296 | 1.9 | -3.6 | 1.7 | 2 | J |
| 4 | 356 | 5.0 | 104 | J | 4.5 | -3 | 318 | 3.0 | -2.6 | 0.5 | 2 | J |
| 5 | 353 | 5.4 | 183 | J | 4.2 | -1 | 327 | 3.3 | -2.0 | 0.6 | 1 | J |
| 6 | 351 | 5.9 | 257 | J | 3.9 | 5 | 346 | 3.5 | -0.7 | 0.6 | 1 | J |
| 7 | 354 | 4.7 | 146 | J | 4.1 | -2 | 335 | 3.4 | -1.5 | 0.5 | 1 | J |
| 8 | 359 | 3.7 | 107 | J | 4.4 | -8 | 328 | 3.3 | -2.1 | 0.4 | 2 | J |
| 9 | 350 | 3.8 | 111 | J | 3.9 | -11 | 343 | 3.2 | -1.2 | -0.1 | 2 | J |
| 10 | 358 | 5.0 | 173 | J | 4.4 | 17 | 351 | 4.1 | 0.1 | 1.4 | 1 | J |
| 11 | 344 | 4.2 | 88 | L | 4.3 | -16 | 329 | 3.5 | -2.4 | 0.0 | 0 | C |
| 12 | | | | | 4.3 | -17 | 327 | 3.4 | -2.5 | 0.0 | 1 | C |
| 13 | 334 | 3.8 | 38 | J | 4.6 | -2 | 339 | 3.9 | -1.4 | 0.6 | 2 | J |
| 14 | 337 | 4.1 | 38 | J | 4.5 | -20 | 352 | 3.9 | -1.2 | -1.0 | 1 | J |
| 15 | 353 | 7.1 | 20 | J | 3.9 | -16 | 312 | 2.0 | -2.4 | 0.2 | 2 | J |
| 16 | 353 | 8.1 | 32 | J | 4.1 | -27 | 319 | 2.4 | -2.5 | -0.7 | 2 | J |
| 17 | 344 | 7.3 | 23 | J | 4.5 | -27 | 334 | 3.4 | -2.2 | -1.3 | 1 | J |
| 18 | 348 | 6.7 | 22 | L | 3.2 | -43 | 339 | 2.1 | -1.4 | -1.8 | 1 | C |
| 19 | 348 | 8.3 | 18 | A | 2.9 | -44 | 2 | 2.0 | -0.4 | -1.9 | 1 | C |
| 20 | 344 | 7.6 | 16 | L | 2.4 | -25 | 335 | 1.8 | -1.0 | -0.7 | 1 | C |
| 21 | 343 | 9.0 | 17 | L | 2.2 | -30 | 8 | 1.6 | 0.1 | -1.0 | 1 | C |
| 22 | 344 | 9.2 | 20 | J | 2.0 | 13 | 354 | 1.7 | -0.1 | 0.4 | 1 | J |
| 23 | 343 | 9.8 | 20 | J | 2.0 | 3 | 9 | 1.9 | 0.3 | 0.1 | 1 | J |
| 24 | 338 | 11.2 | 15 | J | 2.2 | 18 | 6 | 2.1 | 0.3 | 0.6 | 0 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 329 | 11.0 | 16 | A | 2.1 | 16 | 2 | 2.0 | 0.2 | 0.5 | 0 | C |
| 2 | 325 | 9.6 | 15 | A | 3.8 | 7 | 342 | 3.6 | -1.1 | 0.7 | 0 | C |
| 3 | 324 | 10.0 | 13 | A | 3.7 | 3 | 339 | 3.4 | -1.3 | 0.5 | 0 | C |
| 4 | 326 | 10.3 | 13 | J | 4.2 | 6 | 319 | 2.9 | -2.3 | 1.1 | 1 | J |
| 5 | 326 | 10.7 | 16 | J | 4.7 | -1 | 313 | 2.9 | -3.0 | 0.9 | 2 | J |
| 6 | 321 | 8.5 | 33 | J | 5.0 | 6 | 330 | 4.1 | -2.0 | 1.3 | 1 | J |
| 7 | 316 | 7.8 | 44 | J | 5.3 | 7 | 344 | 5.0 | -1.0 | 1.2 | 1 | J |
| 8 | 318 | 7.6 | 58 | J | 6.0 | 11 | 344 | 5.6 | -0.9 | 1.7 | 1 | J |
| 9 | 320 | 7.6 | 75 | J | 5.3 | 1 | 340 | 4.8 | -1.5 | 0.9 | 1 | J |
| 10 | 326 | 8.3 | 55 | J | 5.4 | -16 | 322 | 3.7 | -3.2 | 0.3 | 2 | J |
| 11 | 344 | 8.1 | 29 | J | 5.5 | -23 | 296 | 1.9 | -4.2 | 0.4 | 3 | J |
| 12 | 324 | 8.5 | 58 | L | 5.2 | -26 | 304 | 2.5 | -4.4 | 0.0 | 1 | C |
| 13 | 324 | 9.4 | 48 | L | 5.4 | -29 | 331 | 3.9 | -3.1 | -1.1 | 2 | C |
| 14 | 308 | 13.2 | 28 | A | 4.3 | -38 | 8 | 3.2 | -0.8 | -2.4 | 2 | C |
| 15 | 303 | 15.0 | 14 | L | 3.2 | -26 | 31 | 2.3 | 0.7 | -1.8 | 1 | C |
| 16 | 323 | 18.2 | 18 | J | 2.7 | -10 | 341 | 2.0 | -0.8 | -0.1 | 2 | J |
| 17 | 322 | 20.8 | 16 | J | 2.5 | -19 | 314 | 1.1 | -1.2 | -0.1 | 2 | J |
| 18 | 316 | 22.5 | 17 | J | 3.4 | -7 | 322 | 2.1 | -1.7 | 0.2 | 2 | J |
| 19 | 324 | 23.2 | 14 | J | 4.4 | -15 | 294 | 1.7 | -3.9 | -0.2 | 1 | J |
| 20 | 329 | 21.3 | 20 | J | 5.4 | -81 | 100 | -0.1 | -0.1 | -3.1 | 5 | J |
| 21 | 337 | 12.1 | 41 | J | 6.0 | 28 | 293 | 1.9 | -4.1 | 3.3 | 2 | J |
| 22 | 337 | 11.4 | 56 | J | 5.5 | 12 | 285 | 1.2 | -4.3 | 1.6 | 3 | J |
| 23 | 339 | 11.0 | 64 | J | 5.7 | -14 | 279 | 0.7 | -4.6 | -0.5 | 3 | J |
| 24 | 337 | 11.2 | 65 | J | 6.3 | 0 | 304 | 2.9 | -4.2 | 0.6 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 340 | 10.5 | 63 | J | 6.5 | -18 | 292 | 2.1 | -5.3 | -1.0 | 3 | J |
| 2 | 338 | 11.0 | 46 | J | 6.5 | -11 | 288 | 1.9 | -6.1 | -0.1 | 1 | J |
| 3 | 340 | 11.2 | 51 | J | 6.3 | -2 | 296 | 2.7 | -5.4 | 1.0 | 2 | J |
| 4 | 337 | 11.7 | 43 | J | 6.8 | 5 | 302 | 3.5 | -5.3 | 2.1 | 1 | J |
| 5 | 338 | 12.2 | 37 | J | 7.0 | 4 | 303 | 3.8 | -5.4 | 2.3 | 1 | J |
| 6 | 336 | 12.7 | 33 | J | 7.4 | 10 | 307 | 4.3 | -4.9 | 3.3 | 1 | J |
| 7 | 337 | 12.8 | 39 | J | 7.3 | 15 | 311 | 4.6 | -4.0 | 3.9 | 1 | J |
| 8 | 338 | 14.3 | 36 | J | 7.8 | 1 | 295 | 3.0 | -5.8 | 3.1 | 3 | J |
| 9 | 348 | 15.9 | 28 | J | 8.5 | 15 | 252 | -2.4 | -5.6 | 5.5 | 2 | J |
| 10 | 350 | 16.4 | 40 | J | 7.7 | -1 | 273 | 0.4 | -6.4 | 3.6 | 2 | J |
| 11 | 357 | 23.2 | 38 | J | 8.5 | -76 | 76 | 0.5 | -2.4 | -7.5 | 3 | J |
| 12 | 353 | 22.3 | 41 | J | 9.6 | -74 | 326 | 2.1 | -5.8 | -6.9 | 3 | J |
| 13 | 353 | 19.7 | 46 | J | 9.3 | -19 | 274 | 0.5 | -8.0 | 1.6 | 4 | J |
| 14 | 354 | 13.6 | 77 | J | 8.4 | -23 | 288 | 2.1 | -7.0 | 0.5 | 5 | J |
| 15 | 365 | 12.6 | 129 | J | 7.9 | -43 | 325 | 3.2 | -3.7 | -2.3 | 6 | J |
| 16 | 371 | 12.0 | 107 | J | 8.4 | 7 | 298 | 3.4 | -5.5 | 3.4 | 4 | J |
| 17 | 378 | 11.8 | 121 | J | 8.4 | 11 | 295 | 2.6 | -4.8 | 3.1 | 5 | J |
| 18 | 384 | 11.2 | 98 | J | 9.8 | 32 | 308 | 4.2 | -3.9 | 5.6 | 6 | J |
| 19 | 375 | 10.9 | 99 | J | 8.7 | 47 | 332 | 4.8 | -1.1 | 6.3 | 3 | J |
| 20 | 384 | 10.2 | 121 | C | 7.9 | -19 | 311 | 4.0 | -4.9 | -1.1 | 4 | C |
| 21 | 408 | 8.9 | 115 | C | 7.7 | 14 | 329 | 5.0 | -2.7 | 2.0 | 4 | C |
| 22 | 416 | 8.6 | 112 | C | 8.0 | 12 | 338 | 5.8 | -2.2 | 1.7 | 4 | C |
| 23 | 422 | 8.0 | 103 | C | 8.4 | 29 | 310 | 3.5 | -3.8 | 3.6 | 5 | C |
| 24 | 433 | 7.7 | 97 | C | 8.2 | 23 | 303 | 3.1 | -4.4 | 3.0 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 433 | 7.1 | 104 | C | 8.1 | -31 | 284 | 1.4 | -6.3 | -2.6 | 4 | C |
| 2 | 424 | 8.1 | 116 | J | 7.5 | 8 | 299 | 3.2 | -5.4 | 2.0 | 3 | J |
| 3 | 415 | 6.9 | 70 | J | 7.2 | -16 | 315 | 4.5 | -4.8 | -0.7 | 3 | J |
| 4 | 411 | 6.7 | 53 | J | 7.2 | -20 | 311 | 4.4 | -5.6 | -1.0 | 1 | J |
| 5 | 421 | 6.7 | 85 | C | 6.9 | 1 | 305 | 3.7 | -5.0 | 1.8 | 2 | J |
| 6 | 419 | 6.7 | 79 | C | 7.2 | 5 | 310 | 4.2 | -4.5 | 2.4 | 3 | J |
| 7 | 392 | 6.1 | 92 | A | 8.3 | -6 | 311 | 5.2 | -5.8 | 1.8 | 2 | J |
| 8 | 377 | 6.0 | 50 | C | 8.6 | 17 | 347 | 6.5 | -0.4 | 2.5 | 5 | J |
| 9 | 393 | 7.3 | 58 | J | 8.4 | 4 | 306 | 4.5 | -5.2 | 3.5 | 3 | J |
| 10 | 392 | 8.1 | 59 | J | 8.2 | 26 | 330 | 6.0 | -1.3 | 4.7 | 3 | J |
| 11 | 391 | 8.9 | 71 | J | 8.2 | -22 | 309 | 4.6 | -6.3 | 0.4 | 2 | J |
| 12 | 392 | 8.3 | 73 | J | 7.5 | -7 | 312 | 4.6 | -4.8 | 1.9 | 3 | J |
| 13 | 403 | 10.9 | 88 | J | 9.9 | 1 | 309 | 5.9 | -6.2 | 3.8 | 4 | J |
| 14 | 445 | 15.4 | 121 | J | 12.7 | -7 | 309 | 7.0 | -8.2 | 3.0 | 6 | J |
| 15 | 420 | 14.6 | 84 | J | 12.1 | -1 | 308 | 7.2 | -8.3 | 3.9 | 3 | J |
| 16 | 418 | 15.4 | 56 | J | 11.8 | -7 | 311 | 7.2 | -8.2 | 2.1 | 4 | J |
| 17 | 407 | 13.9 | 57 | J | 12.0 | 17 | 312 | 7.6 | -6.7 | 6.2 | 2 | J |
| 18 | 418 | 16.6 | 73 | J | 11.3 | -67 | 196 | -3.9 | -3.9 | -8.9 | 4 | J |
| 19 | 405 | 16.9 | 70 | J | 9.0 | -72 | 228 | -1.8 | -4.0 | -7.6 | 2 | J |
| 20 | 402 | 18.1 | 76 | J | 7.4 | -7 | 306 | 3.3 | -4.5 | 0.2 | 5 | J |
| 21 | 425 | 11.3 | 112 | J | 8.7 | -40 | 319 | 3.0 | -3.1 | -2.9 | 7 | J |
| 22 | 423 | 13.2 | 79 | J | 8.5 | -53 | 295 | 2.1 | -5.3 | -5.8 | 2 | J |
| 23 | 443 | 10.1 | 65 | J | 9.6 | -51 | 308 | 3.5 | -5.5 | -6.4 | 3 | J |
| 24 | 437 | 6.8 | 71 | J | 10.8 | -13 | 317 | 7.6 | -7.3 | -1.3 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 448 | 8.0 | 107 | C | 8.2 | 31 | 322 | 4.7 | -3.0 | 4.2 | 4 | C |
| 2 | 440 | 8.4 | 102 | C | 7.2 | 53 | 333 | 3.5 | -0.7 | 5.5 | 3 | C |
| 3 | 436 | 6.8 | 64 | C | 8.3 | 67 | 313 | 2.1 | -0.5 | 7.6 | 2 | C |
| 4 | 459 | 5.0 | 38 | J | 7.0 | 42 | 307 | 3.0 | -2.6 | 5.4 | 2 | J |
| 5 | 470 | 4.9 | 52 | J | 6.9 | 23 | 313 | 4.3 | -3.5 | 4.0 | 1 | J |
| 6 | 471 | 5.3 | 72 | J | 6.5 | 32 | 322 | 4.3 | -1.8 | 4.4 | 1 | J |
| 7 | 461 | 5.4 | 67 | J | 6.2 | 23 | 320 | 4.2 | -2.2 | 3.6 | 2 | J |
| 8 | 473 | 6.0 | 87 | J | 5.5 | -68 | 54 | 0.7 | -0.5 | -3.0 | 4 | J |
| 9 | 461 | 5.8 | 74 | C | 5.3 | -9 | 88 | 0.1 | 2.7 | -2.1 | 4 | J |
| 10 | 455 | 5.9 | 91 | C | 4.3 | 18 | 351 | 2.7 | 0.1 | 1.0 | 3 | C |
| 11 | 465 | 6.9 | 74 | J | 5.1 | -20 | 347 | 3.0 | -1.2 | -0.6 | 4 | J |
| 12 | 446 | 5.8 | 68 | J | 4.9 | 19 | 5 | 3.1 | 0.8 | 0.8 | 4 | J |
| 13 | 443 | 6.2 | 98 | J | 4.7 | -2 | 354 | 4.0 | -0.4 | 0.1 | 2 | J |
| 14 | 458 | 6.7 | 79 | J | 5.2 | -45 | 292 | 1.2 | -4.0 | -1.3 | 3 | J |
| 15 | 458 | 6.1 | 49 | J | 4.9 | -67 | 326 | 0.4 | -0.7 | -0.8 | 5 | J |
| 16 | 449 | 5.8 | 69 | J | 4.6 | 35 | 52 | 2.0 | 3.3 | 1.1 | 2 | J |
| 17 | 428 | 5.4 | 71 | J | 4.7 | 25 | 21 | 3.6 | 1.9 | 1.2 | 2 | J |
| 18 | 431 | 5.4 | 73 | J | 4.7 | 16 | 39 | 3.4 | 3.0 | 0.4 | 2 | J |
| 19 | 425 | 5.3 | 59 | J | 4.4 | -9 | 34 | 3.3 | 2.0 | -1.2 | 2 | J |
| 20 | 426 | 4.9 | 56 | C | 4.7 | 20 | 54 | 2.4 | 3.6 | 0.8 | 2 | J |
| 21 | 419 | 4.9 | 50 | J | 4.8 | 11 | 15 | 4.5 | 1.3 | 0.7 | 1 | J |
| 22 | 418 | 5.4 | 38 | J | 4.9 | 3 | 5 | 4.7 | 0.4 | 0.2 | 1 | J |
| 23 | 416 | 4.7 | 34 | J | 4.7 | 7 | 359 | 4.5 | 0.0 | 0.6 | 1 | J |
| 24 | 421 | 4.8 | 41 | J | 4.6 | 28 | 349 | 3.8 | -0.4 | 2.2 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 4.8 | 30 | J | 4.6 | 10 | 343 | 4.0 | -1.1 | 0.9 | 2 | J |
| 2 | 411 | 4.8 | 28 | J | 5.1 | 18 | 336 | 4.3 | -1.6 | 1.9 | 1 | J |
| 3 | 414 | 5.0 | 27 | J | 5.1 | 21 | 344 | 4.6 | -0.8 | 2.1 | 1 | J |
| 4 | 410 | 4.9 | 27 | J | 5.0 | 7 | 349 | 4.9 | -0.7 | 0.9 | 1 | J |
| 5 | 402 | 4.5 | 37 | C | 5.4 | 17 | 342 | 4.9 | -1.0 | 2.0 | 1 | J |
| 6 | 399 | 4.3 | 37 | C | 5.2 | 2 | 339 | 4.8 | -1.6 | 0.9 | 1 | J |
| 7 | 413 | 4.3 | 27 | J | 5.3 | 11 | 331 | 4.5 | -1.8 | 2.0 | 1 | J |
| 8 | 405 | 4.3 | 33 | J | 5.2 | 14 | 333 | 4.4 | -1.4 | 2.1 | 1 | J |
| 9 | 402 | 4.1 | 30 | J | 5.3 | -1 | 336 | 4.7 | -1.9 | 1.0 | 0 | J |
| 10 | 388 | 4.6 | 32 | C | 5.1 | 16 | 334 | 4.4 | -1.1 | 2.3 | 0 | C |
| 11 | 391 | 4.3 | 35 | C | 5.1 | 7 | 331 | 4.4 | -1.8 | 1.8 | 1 | C |
| 12 | 392 | 4.5 | 36 | C | 4.9 | -7 | 331 | 4.0 | -2.2 | 0.7 | 2 | C |
| 13 | 390 | 4.3 | 34 | C | 4.9 | 5 | 331 | 4.2 | -1.8 | 1.5 | 1 | J |
| 14 | 390 | 4.5 | 33 | C | 4.9 | -4 | 329 | 4.2 | -2.4 | 0.9 | 1 | J |
| 15 | 387 | 4.8 | 29 | C | 4.8 | -4 | 311 | 3.1 | -3.2 | 1.3 | 1 | C |
| 16 | 387 | 4.9 | 29 | C | 4.8 | 3 | 299 | 2.2 | -3.6 | 1.9 | 1 | C |
| 17 | 378 | 5.0 | 28 | C | 4.7 | -6 | 324 | 3.8 | -2.7 | 0.5 | 0 | J |
| 18 | 369 | 5.2 | 26 | C | 4.4 | -3 | 327 | 2.8 | -1.8 | 0.4 | 3 | J |
| 19 | 362 | 5.4 | 28 | J | 4.4 | -14 | 303 | 2.2 | -3.5 | -0.1 | 2 | J |
| 20 | 361 | 6.0 | 41 | J | 4.2 | -29 | 329 | 2.6 | -1.9 | -1.3 | 2 | J |
| 21 | 350 | 6.5 | 27 | C | 4.0 | -10 | 312 | 2.3 | -2.6 | -0.1 | 2 | C |
| 22 | 342 | 6.9 | 25 | C | 3.8 | -10 | 337 | 3.3 | -1.5 | -0.4 | 1 | C |
| 23 | 344 | 7.1 | 24 | C | 3.8 | -7 | 346 | 3.3 | -0.9 | -0.3 | 1 | C |
| 24 | 337 | 4.1 | 20 | J | 3.1 | 6 | 11 | 2.4 | 0.5 | 0.2 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 339 | 6.5 | 31 | J | 3.6 | -7 | 337 | 3.2 | -1.4 | -0.2 | 1 | J |
| 2 | 361 | 6.6 | 17 | J | 3.6 | 20 | 263 | -0.4 | -3.0 | 1.8 | 1 | J |
| 3 | 350 | 6.6 | 33 | J | 3.5 | -11 | 308 | 2.0 | -2.6 | 0.0 | 1 | J |
| 4 | 343 | 7.6 | 23 | C | 3.5 | -14 | 293 | 1.3 | -3.2 | 0.1 | 1 | C |
| 5 | 338 | 7.7 | 21 | C | 3.7 | -1 | 301 | 1.7 | -2.7 | 0.9 | 1 | C |
| 6 | 329 | 8.0 | 20 | C | 3.9 | 13 | 311 | 2.4 | -2.2 | 1.8 | 1 | C |
| 7 | 332 | 7.4 | 15 | J | 3.9 | 3 | 347 | 3.7 | -0.7 | 0.5 | 1 | J |
| 8 | 331 | 7.6 | 16 | J | 3.9 | -12 | 360 | 3.8 | -0.4 | -0.7 | 1 | J |
| 9 | 334 | 7.6 | 16 | J | 4.0 | -23 | 358 | 3.6 | -0.9 | -1.3 | 1 | J |
| 10 | 341 | 8.5 | 21 | J | 3.7 | -5 | 283 | 0.7 | -2.6 | 1.3 | 2 | J |
| 11 | 343 | 8.6 | 19 | J | 3.7 | -6 | 261 | -0.5 | -3.1 | 1.5 | 1 | J |
| 12 | 333 | 8.8 | 31 | L | 3.8 | -14 | 286 | 1.0 | -3.3 | 1.0 | 1 | C |
| 13 | 326 | 7.4 | 31 | L | 4.1 | -18 | 327 | 3.2 | -2.4 | 0.0 | 1 | C |
| 14 | 323 | 8.2 | 32 | L | 4.5 | -23 | 341 | 3.8 | -2.0 | -0.8 | 1 | C |
| 15 | 320 | 7.6 | 26 | L | 4.4 | -30 | 353 | 3.8 | -1.4 | -1.8 | 1 | J |
| 16 | 330 | 9.4 | 26 | L | 4.7 | -30 | 342 | 3.7 | -2.0 | -1.6 | 1 | J |
| 17 |  |  |  |  | 4.9 | -12 | 304 | 2.6 | -4.0 | 0.5 | 1 | J |
| 18 | 321 | 11.9 | 21 | C | 5.5 | -7 | 318 | 3.9 | -3.5 | 0.5 | 2 | C |
| 19 | 327 | 11.0 | 19 | J | 5.6 | 9 | 303 | 3.0 | -4.2 | 2.0 | 1 | J |
| 20 | 329 | 12.2 | 15 | J | 5.4 | -2 | 300 | 2.6 | -4.5 | 0.8 | 1 | J |
| 21 | 335 | 24.1 | 11 | J | 3.6 | -22 | 308 | 1.8 | -2.4 | -0.7 | 2 | J |
| 22 | 342 | 12.1 | 19 | J | 6.1 | -85 | 56 | 0.3 | -0.5 | -6.0 | 2 | J |
| 23 | 350 | 9.0 | 19 | J | 6.7 | -56 | 340 | 3.5 | -2.1 | -5.2 | 1 | J |
| 24 | 356 | 11.0 | 17 | J | 6.6 | -70 | 352 | 2.2 | -1.3 | -6.0 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 15.0 | 14 | J | 6.6 | -63 | 338 | 2.7 | -2.1 | -5.4 | 1 | J |
| 2 | 351 | 11.9 | 22 | J | 7.3 | -55 | 333 | 3.5 | -2.9 | -5.2 | 2 | J |
| 3 | 344 | 11.2 | 33 | J | 7.1 | -48 | 332 | 4.1 | -3.4 | -4.4 | 1 | J |
| 4 | 349 | 11.1 | 58 | L | 7.1 | -23 | 307 | 3.8 | -5.6 | -1.1 | 1 | C |
| 5 | 349 | 11.6 | 62 | L | 5.4 | 2 | 306 | 2.5 | -3.2 | 1.3 | 3 | C |
| 6 | 351 | 12.5 | 69 | L | 5.6 | 24 | 305 | 2.5 | -2.5 | 3.2 | 3 | C |
| 7 | 356 | 10.3 | 56 | J | 5.4 | 11 | 311 | 3.0 | -2.7 | 2.3 | 3 | J |
| 8 | 357 | 11.6 | 39 | J | 5.9 | 16 | 268 | -0.2 | -4.1 | 4.0 | 2 | J |
| 9 | 354 | 10.9 | 36 | J | 6.3 | 2 | 265 | -0.5 | -5.2 | 3.3 | 1 | J |
| 10 | 346 | 10.2 | 37 | J | 5.9 | -2 | 271 | 0.1 | -5.1 | 2.9 | 0 | J |
| 11 | 346 | 10.2 | 49 | J | 5.0 | 26 | 263 | -0.5 | -2.5 | 4.0 | 2 | J |
| 12 | 337 | 9.9 | 40 | J | 4.2 | -30 | 360 | 3.6 | -1.1 | -1.8 | 1 | J |
| 13 | 341 | 9.6 | 37 | J | 4.4 | 2 | 332 | 3.7 | -1.6 | 1.1 | 2 | J |
| 14 | 340 | 9.9 | 74 | L | 4.1 | 17 | 347 | 3.4 | -0.2 | 1.3 | 2 | J |
| 15 | 338 | 9.3 | 48 | J | 3.9 | 38 | 27 | 1.1 | 0.9 | 0.6 | 4 | J |
| 16 | 333 | 9.2 | 37 | J | 4.4 | 13 | 319 | 3.2 | -2.1 | 2.0 | 1 | J |
| 17 | 336 | 9.8 | 33 | J | 4.8 | 14 | 296 | 1.9 | -3.3 | 2.4 | 1 | J |
| 18 | 337 | 9.9 | 33 | J | 4.7 | 23 | 291 | 1.2 | -2.6 | 2.4 | 3 | J |
| 19 | 335 | 10.1 | 37 | J | 4.6 | 11 | 285 | 1.0 | -3.3 | 1.6 | 3 | J |
| 20 | 338 | 10.4 | 37 | J | 4.5 | 51 | 295 | 1.1 | -1.6 | 3.5 | 2 | J |
| 21 | 335 | 9.7 | 38 | J | 4.3 | -18 | 291 | 1.4 | -3.9 | -0.6 | 1 | J |
| 22 | 335 | 9.4 | 37 | J | 4.3 | 22 | 285 | 0.9 | -3.0 | 1.8 | 2 | J |
| 23 | 332 | 8.8 | 37 | J | 4.7 | 25 | 285 | 1.1 | -3.6 | 2.5 | 1 | J |
| 24 | 338 | 9.0 | 32 | J | 4.7 | 18 | 273 | 0.2 | -4.0 | 2.1 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 335 | 8.8 | 35 | J | 4.9 | 13 | 292 | 1.5 | -3.5 | 1.6 | 3 | J |
| 2 | 325 | 8.6 | 40 | J | 5.0 | -4 | 294 | 2.0 | -4.4 | 0.6 | 1 | J |
| 3 | 324 | 8.4 | 40 | J | 4.8 | -39 | 293 | 1.4 | -3.8 | -1.9 | 2 | J |
| 4 | 320 | 8.7 | 45 | J | 5.0 | 20 | 312 | 2.9 | -2.6 | 2.4 | 2 | J |
| 5 | 325 | 8.6 | 33 | J | 4.8 | -7 | 290 | 1.5 | -4.1 | 0.9 | 1 | J |
| 6 | 331 | 8.3 | 27 | J | 4.9 | -6 | 272 | 0.1 | -4.1 | 1.3 | 2 | J |
| 7 | 319 | 8.0 | 28 | J | 4.9 | -13 | 289 | 1.5 | -4.3 | 0.9 | 2 | J |
| 8 | 314 | 7.8 | 43 | L | 4.9 | -19 | 283 | 1.0 | -4.4 | 0.7 | 1 | C |
| 9 | 308 | 7.4 | 43 | L | 4.9 | -21 | 318 | 3.2 | -3.3 | 0.0 | 1 | C |
| 10 | 302 | 6.9 | 39 | L | 5.2 | -36 | 341 | 3.9 | -2.8 | -1.9 | 1 | C |
| 11 | 302 | 7.0 | 38 | L | 5.4 | -34 | 331 | 3.8 | -3.4 | -1.4 | 1 | C |
| 12 | 297 | 6.8 | 33 | L | 5.5 | -37 | 338 | 3.9 | -3.1 | -1.9 | 1 | C |
| 13 | 299 | 6.8 | 40 | L | 5.4 | -2 | 298 | 2.3 | -3.9 | 2.1 | 2 | C |
| 14 | 301 | 7.1 | 34 | L | 5.6 | 2 | 296 | 2.2 | -3.9 | 2.4 | 2 | C |
| 15 | 306 | 7.0 | 32 | L | 5.6 | 39 | 292 | 1.6 | -1.9 | 4.9 | 1 | C |
| 16 | 311 | 7.5 | 36 | L | 5.5 | 10 | 290 | 1.7 | -3.9 | 2.7 | 2 | C |
| 17 | 309 | 6.4 | 43 | L | 5.4 | -53 | 301 | 1.5 | -3.6 | -2.6 | 2 | C |
| 18 | 315 | 8.9 | 28 | C | 5.3 | -14 | 279 | 0.7 | -4.8 | 0.3 | 2 | C |
| 19 | 318 | 9.1 | 22 | C | 5.2 | -25 | 284 | 0.8 | -3.6 | -0.6 | 3 | C |
| 20 | 323 | 9.5 | 32 | L | 5.2 | 34 | 287 | 1.2 | -3.3 | 3.6 | 1 | C |
| 21 | 323 | 10.5 | 29 | L | 5.3 | 12 | 290 | 1.7 | -4.4 | 1.9 | 1 | C |
| 22 | 314 | 12.1 | 18 | C | 5.4 | -26 | 298 | 2.3 | -4.5 | -1.6 | 1 | C |
| 23 | 312 | 12.0 | 17 | C | 5.6 | -54 | 322 | 2.5 | -2.6 | -4.0 | 1 | C |
| 24 | 313 | 13.3 | 14 | C | 4.9 | -56 | 313 | 1.7 | -2.4 | -3.4 | 2 | C |

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OF POOR QUALITY

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AUG. 24, 1978 236

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 312 | 14.6 | 15 | C | 4.6 | -33 | 290 | 1.1 | -3.5 | -1.6 | 2 | C |
| 2 | 312 | 15.4 | 13 | C | 4.1 | -2 | 286 | 1.1 | -3.7 | 0.7 | 1 | C |
| 3 | 312 | 10.7 | 15 | C | 5.8 | -10 | 280 | 0.8 | -5.0 | 0.4 | 3 | C |
| 4 | 331 | 17.3 | 22 | L | 3.0 | 20 | 82 | 0.3 | 2.4 | 0.1 | 2 | C |
| 5 | 335 | 19.5 | 22 | L | 1.4 | 49 | 46 | 0.6 | 0.9 | 0.7 | 1 | C |
| 6 | 331 | 18.9 | 19 | L | 1.2 | 23 | 53 | 0.4 | 0.7 | 0.1 | 1 | C |
| 7 | 327 | 18.6 | 19 | L | 1.1 | 3 | 74 | 0.1 | 0.4 | -0.2 | 1 | C |
| 8 | 324 | 33.2 | 12 | L |  |  |  |  |  |  |  |  |
| 9 | 318 | 19.6 | 17 | L |  |  |  |  |  |  |  |  |
| 10 | 317 | 22.2 | 17 | L | 3.5 | 10 | 33 | 2.9 | 1.9 | -0.5 | 0 | C |
| 11 | 318 | 22.8 | 14 | L | 2.5 | -16 | 39 | 0.8 | 0.4 | -0.6 | 2 | C |
| 12 | 318 | 21.1 | 15 | L | 3.5 | -12 | 10 | 2.1 | 0.1 | -0.6 | 3 | C |
| 13 | 316 | 19.9 | 13 | L | 3.3 | 22 | 27 | 2.7 | 1.8 | 0.3 | 1 | C |
| 14 | 315 | 19.7 | 17 | L | 3.0 | 30 | 44 | 1.8 | 2.2 | 0.4 | 1 | C |
| 15 | 316 | 21.3 | 15 | L | 1.9 | 46 | 22 | 1.2 | 1.0 | 0.9 | 1 | C |
| 16 | 312 | 18.8 | 17 | L | 3.1 | 41 | 352 | 2.1 | 0.5 | 1.8 | 2 | C |
| 17 | 307 | 12.3 | 19 | L | 5.4 | 39 | 350 | 4.0 | 0.5 | 3.3 | 1 | C |
| 18 | 309 | 12.4 | 21 | L | 5.4 | 34 | 320 | 3.3 | -1.7 | 3.6 | 1 | C |
| 19 | 316 | 13.7 | 25 | L | 4.8 | 29 | 304 | 1.9 | -2.3 | 2.6 | 2 | C |
| 20 | 314 | 15.3 | 27 | L | 4.5 | 2 | 309 | 2.7 | -3.2 | 0.9 | 1 | C |
| 21 | 316 | 20.1 | 17 | C | 4.6 | 20 | 285 | 0.9 | -3.2 | 1.9 | 2 | C |
| 22 | 306 | 19.4 | 19 | C | 5.2 | 40 | 351 | 3.5 | -0.1 | 3.0 | 2 | C |
| 23 | 302 | 15.4 | 31 | L | 5.0 | 4 | 348 | 4.8 | -0.9 | 0.5 | 1 | C |
| 24 | 298 | 19.5 | 22 | C | 4.8 | -13 | 350 | 4.6 | -1.0 | -0.9 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 308 | 20.3 | 29 | L | 4.6 | -29 | 338 | 3.5 | -1.8 | -1.8 | 1 | C |
| 2 | 317 | 20.5 | 35 | L | 4.7 | -13 | 293 | 1.6 | -3.9 | -0.1 | 2 | C |
| 3 | 316 | 20.7 | 34 | L | 5.5 | 21 | 272 | 0.2 | -4.4 | 3.2 | 0 | C |
| 4 | 312 | 26.8 | 26 | L | 1.8 | 33 | 148 | -0.8 | 0.7 | 0.4 | 1 | C |
| 5 | 307 | 33.3 | 15 | C | 1.4 | -48 | 116 | -0.4 | 0.4 | -1.1 | 1 | C |
| 6 | 306 | 34.1 | 15 | C | 1.9 | -64 | 1 | 0.6 | -0.5 | -1.1 | 1 | C |
| 7 | 307 | 32.7 | 21 | A | 2.7 | -70 | 53 | 0.5 | -0.4 | -2.5 | 0 | C |
| 8 | 295 | 33.7 | 15 | C | 2.8 | -59 | 57 | 0.7 | -0.1 | -2.3 | 1 | C |
| 9 | 299 | 29.9 | 20 | C | 5.2 | 18 | 152 | -3.9 | 2.5 | 0.2 | 2 | C |
| 10 | 314 | 27.7 | 32 | L | 6.5 | -51 | 137 | -2.2 | -0.2 | -4.2 | 4 | C |
| 11 | 313 | 31.7 | 32 | L | 8.4 | -20 | 114 | -3.1 | 4.5 | -6.3 | 1 | C |
| 12 | 337 | 10.1 | 64 | L |  |  |  |  |  |  |  |  |
| 13 | 339 | 7.9 | 86 | L | 9.6 | -42 | 71 | 2.3 | 2.4 | -8.9 | 1 | C |
| 14 | 358 | 10.6 | 108 | L | 8.7 | 24 | 137 | -4.7 | 5.1 | 0.3 | 5 | C |
| 15 | 362 | 12.4 | 119 | L | 6.5 | 26 | 122 | -2.9 | 5.4 | 0.2 | 2 | C |
| 16 | 358 | 10.5 | 113 | L | 6.2 | 22 | 162 | -5.0 | 2.4 | 1.2 | 2 | C |
| 17 | 363 | 10.8 | 107 | L | 6.4 | -30 | 143 | -3.5 | 1.5 | -3.4 | 4 | C |
| 18 | 368 | 10.6 | 103 | L | 6.9 | -26 | 92 | -0.2 | 4.2 | -4.1 | 3 | C |
| 19 | 354 | 10.4 | 101 | L | 6.1 | 4 | 142 | -4.4 | 3.4 | -0.5 | 2 | C |
| 20 | 360 | 8.8 | 73 | L | 6.6 | 38 | 147 | -4.3 | 3.6 | 3.3 | 1 | C |
| 21 | 363 | 8.3 | 73 | L | 6.4 | 21 | 136 | -3.8 | 4.0 | 1.3 | 3 | C |
| 22 | 362 | 7.7 | 53 | C | 5.3 | 5 | 124 | -2.4 | 3.6 | -0.2 | 3 | C |
| 23 | 371 | 7.2 | 63 | C | 4.3 | 11 | 142 | -1.5 | 1.2 | 0.2 | 4 | C |
| 24 | 374 | 6.6 | 65 | C | 3.4 | -4 | 90 | 0.0 | 2.3 | -0.6 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 366 | 6.3 | 57 | C | 2.9 | -35 | 173 | -1.8 | -0.0 | -1.3 | 2 | C |
| 2 | 365 | 5.8 | 55 | C | 3.2 | 11 | 177 | -2.9 | 0.3 | 0.5 | 1 | C |
| 3 | 364 | 5.6 | 49 | C | 3.8 | 19 | 163 | -3.4 | 1.3 | 0.9 | 1 | C |
| 4 | 361 | 5.3 | 76 | L | 3.6 | 1 | 162 | -3.4 | 1.1 | -0.3 | 1 | C |
| 5 | 362 | 5.4 | 72 | L | 3.8 | -2 | 165 | -3.6 | 0.9 | -0.5 | 0 | C |
| 6 | 361 | 5.3 | 70 | L | 3.7 | -8 | 160 | -3.4 | 0.9 | -1.0 | 1 | C |
| 7 | 362 | 5.4 | 68 | L |  |  |  |  |  |  |  |  |
| 8 | 364 | 5.2 | 68 | L | 3.5 | 4 | 164 | -3.3 | 0.9 | -0.3 | 0 | C |
| 9 | 361 | 4.6 | 55 | L | 3.5 | -7 | 163 | -3.3 | 0.7 | -0.9 | 0 | C |
| 10 | 357 | 4.8 | 58 | L | 3.5 | -20 | 166 | -3.1 | 0.0 | -1.4 | 0 | C |
| 11 | 354 | 5.8 | 64 | L | 2.6 | -27 | 144 | -1.8 | 0.5 | -1.6 | 1 | C |
| 12 | 356 | 5.7 | 63 | L | 2.7 | -17 | 108 | -0.7 | 1.5 | -1.8 | 1 | C |
| 13 | 350 | 5.7 | 59 | L | 2.8 | -18 | 147 | -2.2 | 0.7 | -1.4 | 1 | C |
| 14 | 348 | 5.9 | 64 | L | 2.2 | -18 | 155 | -1.9 | 0.4 | -1.0 | 0 | C |
| 15 | 348 | 5.6 | 53 | L | 3.1 | -20 | 144 | -2.3 | 1.0 | -1.7 | 0 | C |
| 16 | 348 | 6.0 | 49 | L | 2.6 | -39 | 128 | -1.2 | 0.7 | -2.1 | 1 | C |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 340 | 6.0 | 47 | L | 3.5 | -3 | 176 | -3.3 | 0.2 | -0.2 | 1 | C |
| 19 | 335 | 6.8 | 43 | L | 3.2 | -6 | 110 | -0.9 | 2.3 | -0.9 | 2 | C |
| 20 | 331 | 7.1 | 41 | L | 2.9 | 7 | 83 | 0.3 | 2.5 | -0.3 | 1 | C |
| 21 | 319 | 6.4 | 35 | L | 3.5 | 1 | 109 | -1.1 | 3.1 | -0.5 | 1 | C |
| 22 | 314 | 6.0 | 29 | L | 3.5 | 5 | 135 | -1.7 | 1.7 | -0.1 | 2 | C |
| 23 | 309 | 5.8 | 37 | L | 3.6 | -7 | 170 | -3.3 | 0.5 | -0.5 | 1 | C |
| 24 | 306 | 6.0 | 31 | L | 3.7 | 1 | 161 | -3.4 | 1.2 | -0.1 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 303 | 9.0 | 20 | C | 4.3 | 4 | 159 | -3.9 | 1.5 | 0.0 | 1 | C |
| 2 | 305 | 8.0 | 21 | C | 3.7 | -7 | 170 | -3.5 | 0.5 | -0.6 | 1 | C |
| 3 | 339 | 11.7 | 54 | C | 5.0 | 10 | 135 | -3.2 | 3.3 | -0.1 | 2 | C |
| 4 | 432 | 19.3 | 159 | C | 8.7 | -10 | 70 | 2.1 | 5.2 | -2.8 | 6 | C |
| 5 | 431 | 32.5 | 166 | L | 12.4 | 28 | 120 | -5.3 | 10.6 | 2.0 | 3 | C |
| 6 | 439 | 36.8 | 185 | L | 7.2 | -53 | 123 | -2.3 | 1.0 | -6.4 | 2 | C |
| 7 | 434 | 41.0 | 175 | L | 8.4 | -13 | 147 | -6.2 | 2.8 | -3.4 | 3 | C |
| 8 | 435 | 45.0 | 169 | L | 8.8 | 22 | 153 | -6.9 | 4.6 | 1.1 | 2 | C |
| 9 | 432 | 59.2 | 128 | L | 9.9 | 18 | 150 | -8.1 | 5.6 | 0.2 | 1 | C |
| 10 | 424 | 59.7 | 115 | L | 9.9 | 4 | 143 | -7.7 | 5.3 | -2.5 | 1 | C |
| 11 | 423 | 62.5 | 105 | L | 5.9 | -12 | 142 | -3.9 | 2.0 | -2.5 | 4 | C |
| 12 | 419 | 56.3 | 108 | L |  |  |  |  |  |  |  |  |
| 13 | 418 | 39.6 | 79 | J | 9.2 | -25 | 119 | -3.8 | 3.9 | -6.8 | 3 | C |
| 14 | 405 | 34.0 | 70 | J | 7.6 | -11 | 76 | 1.7 | 5.0 | -4.4 | 3 | C |
| 15 | 391 | 32.0 | 63 | J | 10.1 | 3 | 112 | -3.5 | 7.9 | -3.6 | 4 | C |
| 16 | 385 | 34.2 | 58 | J | 8.4 | 59 | 88 | 0.1 | 6.1 | 4.1 | 3 | C |
| 17 | 402 | 28.0 | 58 | J | 7.6 | 58 | 74 | 0.9 | 4.6 | 3.6 | 5 | C |
| 18 | 402 | 26.3 | 41 | J | 13.1 | 83 | 355 | 1.4 | 3.6 | 11.0 | 6 | C |
| 19 | 403 | 31.1 | 78 | J | 9.9 | -78 | 117 | -0.4 | -0.4 | -4.6 | 8 | C |
| 20 | 390 | 15.7 | 94 | J | 16.7 | 9 | 291 | 5.8 | -13.9 | 5.8 | 4 | C |
| 21 | 418 | 7.8 | 76 | J | 18.3 | 12 | 298 | 8.4 | -14.5 | 6.8 | 3 | C |
| 22 | 445 | 4.9 | 76 | J | 20.0 | -7 | 303 | 10.8 | -16.7 | 0.5 | 2 | C |
| 23 | 448 | 5.5 | 59 | J | 21.0 | -30 | 307 | 11.0 | -15.9 | -8.0 | 1 | C |
| 24 | 457 | 8.6 | 37 | J | 21.4 | -36 | 317 | 12.7 | -13.7 | -10.3 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 469 | 5.3 | 47 | J | 22.5 | -36 | 321 | 14.2 | -13.8 | -10.6 | 2 | C |
| 2 | 457 | 4.4 | 60 | L | 22.6 | -44 | 320 | 12.4 | -13.6 | -13.0 | 1 | C |
| 3 | 352 | 3.2 | 120 | J | 23.6 | -45 | 352 | 16.5 | -6.6 | -15.3 | 2 | C |
| 4 | 360 | 4.7 | 87 | J | 23.6 | -51 | 354 | 14.7 | -7.2 | -16.9 | 1 | C |
| 5 | 449 | 12.4 | 76 | J | 22.2 | -48 | 342 | 13.4 | -9.6 | -13.0 | 7 | J |
| 6 | 477 | 29.6 | 83 | J | 20.4 | -68 | 63 | 2.9 | -1.2 | -16.7 | 11 | J |
| 7 | 480 | 25.0 | 95 | J | 23.0 | -58 | 95 | -1.1 | 2.1 | -22.8 | 3 | J |
| 8 | 473 | 28.9 | 98 | J | 22.7 | -68 | 93 | -0.4 | -2.8 | -22.4 | 2 | J |
| 9 | 469 | 35.8 | 161 | J | 16.3 | -54 | 90 | 0.0 | 1.4 | -15.9 | 4 | J |
| 10 | 473 | 27.7 | 142 | J | 16.3 | -28 | 95 | -1.2 | 7.7 | -13.5 | 5 | J |
| 11 | 474 | 17.1 | 75 | J | 18.8 | -35 | 105 | -3.9 | 6.5 | -16.8 | 4 | J |
| 12 | 449 | 25.4 | 122 | J | 15.1 | -54 | 88 | 0.2 | 0.4 | -7.4 | 13 | J |
| 13 | 462 | 25.6 | 166 | J | 16.2 | -82 | 118 | -0.8 | -5.2 | -11.1 | 11 | J |
| 14 | 487 | 18.6 | 137 | J | 18.6 | -57 | 105 | -2.4 | 0.5 | -16.5 | 8 | J |
| 15 | 528 | 33.1 | 160 | J | 14.5 | -33 | 115 | -4.2 | 5.0 | -10.0 | 9 | J |
| 16 | 546 | 42.4 | 185 | J | 11.7 | 20 | 126 | -6.0 | 9.0 | -0.1 | 5 | J |
| 17 | 548 | 37.7 | 168 | J | 8.6 | 62 | 146 | -2.8 | 4.1 | 5.1 | 5 | J |
| 18 | 564 | 13.5 | 118 | J | 6.9 | 78 | 352 | 1.3 | 1.8 | 5.9 | 3 | J |
| 19 | 567 | 17.5 | 90 | J | 5.5 | 64 | 143 | -1.2 | 1.7 | 2.6 | 4 | J |
| 20 | 530 | 10.1 | 154 | J | 6.8 | 25 | 156 | -4.7 | 2.6 | 1.9 | 4 | J |
| 21 | 541 | 5.2 | 116 | J | 8.0 | -39 | 123 | -3.3 | 4.0 | -5.8 | 2 | J |
| 22 | 520 | 5.5 | 94 | J | 7.2 | -16 | 135 | -4.2 | 3.8 | -2.4 | 4 | J |
| 23 | 547 | 6.5 | 194 | J | 6.4 | -32 | 162 | -4.8 | 1.0 | -3.4 | 2 | J |
| 24 | 555 | 6.9 | 160 | J | 6.2 | -46 | 172 | -3.6 | -0.2 | -3.8 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 545 | 6.3 | 148 | L | 6.4 | 44 | 141 | -0.5 | 0.5 | 0.5 | 6 | J |
| 2 | 565 | 5.2 | 82 | J | 6.4 | -41 | 223 | -3.3 | -3.9 | -3.1 | 2 | J |
| 3 | 555 | 5.3 | 98 | J | 6.1 | -16 | 199 | -4.7 | -2.0 | -0.9 | 3 | J |
| 4 | 565 | 5.8 | 87 | J | 6.9 | -51 | 170 | -4.1 | -0.9 | -5.1 | 2 | J |
| 5 | 564 | 5.4 | 69 | J | 6.5 | -47 | 161 | -4.0 | -0.3 | -4.7 | 2 | J |
| 6 | 551 | 5.1 | 66 | J | 6.9 | -8 | 174 | -6.3 | 0.2 | -1.1 | 2 | J |
| 7 | 547 | 4.7 | 76 | J | 6.2 | -2 | 174 | -5.9 | 0.5 | -0.5 | 2 | J |
| 8 | 535 | 4.7 | 78 | J | 6.7 | -2 | 165 | -6.2 | 1.3 | -1.0 | 2 | J |
| 9 | 531 | 5.1 | 87 | J | 7.3 | 7 | 169 | -6.4 | 1.5 | 0.0 | 3 | J |
| 10 | 527 | 5.1 | 112 | J | 7.4 | -12 | 172 | -6.9 | 0.0 | -1.8 | 2 | J |
| 11 | 550 | 5.4 | 99 | J | 7.4 | -15 | 131 | -4.3 | 3.2 | -4.2 | 3 | J |
| 12 | 524 | 5.1 | 86 | J | 7.6 | -11 | 156 | -6.2 | 1.6 | -2.6 | 3 | J |
| 13 | 539 | 5.9 | 104 | J | 7.6 | -10 | 138 | -5.2 | 3.3 | -3.5 | 3 | J |
| 14 | 537 | 5.2 | 112 | J | 7.3 | 0 | 136 | -4.1 | 3.4 | -2.0 | 5 | J |
| 15 | 535 | 5.8 | 178 | J | 7.3 | 27 | 136 | -3.9 | 4.6 | 0.7 | 4 | J |
| 16 | 539 | 5.6 | 135 | J | 6.9 | 21 | 129 | -3.2 | 4.4 | 0.1 | 4 | J |
| 17 | 549 | 5.7 | 150 | J | 7.1 | 4 | 122 | -3.2 | 4.9 | -1.6 | 4 | J |
| 18 | 510 | 4.9 | 77 | J | 7.5 | 1 | 105 | -1.8 | 6.3 | -2.1 | 3 | J |
| 19 | 514 | 6.3 | 115 | J | 7.2 | 11 | 108 | -1.9 | 5.8 | -0.5 | 4 | J |
| 20 | 508 | 6.6 | 95 | J | 7.5 | 38 | 110 | -2.0 | 6.3 | 3.1 | 2 | J |
| 21 | 467 | 4.9 | 79 | C | 7.3 | -27 | 133 | -4.4 | 3.9 | -4.2 | 1 | J |
| 22 | 479 | 5.3 | 68 | C | 7.2 | 17 | 134 | -4.3 | 4.7 | 1.1 | 3 | J |
| 23 | 474 | 6.2 | 91 | J | 7.3 | 8 | 118 | -3.1 | 5.9 | -0.1 | 3 | J |
| 24 | 499 | 5.3 | 66 | C | 6.8 | 14 | 130 | -3.7 | 4.6 | 0.6 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 503 | 6.9 | 91 | J | 6.4 | -29 | 127 | -2.7 | 3.1 | -3.2 | 4 | J |
| 2 | 496 | 6.9 | 98 | J | 6.1 | 4 | 140 | -3.3 | 2.8 | -0.3 | 4 | J |
| 3 | 505 | 5.5 | 132 | A | 6.7 | 26 | 115 | -2.3 | 5.6 | 1.2 | 2 | C |
| 4 | 505 | 5.7 | 136 | A | 6.5 | -54 | 229 | -2.0 | -3.5 | -3.3 | 4 | J |
| 5 | 495 | 7.3 | 87 | J | 6.2 | -29 | 188 | -4.4 | -1.5 | -2.1 | 3 | J |
| 6 | 499 | 6.0 | 142 | A | 6.4 | 3 | 155 | -4.4 | 2.0 | -0.6 | 4 | J |
| 7 | 503 | 6.0 | 68 | J | 7.3 | 11 | 117 | -2.8 | 5.5 | -1.4 | 4 | J |
| 8 | 482 | 6.2 | 96 | J | 7.8 | -3 | 145 | -6.1 | 3.5 | -2.5 | 2 | J |
| 9 | 475 | 5.3 | 122 | J | 7.8 | -3 | 146 | -6.0 | 3.3 | -2.4 | 2 | C |
| 10 | 525 | 5.9 | 207 | J | 6.8 | -9 | 132 | -4.3 | 3.5 | -3.4 | 2 | C |
| 11 | 538 | 5.5 | 206 | J | 7.5 | -13 | 126 | -4.1 | 3.9 | -4.5 | 2 | J |
| 12 | 513 | 5.8 | 130 | J | 6.6 | 11 | 179 | -5.6 | 0.7 | 0.9 | 3 | J |
| 13 | 523 | 6.2 | 179 | J | 7.2 | -22 | 163 | -4.9 | 0.2 | -2.5 | 5 | J |
| 14 | 511 | 5.0 | 66 | J | 8.1 | -14 | 137 | -5.6 | 3.5 | -4.3 | 2 | J |
| 15 | 506 | 5.7 | 57 | J | 7.8 | 1 | 150 | -4.6 | 2.4 | -1.2 | 6 | J |
| 16 | 549 | 5.0 | 188 | A | 7.6 | -21 | 120 | -3.3 | 4.1 | -4.8 | 3 | J |
| 17 | 544 | 4.9 | 117 | C | 7.9 | -5 | 123 | -4.1 | 5.6 | -3.0 | 2 | J |
| 18 | 526 | 4.5 | 106 | C | 8.2 | -21 | 134 | -4.7 | 3.7 | -4.0 | 4 | J |
| 19 | 541 | 5.0 | 98 | J | 8.5 | 14 | 139 | -5.9 | 5.5 | 0.4 | 2 | J |
| 20 | 576 | 5.7 | 165 | J | 7.4 | -39 | 137 | -3.6 | 2.3 | -4.7 | 4 | J |
| 21 | 569 | 5.9 | 128 | J | 7.5 | -37 | 155 | -4.9 | 1.4 | -4.5 | 3 | J |
| 22 | 548 | 5.2 | 89 | J | 7.1 | 28 | 163 | -5.6 | 2.2 | 2.7 | 3 | J |
| 23 | 566 | 5.6 | 108 | J | 6.9 | -25 | 151 | -4.8 | 2.1 | -3.0 | 3 | J |
| 24 | 595 | 5.7 | 184 | J | 6.6 | -49 | 135 | -2.6 | 1.8 | -4.6 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 537 | 3.6 | 96 | C | 6.5 | -12 | 152 | -4.3 | 2.0 | -1.5 | 3 | C |
| 2 | 565 | 4.3 | 191 | A | 6.7 | 30 | 149 | -3.9 | 2.9 | 2.1 | 3 | C |
| 3 | 566 | 3.9 | 183 | A | 6.9 | 6 | 115 | -2.5 | 5.2 | -0.8 | 3 | C |
| 4 | 570 | 4.1 | 153 | A | 7.3 | 35 | 114 | -2.1 | 5.6 | 1.9 | 3 | C |
| 5 | 566 | 4.1 | 161 | A | 7.5 | 9 | 111 | -2.4 | 6.4 | -1.3 | 0 | C |
| 6 | 578 | 4.2 | 159 | A | 6.9 | 49 | 117 | -1.5 | 4.2 | 2.3 | 4 | C |
| 7 | 551 | 4.2 | 149 | A | 7.1 | 0 | 135 | -4.3 | 3.8 | -2.0 | 3 | C |
| 8 | 545 | 4.2 | 154 | A | 7.0 | -7 | 143 | -5.1 | 3.0 | -2.6 | 2 | C |
| 9 | 566 | 4.1 | 107 | C | 7.2 | -12 | 121 | -3.5 | 4.2 | -4.3 | 1 | C |
| 10 |  |  |  |  | 6.2 | -13 | 38 | 4.7 | 2.3 | -3.1 | 1 | J |
| 11 |  |  |  |  | 6.2 | -18 | 186 | -4.8 | -1.3 | -1.0 | 3 | J |
| 12 |  |  |  |  | 6.4 | -25 | 106 | -1.5 | 3.0 | -5.1 | 2 | J |
| 13 |  |  |  |  | 5.7 | 17 | 129 | -2.7 | 3.5 | -0.7 | 4 | J |
| 14 | 643 | 4.7 | 138 | C | 5.9 | 1 | 155 | -4.4 | 1.8 | -1.0 | 3 | J |
| 15 |  |  |  |  | 4.8 | -64 | 193 | -1.7 | -2.1 | -3.0 | 3 | J |
| 16 |  |  |  |  | 5.6 | -59 | 137 | -1.7 | -0.3 | -4.3 | 3 | C |
| 17 |  |  |  |  | 5.3 | -35 | 142 | -2.6 | 1.0 | -2.9 | 3 | C |
| 18 |  |  |  |  | 6.3 | -3 | 134 | -3.5 | 3.4 | -1.5 | 3 | C |
| 19 |  |  |  |  | 6.2 | 1 | 131 | -3.3 | 3.7 | -0.9 | 3 | C |
| 20 |  |  |  |  | 5.8 | -1 | 129 | -2.9 | 3.5 | -1.0 | 3 | C |
| 21 |  |  |  |  | 5.8 | -4 | 125 | -2.8 | 3.8 | -1.2 | 2 | C |
| 22 |  |  |  |  | 5.7 | 39 | 136 | -2.1 | 2.5 | 1.9 | 4 | C |
| 23 |  |  |  |  | 5.7 | 33 | 142 | -3.6 | 3.3 | 2.5 | 1 | C |
| 24 |  |  |  |  | 5.9 | -1 | 126 | -3.1 | 4.2 | -0.9 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 6.0 | 14 | 140 | -3.8 | 3.4 | 0.6 | 3 | C |
| 2 | 574 | 3.6 | 158 | A | 6.0 | 4 | 134 | -2.9 | 3.0 | -0.5 | 4 | C |
| 3 | 571 | 3.3 | 126 | A | 6.0 | 20 | 115 | -2.1 | 4.8 | 0.5 | 2 | C |
| 4 | 567 | 3.7 | 127 | A | | | | | | | | |
| 5 | 589 | 3.7 | 133 | A | | | | | | | | |
| 6 | 603 | 4.1 | 181 | A | 5.1 | 27 | 113 | -1.6 | 4.4 | 0.3 | 1 | C |
| 7 | 592 | 3.9 | 175 | A | 4.9 | -72 | 200 | -1.2 | -2.3 | -3.4 | 2 | J |
| 8 | 601 | 4.0 | 181 | A | 4.0 | -25 | 127 | -1.8 | 1.4 | -2.4 | 2 | J |
| 9 | 587 | 4.5 | 148 | J | 3.9 | -7 | 161 | -2.5 | 0.6 | -0.7 | 3 | J |
| 10 | | | | | 4.2 | -59 | 143 | -1.1 | -0.6 | -2.4 | 3 | J |
| 11 | 604 | 3.8 | 121 | J | 4.8 | 1 | 107 | -1.3 | 3.5 | -2.3 | 2 | J |
| 12 | 602 | 3.8 | 110 | J | 4.7 | 13 | 102 | -0.7 | 3.4 | -1.2 | 3 | J |
| 13 | 603 | 3.2 | 152 | A | 4.7 | 18 | 82 | 0.6 | 4.3 | -1.1 | 2 | J |
| 14 | 578 | 3.2 | 147 | A | 4.4 | 19 | 123 | -2.0 | 3.4 | -0.5 | 1 | C |
| 15 | 587 | 3.3 | 133 | A | 4.2 | -1 | 139 | -2.3 | 1.8 | -1.0 | 2 | C |
| 16 | 574 | 3.3 | 117 | A | 4.5 | 20 | 135 | -2.6 | 2.9 | 0.1 | 2 | C |
| 17 | 578 | 3.2 | 109 | A | 4.5 | 23 | 159 | -3.6 | 1.9 | 1.0 | 2 | C |
| 18 | 557 | 3.3 | 97 | A | 4.7 | 24 | 142 | -3.2 | 3.0 | 0.9 | 1 | C |
| 19 | 549 | 3.5 | 109 | A | | | | | | | | |
| 20 | 554 | 3.6 | 109 | A | | | | | | | | |
| 21 | 541 | 3.7 | 123 | A | | | | | | | | |
| 22 | 484 | 0.0 | 0 | H | 4.4 | 31 | 181 | -3.5 | 0.3 | 2.1 | 2 | J |
| 23 | 543 | 3.6 | 122 | A | 4.6 | 15 | 185 | -4.4 | -0.2 | 1.2 | 0 | J |
| 24 | 537 | 3.6 | 128 | A | 4.7 | -56 | 129 | -1.1 | 0.8 | -2.7 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 554 | 4.5 | 103 | J | 4.5 | 6 | 245 | -1.8 | -3.7 | 1.2 | 1 | J |
| 2 | 546 | 4.7 | 115 | J | 4.5 | 21 | 207 | -2.8 | -1.1 | 1.5 | 3 | J |
| 3 | 542 | 4.6 | 105 | J | 4.5 | 13 | 213 | -3.0 | -1.7 | 1.3 | 2 | J |
| 4 | 527 | 3.6 | 133 | A | 4.6 | 16 | 202 | -3.1 | -0.9 | 1.3 | 2 | C |
| 5 | 520 | 3.5 | 128 | A | 4.6 | -7 | 184 | -3.6 | -0.4 | -0.3 | 2 | C |
| 6 | 501 | 0.0 | 0 | H | 4.5 | -24 | 144 | -2.0 | 0.9 | -1.6 | 3 | C |
| 7 | 562 | 4.2 | 86 | J | 4.3 | -39 | 95 | -0.2 | 1.4 | -3.2 | 2 | J |
| 8 | 561 | 4.3 | 112 | J | 3.7 | -59 | 174 | -1.3 | -1.0 | -2.0 | 3 | J |
| 9 | 561 | 4.3 | 102 | J | 4.0 | 11 | 110 | -0.9 | 2.4 | -0.9 | 3 | J |
| 10 | 500 | 0.0 | 0 | H | 4.1 | 11 | 95 | -0.3 | 3.7 | -1.5 | 1 | J |
| 11 | 523 | 3.6 | 71 | J | 4.0 | 24 | 118 | -1.4 | 3.0 | -0.4 | 2 | J |
| 12 | 543 | 3.6 | 143 | A | 4.0 | -65 | 164 | -1.5 | -1.5 | -3.1 | 1 | J |
| 13 | 541 | 0.0 | 0 | H | | | | | | | | |
| 14 | 528 | 4.4 | 117 | J | 4.0 | 32 | 154 | -2.3 | 1.8 | 0.8 | 3 | J |
| 15 | 524 | 0.0 | 0 | H | 4.2 | 20 | 185 | -2.9 | 0.3 | 1.1 | 3 | J |
| 16 | 527 | 4.5 | 132 | L | 4.8 | 1 | 220 | -3.4 | -2.5 | 1.2 | 2 | C |
| 17 | 525 | 4.8 | 129 | L | 4.7 | 24 | 204 | -3.5 | -0.8 | 2.2 | 2 | C |
| 18 | 528 | 4.9 | 123 | L | 4.7 | -36 | 212 | -2.7 | -2.4 | -1.6 | 2 | C |
| 19 | 518 | 4.9 | 81 | J | 4.7 | -9 | 115 | -1.9 | 3.7 | -1.8 | 1 | J |
| 20 | 511 | 5.1 | 60 | J | 4.7 | -27 | 147 | -3.1 | 1.5 | -2.3 | 2 | J |
| 21 | 526 | 4.7 | 78 | J | 4.3 | -45 | 130 | -1.5 | 1.3 | -2.7 | 3 | J |
| 22 | 518 | 4.6 | 65 | J | 4.1 | -11 | 123 | -1.9 | 2.7 | -1.2 | 2 | J |
| 23 | 507 | 4.0 | 50 | J | 3.8 | -23 | 181 | -3.2 | -0.3 | -1.3 | 2 | J |
| 24 | 509 | 4.9 | 54 | J | 3.8 | -22 | 166 | -2.8 | 0.5 | -1.3 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 509 | 4.9 | 48 | J | 3.7 | -27 | 182 | -2.8 | -0.4 | -1.4 | 2 | J |
| 2 | 512 | 4.8 | 72 | J | 3.4 | -16 | 180 | -2.6 | -0.2 | -0.7 | 2 | J |
| 3 | 528 | 4.7 | 67 | J | 4.0 | 46 | 87 | 0.1 | 2.8 | 1.6 | 2 | J |
| 4 | 501 | 4.8 | 87 | L | 4.0 | -26 | 165 | -3.1 | 0.3 | -1.8 | 1 | C |
| 5 | 520 | 4.9 | 78 | L | 4.3 | -12 | 137 | -2.5 | 1.9 | -1.6 | 2 | C |
| 6 | 532 | 4.5 | 60 | J | 4.3 | -29 | 80 | 0.6 | 2.3 | -3.2 | 1 | J |
| 7 | 504 | 4.4 | 51 | J | 4.2 | -17 | 135 | -2.5 | 1.7 | -2.1 | 2 | J |
| 8 | 501 | 4.3 | 50 | J | 4.3 | -18 | 134 | -2.0 | 1.4 | -1.9 | 3 | J |
| 9 | 490 | 4.5 | 71 | J | 4.1 | 35 | 190 | -3.3 | 0.7 | 2.3 | 1 | J |
| 10 | 484 | 4.1 | 65 | J | 4.2 | 0 | 143 | -3.2 | 2.0 | -1.3 | 1 | J |
| 11 | 488 | 4.4 | 68 | J | 4.3 | 2 | 140 | -2.8 | 2.0 | -1.2 | 2 | J |
| 12 | 480 | 4.1 | 68 | J | 4.3 | -2 | 164 | -3.5 | 0.8 | -0.7 | 2 | J |
| 13 | 462 | 3.3 | 38 | J | 4.2 | -4 | 156 | -2.9 | 1.0 | -0.9 | 3 | J |
| 14 | 512 | 4.8 | 64 | J | 3.9 | 41 | 129 | -1.0 | 1.8 | 0.5 | 3 | J |
| 15 | 466 | 4.3 | 58 | J | 4.1 | -18 | 161 | -3.1 | 0.4 | -1.5 | 2 | J |
| 16 | 462 | 4.2 | 49 | J | 4.1 | 9 | 138 | -2.7 | 2.5 | -0.5 | 2 | J |
| 17 | 466 | 4.1 | 52 | J | 4.1 | 26 | 141 | -2.4 | 2.4 | 0.7 | 2 | J |
| 18 | 462 | 3.8 | 34 | J | 3.9 | -14 | 158 | -3.1 | 0.9 | -1.2 | 2 | J |
| 19 | 457 | 3.8 | 41 | J | 3.9 | -7 | 166 | -3.2 | 0.6 | -0.6 | 2 | J |
| 20 | 461 | 4.2 | 55 | J | 3.8 | -1 | 138 | -2.2 | 1.9 | -0.5 | 2 | J |
| 21 | 450 | 3.7 | 44 | J | 3.9 | 13 | 176 | -3.7 | 0.4 | 0.8 | 1 | J |
| 22 | 469 | 4.2 | 48 | J | 3.7 | 21 | 93 | -0.2 | 3.2 | 0.6 | 2 | J |
| 23 | 467 | 4.8 | 59 | J | 3.4 | 16 | 93 | -0.1 | 2.7 | 0.2 | 2 | J |
| 24 | 474 | 4.4 | 54 | J | 3.1 | 4 | 78 | 0.4 | 1.8 | -0.2 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 469 | 4.7 | 50 | J | 3.3 | -35 | 127 | -1.4 | 1.5 | -2.0 | 1 | C |
| 2 | 430 | 4.5 | 67 | J | 3.2 | 5 | 133 | -1.8 | 2.0 | -0.2 | 2 | J |
| 3 | 425 | 4.0 | 60 | L | 3.3 | -16 | 132 | -1.7 | 1.6 | -1.2 | 2 | J |
| 4 | 434 | 4.6 | 63 | L | 3.5 | 13 | 125 | -1.6 | 2.3 | -0.1 | 1 | C |
| 5 | 421 | 4.3 | 62 | L | 3.9 | 22 | 136 | -2.0 | 2.2 | 0.3 | 2 | C |
| 6 | 445 | 5.1 | 59 | L | 4.1 | 8 | 106 | -1.0 | 3.3 | -1.0 | 2 | C |
| 7 | 422 | 4.9 | 33 | J | 4.1 | -29 | 142 | -2.6 | 0.9 | -2.5 | 2 | J |
| 8 | 422 | 4.9 | 46 | J | 3.8 | -26 | 150 | -2.5 | 0.5 | -1.9 | 2 | J |
| 9 | 416 | 5.0 | 33 | J | 4.3 | 18 | 144 | -2.5 | 2.1 | -0.1 | 3 | J |
| 10 | 410 | 5.1 | 28 | J | 4.2 | 15 | 134 | -2.5 | 2.7 | -0.6 | 2 | J |
| 11 | 412 | 5.0 | 31 | J | 3.9 | -13 | 145 | -3.0 | 1.3 | -1.9 | 1 | J |
| 12 | 411 | 5.2 | 36 | J | 3.9 | 15 | 124 | -1.7 | 2.6 | -0.7 | 2 | J |
| 13 | 407 | 4.8 | 30 | J | 4.1 | 17 | 106 | -1.0 | 3.4 | -0.9 | 2 | J |
| 14 | 407 | 5.1 | 25 | J | 4.1 | 7 | 98 | -0.5 | 3.4 | -1.5 | 2 | J |
| 15 | 387 | 5.5 | 46 | J | 4.2 | -5 | 133 | -2.7 | 2.4 | -1.7 | 1 | J |
| 16 | 390 | 5.3 | 30 | J | 4.1 | -10 | 118 | -1.8 | 2.8 | -2.1 | 1 | J |
| 17 | 381 | 5.5 | 26 | J | 4.1 | -18 | 169 | -3.3 | 0.2 | -1.2 | 2 | J |
| 18 | 390 | 5.7 | 33 | J | 4.0 | -47 | 199 | -2.4 | -1.7 | -2.3 | 1 | J |
| 19 | 381 | 5.9 | 29 | J | 3.8 | -41 | 169 | -2.6 | -0.2 | -2.3 | 2 | J |
| 20 | 381 | 6.6 | 27 | J | 4.2 | -11 | 103 | -0.8 | 3.2 | -1.5 | 2 | C |
| 21 | 383 | 6.2 | 25 | J | 4.0 | -3 | 104 | -0.8 | 3.2 | -0.9 | 2 | J |
| 22 | 376 | 6.6 | 28 | J | 4.0 | 3 | 113 | -1.3 | 3.1 | -0.4 | 2 | J |
| 23 | 369 | 6.6 | 26 | J | 4.1 | -7 | 142 | -3.1 | 2.2 | -0.9 | 1 | J |
| 24 | 373 | 7.0 | 26 | J | 4.4 | -5 | 118 | -1.8 | 3.2 | -1.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 6.7 | 32 | J | 4.2 | -11 | 125 | -1.9 | 2.5 | -1.2 | 3 | J |
| 2 | 354 | 7.0 | 47 | J | 4.3 | 1 | 156 | -3.8 | 1.7 | -0.3 | 1 | J |
| 3 | 363 | 6.8 | 21 | J | 4.7 | 12 | 99 | -0.7 | 4.2 | -0.3 | 2 | J |
| 4 | 355 | 6.4 | 22 | J | 4.8 | 6 | 111 | -1.5 | 3.9 | -0.9 | 2 | J |
| 5 | 352 | 7.3 | 26 | C | 4.6 | 13 | 58 | 1.7 | 2.8 | -0.3 | 3 | J |
| 6 | 353 | 7.6 | 23 | C | 4.6 | 16 | 117 | -1.9 | 3.9 | -0.5 | 1 | C |
| 7 | 348 | 7.6 | 23 | C | 4.9 | 15 | 97 | -0.5 | 4.6 | -1.1 | 1 | C |
| 8 | 349 | 7.5 | 36 | L | 4.9 | 18 | 112 | -1.7 | 4.4 | -0.8 | 1 | C |
| 9 | 346 | 7.8 | 38 | L | 4.8 | 28 | 116 | -1.8 | 4.3 | -0.1 | 1 | C |
| 10 | 345 | 7.4 | 42 | L | 4.6 | 23 | 135 | -2.9 | 3.4 | -0.1 | 1 | C |
| 11 | 340 | 8.8 | 27 | C | 4.6 | 21 | 140 | -3.2 | 3.1 | -0.1 | 1 | C |
| 12 | 340 | 8.8 | 27 | C | 4.3 | 4 | 134 | -2.8 | 2.6 | -1.4 | 1 | C |
| 13 | 343 | 8.1 | 25 | C | 4.2 | 5 | 102 | -0.7 | 2.9 | -1.5 | 2 | C |
| 14 | 349 | 8.5 | 21 | C | 4.4 | 1 | 73 | 1.2 | 3.5 | -2.0 | 1 | C |
| 15 | | | | | | | | | | | | |
| 16 | 340 | 9.0 | 22 | C | 4.4 | -19 | 81 | 0.7 | 3.0 | -3.1 | 0 | C |
| 17 | 336 | 9.1 | 21 | C | 4.6 | -5 | 100 | -0.8 | 3.6 | -1.9 | 2 | C |
| 18 | | | | | 4.7 | 15 | 131 | -2.7 | 3.3 | -0.1 | 2 | C |
| 19 | 332 | 9.2 | 21 | C | 4.2 | 22 | 131 | -2.0 | 2.6 | 0.5 | 2 | C |
| 20 | 372 | 15.4 | 46 | C | 6.7 | 18 | 119 | -2.8 | 5.4 | 0.5 | 2 | C |
| 21 | 370 | 18.5 | 40 | C | 6.5 | 11 | 100 | -1.0 | 5.7 | -0.2 | 3 | C |
| 22 | 376 | 18.7 | 28 | C | 8.5 | 17 | 87 | 0.5 | 8.0 | 0.8 | 3 | C |
| 23 | 364 | 19.9 | 49 | A | | | | | | | | |
| 24 | 367 | 23.1 | 50 | A | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 357 | 23.8 | 22 | C | 9.2 | 29 | 86 | 0.5 | 8.5 | 2.5 | 2 | C |
| 2 | 362 | 30.5 | 22 | C | 8.7 | 22 | 87 | 0.3 | 8.3 | 1.2 | 2 | C |
| 3 | 366 | 33.9 | 23 | C | 11.2 | 22 | 106 | -2.6 | 10.0 | 1.0 | 4 | C |
| 4 | 408 | 36.9 | 23 | L | 13.9 | 33 | 90 | 0.0 | 10.8 | 2.7 | 8 | C |
| 5 | 406 | 36.9 | 27 | L | 12.8 | 31 | 81 | 1.6 | 11.9 | 1.9 | 4 | C |
| 6 | 421 | 9.4 | 76 | C | 14.6 | -22 | 170 | -13.1 | -0.2 | -5.7 | 2 | C |
| 7 | 413 | 12.3 | 124 | L | 15.0 | -13 | 158 | -13.5 | 3.2 | -5.4 | 1 | C |
| 8 | 405 | 13.0 | 89 | L | 13.9 | -3 | 151 | -12.0 | 5.4 | -3.8 | 2 | C |
| 9 | 411 | 15.2 | 58 | L | 12.6 | -30 | 150 | -9.0 | 1.2 | -7.8 | 4 | C |
| 10 | 427 | 7.8 | 180 | L | 10.1 | -12 | 142 | -7.5 | 3.8 | -5.0 | 2 | C |
| 11 | 427 | 6.2 | 266 | L | 7.6 | 21 | 119 | -2.5 | 4.9 | -0.9 | 4 | C |
| 12 | 449 | 5.0 | 245 | A | 8.8 | -1 | 113 | -3.2 | 6.2 | -4.3 | 3 | C |
| 13 | 451 | 4.0 | 133 | C | 8.7 | 33 | 100 | -1.3 | 8.2 | 0.0 | 2 | C |
| 14 | 437 | 4.1 | 140 | C | 7.6 | 44 | 90 | 0.0 | 7.0 | 1.6 | 2 | C |
| 15 | 441 | 3.2 | 189 | L | | | | | | | | |
| 16 | 457 | 4.2 | 196 | L | 5.1 | 74 | 86 | 0.1 | 3.4 | 3.7 | 1 | C |
| 17 | 471 | 3.4 | 162 | L | 5.8 | 49 | 145 | -3.0 | 3.6 | 3.1 | 1 | C |
| 18 | 474 | 2.8 | 163 | L | 5.1 | 25 | 141 | -2.1 | 2.0 | 0.6 | 3 | C |
| 19 | 463 | 3.6 | 123 | L | | | | | | | | |
| 20 | 452 | 3.4 | 111 | A | | | | | | | | |
| 21 | 432 | 4.1 | 113 | L | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 417 | 4.1 | 107 | A | | | | | | | | |
| 24 | 422 | 4.1 | 54 | C | 4.2 | 53 | 142 | -1.7 | 1.9 | 2.6 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 418 | 4.3 | 54 | C | 3.8 | 51 | 108 | -0.6 | 2.6 | 2.1 | 1 | C |
| 2 | 414 | 5.0 | 57 | C | 3.5 | 37 | 120 | -1.3 | 2.6 | 1.3 | 1 | C |
| 3 | 410 | 5.8 | 48 | C | 3.7 | 33 | 85 | 0.3 | 3.5 | 1.0 | 1 | C |
| 4 | 400 | 6.5 | 66 | L | 3.7 | 10 | 124 | -1.9 | 2.9 | -0.4 | 1 | C |
| 5 | 400 | 6.8 | 65 | L | 4.0 | 13 | 149 | -3.0 | 2.0 | 0.1 | 1 | C |
| 6 | 400 | 6.1 | 73 | L | 3.8 | 39 | 150 | -1.8 | 1.6 | 1.1 | 2 | C |
| 7 | 408 | 6.2 | 41 | C | 3.2 | 60 | 7 | 1.3 | 1.3 | 2.0 | 1 | C |
| 8 | 409 | 6.3 | 35 | C | 3.2 | 45 | 44 | 1.5 | 2.3 | 1.1 | 1 | C |
| 9 | 410 | 6.5 | 42 | C | 3.3 | 19 | 23 | 2.8 | 1.6 | 0.2 | 1 | C |
| 10 | 404 | 6.1 | 37 | C | 3.2 | 11 | 11 | 2.9 | 0.8 | 0.2 | 1 | C |
| 11 | 402 | 5.8 | 46 | C | 3.0 | -2 | 97 | -0.2 | 1.1 | -0.8 | 2 | C |
| 12 | 414 | 5.2 | 47 | C | 3.3 | 54 | 161 | -0.7 | 0.8 | 0.7 | 3 | C |
| 13 | 410 | 6.2 | 75 | L | 3.5 | -2 | 250 | -1.1 | -2.6 | 1.6 | 1 | C |
| 14 | 418 | 6.3 | 75 | L | 2.2 | 24 | 263 | -0.1 | -0.7 | 1.1 | 2 | C |
| 15 | 376 | 5.4 | 49 | C | 4.3 | 5 | 175 | -4.1 | 0.5 | 0.1 | 1 | C |
| 16 | 373 | 6.7 | 54 | L | 4.9 | 0 | 166 | -4.4 | 1.0 | -0.5 | 2 | C |
| 17 | 380 | 7.4 | 49 | L | 5.2 | -10 | 170 | -4.9 | 0.5 | -1.1 | 1 | C |
| 18 | 362 | 6.6 | 38 | C | 5.5 | -22 | 176 | -5.0 | -0.4 | -2.0 | 1 | C |
| 19 | 364 | 6.5 | 44 | C | 5.2 | -28 | 165 | -4.3 | 0.4 | -2.5 | 1 | C |
| 20 | 399 | 10.7 | 75 | L | 4.8 | -10 | 163 | -4.3 | 1.1 | -1.1 | 1 | C |
| 21 | 425 | 14.6 | 112 | L | 5.0 | 51 | 124 | -1.6 | 3.0 | 2.8 | 2 | C |
| 22 | 435 | 17.9 | 116 | L | 7.4 | 36 | 140 | -3.8 | 3.8 | 2.8 | 4 | C |
| 23 | 405 | 12.7 | 55 | C | 11.5 | 35 | 162 | -8.4 | 4.0 | 5.6 | 4 | C |
| 24 | 396 | 11.7 | 45 | C | 13.8 | -34 | 140 | -8.4 | 5.5 | -8.8 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 7.8 | 30 | C | 14.9 | -41 | 126 | -6.3 | 6.5 | -11.0 | 1 | C |
| 2 | 410 | 7.7 | 35 | L | 13.6 | -34 | 122 | -5.9 | 7.4 | -9.6 | 1 | C |
| 3 | 396 | 8.6 | 35 | C | 13.1 | -34 | 119 | -5.3 | 6.9 | -9.6 | 1 | C |
| 4 | 387 | 11.0 | 36 | C | 12.1 | -49 | 114 | -3.2 | 3.8 | -10.9 | 1 | C |
| 5 | 409 | 7.9 | 206 | L | 11.4 | -10 | 109 | -3.4 | 8.2 | -5.3 | 4 | C |
| 6 | 401 | 8.7 | 167 | C | 9.5 | 36 | 103 | -1.7 | 9.0 | 1.8 | 1 | C |
| 7 | 380 | 9.9 | 152 | C | 9.8 | 12 | 103 | -1.8 | 7.5 | -2.1 | 5 | C |
| 8 | 388 | 11.7 | 112 | C | 9.5 | 44 | 142 | -5.3 | 6.8 | 3.5 | 2 | C |
| 9 | 388 | 9.5 | 88 | C | 10.4 | 48 | 142 | -5.3 | 7.6 | 4.2 | 2 | C |
| 10 | 387 | 9.7 | 67 | C | 11.1 | 60 | 172 | -5.3 | 5.8 | 7.4 | 2 | C |
| 11 | 383 | 10.4 | 80 | C | 9.3 | 58 | 171 | -4.2 | 4.4 | 5.3 | 5 | C |
| 12 | 403 | 14.7 | 46 | C | 8.4 | 37 | 238 | -3.5 | -1.9 | 7.3 | 1 | C |
| 13 | 409 | 0.0 | 0 | H | 7.9 | 32 | 248 | -2.5 | -2.9 | 6.7 | 1 | C |
| 14 | 454 | 12.6 | 59 | C | 6.6 | 39 | 242 | -2.4 | -1.7 | 5.8 | 1 | C |
| 15 | 398 | 16.3 | 46 | L | 5.8 | 44 | 241 | -2.0 | -1.2 | 5.2 | 1 | C |
| 16 | 397 | 14.0 | 46 | L | 7.0 | 35 | 242 | -2.7 | -2.7 | 5.8 | 1 | C |
| 17 | 386 | 11.5 | 39 | C | 6.9 | 22 | 258 | -1.3 | -4.5 | 4.7 | 2 | C |
| 18 | 387 | 12.7 | 45 | L | 7.0 | 23 | 248 | -2.3 | -4.5 | 4.4 | 2 | C |
| 19 | 386 | 11.3 | 36 | L | 7.3 | 33 | 249 | -2.2 | -4.2 | 5.4 | 1 | C |
| 20 | 383 | 10.9 | 35 | L | 8.3 | 32 | 249 | -2.5 | -5.1 | 5.9 | 2 | C |
| 21 | 421 | 11.0 | 54 | L | 12.7 | 32 | 260 | -2.0 | -8.9 | 8.9 | 1 | C |
| 22 | 429 | 10.9 | 66 | L | 14.1 | 34 | 255 | -2.9 | -8.7 | 9.2 | 5 | C |
| 23 | 446 | 8.9 | 148 | L | 14.2 | 54 | 222 | -6.3 | -3.2 | 12.2 | 0 | C |
| 24 | 439 | 7.9 | 165 | L | 14.4 | 71 | 143 | -3.7 | 5.5 | 12.7 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 422 | 7.2 | 156 | L | 13.1 | 72 | 214 | -2.4 | 0.4 | 9.2 | 9 | C |
| 2 | 464 | 6.6 | 237 | L | 13.3 | 77 | 34 | 1.6 | 3.2 | 8.0 | 10 | C |
| 3 | 471 | 10.2 | 118 | C | 12.3 | 42 | 66 | 3.4 | 9.5 | 4.9 | 5 | C |
| 4 | 485 | 26.7 | 69 | J | 8.9 | 53 | 316 | 3.5 | -1.0 | 7.1 | 4 | J |
| 5 | 479 | 26.7 | 59 | J | 7.3 | 69 | 297 | 0.9 | 0.4 | 5.6 | 5 | J |
| 6 | 482 | 21.3 | 57 | J | 6.8 | 72 | 316 | 0.4 | 0.4 | 2.2 | 6 | J |
| 7 | 492 | 23.2 | 67 | J | 5.9 | -5 | 186 | -3.5 | -0.5 | -0.1 | 5 | J |
| 8 | 487 | 15.7 | 61 | J | 6.0 | -34 | 147 | -3.8 | 0.6 | -3.8 | 3 | J |
| 9 | 478 | 13.5 | 52 | J | 6.1 | -23 | 114 | -1.6 | 2.1 | -3.3 | 4 | J |
| 10 | 480 | 10.1 | 52 | J | 6.1 | -42 | 77 | 1.0 | 1.3 | -5.5 | 2 | J |
| 11 | 479 | 9.5 | 51 | J | 5.7 | -67 | 143 | -1.7 | -1.8 | -4.9 | 2 | J |
| 12 | 480 | 7.2 | 57 | J | 6.2 | -62 | 172 | -2.8 | -2.6 | -4.6 | 2 | J |
| 13 | 465 | 6.4 | 56 | J | 6.9 | -61 | 174 | -3.3 | -3.0 | -5.2 | 1 | J |
| 14 | 476 | 8.3 | 55 | J | 8.0 | -39 | 176 | -4.4 | -1.6 | -3.2 | 6 | J |
| 15 | 484 | 4.9 | 44 | J | 7.8 | 20 | 143 | -5.6 | 4.9 | 0.2 | 2 | J |
| 16 | 479 | 6.7 | 33 | J | 7.2 | -35 | 130 | -3.7 | 2.2 | -5.5 | 2 | J |
| 17 | 459 | 8.7 | 35 | J | 6.6 | -33 | 131 | -3.4 | 2.3 | -4.7 | 2 | J |
| 18 | 467 | 9.4 | 40 | J | 6.3 | -22 | 131 | -3.6 | 3.2 | -3.6 | 2 | J |
| 19 | 462 | 8.9 | 45 | J | 6.6 | -1 | 135 | -4.3 | 4.1 | -1.4 | 2 | J |
| 20 | 459 | 8.1 | 42 | J | 6.5 | -2 | 139 | -4.4 | 3.6 | -1.2 | 3 | J |
| 21 | 451 | 8.5 | 37 | J | 6.0 | -12 | 145 | -4.6 | 2.8 | -1.9 | 2 | J |
| 22 | 438 | 7.9 | 39 | J | 6.0 | 1 | 130 | -3.5 | 4.1 | -0.8 | 3 | J |
| 23 | 460 | 9.4 | 38 | J | 6.4 | -45 | 198 | -4.2 | -2.2 | -4.0 | 1 | J |
| 24 | 440 | 7.7 | 31 | C | 6.2 | -38 | 222 | -3.6 | -4.0 | -3.1 | 0 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 449 | 11.7 | 28 | J | 3.0 | 75 | 353 | 0.8 | 0.6 | 2.8 | 1 | J |
| 2 | 480 | 19.7 | 26 | J | 8.9 | 59 | 302 | 2.3 | -1.8 | 8.0 | 3 | J |
| 3 | 483 | 19.9 | 27 | J | 9.9 | 55 | 300 | 2.8 | -2.3 | 9.0 | 2 | J |
| 4 | 470 | 20.3 | 33 | J | 11.1 | 46 | 287 | 2.2 | -4.2 | 9.9 | 1 | J |
| 5 | 463 | 20.3 | 29 | J | 10.5 | 37 | 271 | 0.1 | -5.2 | 8.8 | 3 | J |
| 6 | 463 | 14.4 | 46 | J | 10.8 | 27 | 275 | 0.8 | -6.2 | 8.2 | 3 | J |
| 7 | 449 | 13.2 | 19 | J | 10.3 | 16 | 253 | -2.9 | -7.0 | 7.0 | 1 | J |
| 8 | 450 | 12.1 | 24 | J | 9.7 | 0 | 240 | -4.8 | -7.1 | 4.2 | 2 | J |
| 9 | 450 | 12.9 | 20 | J | 9.4 | -5 | 228 | -6.2 | -6.2 | 3.0 | 1 | J |
| 10 | 443 | 9.7 | 20 | J | 9.5 | -15 | 225 | -6.4 | -6.6 | 1.5 | 2 | J |
| 11 | 449 | 7.5 | 26 | J | 9.8 | -16 | 236 | -5.2 | -7.9 | 2.2 | 1 | J |
| 12 | 455 | 7.8 | 30 | J | 9.5 | -20 | 230 | -5.7 | -7.4 | 1.1 | 1 | J |
| 13 | 451 | 3.8 | 28 | J | 9.7 | -28 | 225 | -6.1 | -7.6 | -0.5 | 1 | J |
| 14 | 456 | 8.7 | 50 | J | 8.5 | -19 | 237 | -4.1 | -6.7 | 1.1 | 3 | J |
| 15 | 450 | 11.7 | 48 | J | 8.5 | 36 | 249 | -2.3 | -3.0 | 7.1 | 3 | J |
| 16 | 442 | 11.6 | 60 | J | 8.5 | -14 | 238 | -4.2 | -6.9 | 1.2 | 2 | J |
| 17 | 433 | 8.8 | 52 | J | 7.9 | 5 | 238 | -4.0 | -5.6 | 3.1 | 2 | J |
| 18 | 427 | 9.0 | 45 | J | 7.6 | 12 | 234 | -4.3 | -5.0 | 3.5 | 2 | J |
| 19 | 426 | 15.1 | 60 | J | 5.4 | 15 | 216 | -4.0 | -2.4 | 2.1 | 2 | J |
| 20 | 421 | 12.7 | 47 | J | 6.2 | 26 | 222 | -4.1 | -2.9 | 3.6 | 1 | J |
| 21 | 413 | 13.2 | 34 | J | 4.7 | -2 | 173 | -4.7 | 0.5 | -0.3 | 1 | J |
| 22 | 412 | 13.5 | 39 | J | 4.4 | -2 | 173 | -4.4 | 0.5 | -0.3 | 0 | J |
| 23 | 408 | 11.8 | 41 | J | 4.8 | -8 | 179 | -4.8 | -0.1 | -0.7 | 1 | J |
| 24 | 396 | 8.2 | 43 | J | 6.2 | -8 | 175 | -6.1 | 0.3 | -1.0 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 8.0 | 39 | C | 5.7 | -8 | 173 | -5.6 | 0.5 | -0.9 | 1 | J |
| 2 | 381 | 10.9 | 60 | A | 4.6 | 7 | 175 | -4.2 | 0.5 | 0.4 | 2 | J |
| 3 | 378 | 9.6 | 50 | A | 5.2 | 8 | 170 | -4.8 | 1.0 | 0.4 | 2 | J |
| 4 | 374 | 9.5 | 49 | A | 6.2 | 11 | 171 | -6.0 | 1.3 | 0.8 | 1 | J |
| 5 | 373 | 9.5 | 41 | C | 5.4 | 56 | 221 | -1.8 | -0.1 | 3.9 | 3 | J |
| 6 | 401 | 10.5 | 53 | J | 4.1 | 68 | 206 | -1.3 | 1.0 | 3.5 | 1 | J |
| 7 | 399 | 7.9 | 48 | J | 5.9 | 68 | 177 | -2.2 | 2.7 | 4.7 | 1 | J |
| 8 | 384 | 5.4 | 34 | J | 7.1 | 52 | 134 | -3.0 | 5.4 | 3.1 | 2 | J |
| 9 | 385 | 6.7 | 38 | J | 8.9 | 59 | 172 | -4.5 | 4.6 | 6.0 | 2 | J |
| 10 | 410 | 8.6 | 46 | J | 10.3 | 70 | 162 | -3.1 | 5.9 | 6.9 | 3 | J |
| 11 | 393 | 8.9 | 65 | J | 10.2 | 58 | 144 | -4.1 | 7.0 | 5.0 | 4 | J |
| 12 | 406 | 10.0 | 57 | J | 10.0 | 20 | 114 | -3.6 | 8.4 | -1.9 | 4 | J |
| 13 | 409 | 7.7 | 43 | J | 11.5 | 54 | 127 | -3.4 | 7.9 | 4.0 | 6 | J |
| 14 | 405 | 9.2 | 76 | C | 9.4 | -59 | 110 | -1.6 | -0.3 | -9.0 | 3 | J |
| 15 | 415 | 10.3 | 52 | J | 8.9 | -45 | 103 | -1.3 | 2.1 | -7.9 | 3 | J |
| 16 | 385 | 12.4 | 238 | J | 7.1 | 20 | 120 | -2.8 | 5.3 | -0.3 | 4 | J |
| 17 | 414 | 11.3 | 75 | J | 7.0 | 44 | 95 | -0.4 | 6.1 | 2.3 | 3 | J |
| 18 | 391 | 11.1 | 157 | J | 5.3 | 7 | 153 | -3.4 | 1.8 | -0.2 | 4 | J |
| 19 | 397 | 11.6 | 181 | J | 5.1 | -20 | 160 | -4.0 | 0.9 | -1.9 | 2 | J |
| 20 | 377 | 9.7 | 112 | A | 5.7 | -36 | 143 | -3.4 | 1.7 | -3.7 | 2 | J |
| 21 | 366 | 9.5 | 104 | A | 6.1 | -6 | 131 | -3.7 | 4.0 | -1.5 | 2 | J |
| 22 | 361 | 8.5 | 59 | C | 6.4 | -4 | 134 | -3.3 | 3.3 | -1.0 | 4 | J |
| 23 | 349 | 9.0 | 57 | C | 6.5 | 14 | 152 | -5.3 | 3.1 | 0.9 | 2 | C |
| 24 | 354 | 8.8 | 54 | C | 6.5 | 26 | 140 | -4.3 | 4.1 | 1.9 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 8.8 | 50 | C | 7.0 | 43 | 122 | -2.4 | 4.8 | 3.3 | 3 | C |
| 2 | 365 | 10.6 | 46 | C | 7.4 | -1 | 119 | -2.4 | 4.1 | -1.2 | 5 | C |
| 3 | 353 | 12.9 | 33 | C | 7.0 | -7 | 146 | -5.5 | 3.3 | -1.9 | 2 | C |
| 4 | 352 | 13.1 | 50 | J | 6.3 | 0 | 150 | -5.5 | 3.0 | -1.1 | 1 | J |
| 5 | 355 | 17.4 | 39 | J | 4.6 | 30 | 160 | -2.8 | 1.6 | 1.2 | 3 | J |
| 6 | 364 | 18.7 | 37 | J | 4.8 | 25 | 338 | 3.2 | -0.5 | 2.0 | 3 | J |
| 7 | 375 | 26.2 | 24 | J | 4.5 | -24 | 163 | -1.5 | 0.1 | -0.8 | 4 | J |
| 8 | 374 | 14.7 | 47 | A | 8.1 | -15 | 114 | -3.1 | 4.9 | -5.3 | 2 | J |
| 9 | 376 | 12.5 | 21 | J | 8.3 | -20 | 107 | -2.3 | 4.7 | -6.4 | 1 | J |
| 10 | 372 | 12.3 | 25 | C | 7.2 | -26 | 118 | -2.8 | 2.8 | -5.4 | 3 | J |
| 11 | 367 | 12.0 | 24 | C | 6.4 | -46 | 139 | -2.6 | -0.2 | -4.3 | 4 | J |
| 12 | 364 | 12.2 | 27 | C | 6.1 | -53 | 121 | -1.3 | -0.1 | -4.1 | 4 | C |
| 13 | 371 | 11.2 | 34 | J | 5.3 | -34 | 145 | -2.1 | 0.3 | -2.3 | 4 | J |
| 14 | 381 | 12.0 | 32 | J | 5.1 | -11 | 107 | -1.4 | 3.5 | -3.3 | 1 | J |
| 15 | 370 | 11.2 | 42 | J | 5.0 | -10 | 123 | -2.2 | 2.6 | -2.3 | 3 | J |
| 16 | 370 | 11.1 | 25 | J | 6.2 | -12 | 116 | -2.6 | 4.2 | -3.5 | 1 | J |
| 17 | 370 | 15.7 | 17 | J | 6.4 | -7 | 106 | -1.7 | 5.2 | -3.1 | 1 | J |
| 18 | 375 | 12.2 | 21 | J | 6.8 | -10 | 112 | -2.5 | 5.4 | -3.3 | 1 | J |
| 19 | 374 | 11.0 | 22 | J | 7.1 | -8 | 117 | -3.2 | 5.7 | -2.8 | 1 | J |
| 20 | 379 | 11.0 | 26 | J | 7.5 | -16 | 124 | -3.9 | 5.1 | -3.5 | 2 | J |
| 21 | 379 | 13.3 | 29 | J | 7.6 | -67 | 217 | -1.0 | -1.5 | -2.8 | 7 | J |
| 22 | 380 | 8.9 | 28 | J | 9.1 | 5 | 299 | 4.3 | -7.4 | 2.4 | 2 | J |
| 23 | 388 | 7.0 | 49 | C | 7.8 | -22 | 293 | 2.8 | -7.0 | -1.4 | 2 | C |
| 24 | 400 | 5.8 | 68 | C | 7.1 | -28 | 291 | 2.1 | -6.0 | -1.9 | 2 | C |

SEP. 13, 1978 256

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 397 | 5.7 | 75 | J | 6.6 | -20 | 313 | 3.8 | -4.5 | -1.1 | 2 | J |
| 2 | 407 | 5.3 | 55 | J | 6.8 | -22 | 303 | 3.4 | -5.7 | -1.1 | 1 | J |
| 3 | 372 | 4.7 | 149 | A | 7.2 | -14 | 309 | 4.3 | -5.7 | -0.1 | 1 | C |
| 4 | 363 | 6.0 | 89 | A | 6.9 | -11 | 318 | 4.9 | -4.6 | 0.3 | 1 | C |
| 5 | 374 | 6.2 | 59 | C | 6.6 | -10 | 327 | 5.3 | -3.6 | 0.3 | 1 | C |
| 6 | 378 | 5.7 | 37 | J | 6.5 | -18 | 322 | 4.8 | -4.2 | -0.1 | 1 | J |
| 7 | 374 | 6.0 | 27 | J | 6.7 | -14 | 321 | 5.1 | -4.4 | 0.5 | 0 | J |
| 8 | 373 | 6.4 | 27 | J | 6.7 | -16 | 322 | 5.0 | -4.3 | 0.5 | 1 | J |
| 9 | 361 | 6.8 | 41 | C | 6.5 | -38 | 2 | 4.9 | -1.9 | -3.3 | 2 | C |
| 10 | 358 | 7.0 | 39 | C | 6.3 | -11 | 315 | 4.2 | -4.1 | 1.3 | 2 | C |
| 11 | 356 | 7.6 | 42 | C | 6.4 | -7 | 317 | 4.5 | -3.9 | 1.8 | 2 | C |
| 12 | 365 | 8.6 | 41 | C | 6.3 | -20 | 314 | 3.9 | -4.4 | 0.5 | 2 | C |
| 13 | 386 | 8.3 | 54 | J | 5.5 | 7 | 293 | 1.9 | -3.4 | 3.0 | 3 | J |
| 14 | 383 | 7.3 | 94 | A | 5.5 | -4 | 286 | 1.4 | -4.3 | 2.3 | 2 | C |
| 15 | 378 | 7.7 | 64 | C | 5.6 | -27 | 293 | 1.9 | -5.1 | 0.1 | 1 | C |
| 16 | 378 | 7.8 | 65 | J | 5.0 | -21 | 358 | 3.8 | -0.8 | -1.3 | 3 | J |
| 17 | 366 | 7.6 | 47 | J | 5.4 | -5 | 7 | 5.1 | 0.4 | -0.7 | 1 | J |
| 18 | 371 | 7.9 | 66 | C | 6.3 | -22 | 354 | 5.0 | -1.2 | -1.7 | 3 | C |
| 19 | 369 | 7.8 | 60 | C | 6.5 | -8 | 354 | 6.3 | -0.9 | -0.7 | 1 | C |
| 20 | 389 | 8.1 | 77 | C | 7.6 | 5 | 321 | 5.8 | -4.4 | 1.9 | 1 | C |
| 21 | 398 | 8.5 | 82 | C | 8.6 | 6 | 324 | 6.9 | -4.6 | 2.0 | 1 | C |
| 22 | 411 | 8.3 | 79 | C | 9.1 | 27 | 322 | 6.2 | -3.9 | 5.0 | 2 | J |
| 23 | 425 | 10.1 | 96 | J | 9.2 | 44 | 330 | 4.5 | -1.5 | 5.4 | 6 | J |
| 24 | 413 | 9.3 | 64 | J | 10.1 | 27 | 326 | 6.8 | -3.6 | 5.0 | 4 | J |

SEP. 14, 1978 257

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 388 | 10.3 | 54 | J | 11.0 | 16 | 325 | 8.5 | -5.1 | 4.3 | 2 | J |
| 2 | 432 | 15.9 | 31 | J | 10.6 | -22 | 248 | -3.3 | -8.8 | -1.3 | 4 | J |
| 3 | 366 | 0.0 | 0 | H | 11.2 | 3 | 284 | 2.4 | -9.4 | 3.5 | 4 | C |
| 4 | 390 | 12.3 | 27 | C | 11.6 | 14 | 319 | 8.4 | -5.9 | 5.1 | 1 | C |
| 5 | 371 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 6 | 401 | 12.1 | 35 | J | 10.4 | 27 | 320 | 6.8 | -3.1 | 6.5 | 3 | J |
| 7 | 395 | 12.4 | 32 | J | 9.6 | 29 | 325 | 6.2 | -1.8 | 5.7 | 4 | J |
| 8 | 382 | 13.6 | 44 | J | 9.4 | 28 | 348 | 7.9 | 0.8 | 4.6 | 2 | J |
| 9 | 370 | 10.6 | 30 | C | 9.3 | 19 | 305 | 4.9 | -4.2 | 6.2 | 2 | C |
| 10 | 361 | 10.7 | 30 | C | 8.7 | 24 | 320 | 5.9 | -2.2 | 5.6 | 2 | C |
| 11 | 357 | 10.8 | 30 | C | 7.7 | 22 | 1 | 6.9 | 1.7 | 2.2 | 2 | C |
| 12 | 353 | 10.1 | 25 | C | 7.2 | 21 | 4 | 6.6 | 1.8 | 1.8 | 1 | C |
| 13 | 349 | 9.8 | 23 | C | 6.6 | 31 | 9 | 5.3 | 2.4 | 2.2 | 2 | C |
| 14 | 346 | 9.0 | 25 | C | 6.1 | 29 | 357 | 5.1 | 1.3 | 2.5 | 2 | C |
| 15 | 348 | 7.9 | 30 | J | 5.4 | 5 | 328 | 4.3 | -2.1 | 1.7 | 2 | J |
| 16 | 339 | 6.1 | 23 | J | 4.5 | 16 | 10 | 4.0 | 1.1 | 0.7 | 1 | J |
| 17 | 343 | 7.5 | 29 | J | 5.2 | 30 | 27 | 3.9 | 2.8 | 1.5 | 1 | J |
| 18 | 333 | 7.0 | 18 | J | 4.9 | 30 | 21 | 3.8 | 2.2 | 1.7 | 1 | J |
| 19 | 338 | 6.7 | 22 | J | 4.5 | 25 | 32 | 3.3 | 2.5 | 1.1 | 1 | J |
| 20 | 335 | 7.0 | 18 | J | 4.1 | 16 | 29 | 3.3 | 2.0 | 0.6 | 1 | J |
| 21 | 335 | 6.5 | 17 | J | 4.4 | 60 | 23 | 2.0 | 1.7 | 3.4 | 1 | J |
| 22 | 334 | 6.5 | 17 | J | 3.8 | 21 | 22 | 3.0 | 1.5 | 1.0 | 2 | J |
| 23 | 330 | 6.5 | 18 | J | 4.0 | 18 | 15 | 3.4 | 1.1 | 0.9 | 1 | J |
| 24 | 327 | 6.6 | 21 | J | 4.1 | 7 | 13 | 3.9 | 1.0 | 0.3 | 1 | J |

SEP. 15, 1978 258

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 323 | 6.5 | 25 | J | 4.2 | 18 | 2 | 3.7 | 0.4 | 1.1 | 1 | J |
| 2 | 333 | 7.8 | 19 | C | 4.5 | 54 | 30 | 2.2 | 2.2 | 3.1 | 1 | J |
| 3 | 339 | 6.7 | 26 | J | 4.8 | 67 | 49 | 1.2 | 2.6 | 3.7 | 0 | J |
| 4 | 320 | 9.1 | 21 | C | 4.6 | 36 | 27 | 3.0 | 2.3 | 1.8 | 1 | C |
| 5 | 336 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 6 | 332 | 0.0 | 0 | H | 4.7 | -2 | 346 | 4.6 | -1.1 | 0.3 | 0 | C |
| 7 | 339 | 7.8 | 22 | J | 5.0 | 37 | 64 | 1.6 | 4.1 | 0.8 | 2 | J |
| 8 | 326 | 7.4 | 25 | J | 4.7 | 44 | 24 | 3.0 | 2.8 | 2.0 | 1 | J |
| 9 | 326 | 7.9 | 25 | J | 4.9 | 35 | 30 | 3.3 | 3.1 | 1.2 | 2 | J |
| 10 | 322 | 8.4 | 30 | J | 4.8 | 27 | 30 | 3.5 | 2.8 | 0.6 | 2 | J |
| 11 | 324 | 8.4 | 33 | J | 4.7 | 24 | 27 | 3.7 | 2.6 | 0.4 | 1 | J |
| 12 | 328 | 9.3 | 24 | C | 5.3 | 35 | 62 | 1.9 | 4.6 | 0.3 | 1 | C |
| 13 | 337 | 9.6 | 22 | C | 5.0 | 47 | 86 | 0.2 | 4.6 | 1.1 | 1 | C |
| 14 | 333 | 9.2 | 23 | C | 4.9 | 40 | 85 | 0.3 | 4.7 | 0.7 | 1 | C |
| 15 | 325 | 9.1 | 19 | C | 5.0 | 48 | 63 | 1.5 | 4.3 | 1.7 | 1 | C |
| 16 | 315 | 8.9 | 21 | C | 4.6 | 71 | 30 | 1.2 | 2.5 | 3.4 | 1 | C |
| 17 | 323 | 7.5 | 24 | J | 4.9 | 70 | 352 | 1.6 | 1.6 | 4.1 | 1 | J |
| 18 | 317 | 7.2 | 23 | J | 4.6 | 62 | 354 | 2.0 | 1.1 | 3.6 | 2 | J |
| 19 | 322 | 7.9 | 27 | J | 4.4 | 49 | 310 | 1.7 | -1.0 | 3.6 | 2 | J |
| 20 | 320 | 8.0 | 32 | J | 5.2 | 38 | 314 | 2.8 | -2.0 | 3.8 | 1 | J |
| 21 | 316 | 8.9 | 62 | J | 5.7 | 8 | 318 | 4.0 | -3.4 | 1.6 | 1 | J |
| 22 | 320 | 10.9 | 44 | A | 6.5 | 4 | 307 | 3.8 | -4.8 | 1.5 | 2 | J |
| 23 | 319 | 10.2 | 39 | J | 6.8 | -31 | 320 | 4.3 | -4.3 | -2.6 | 2 | J |
| 24 | 334 | 11.0 | 20 | J | 6.9 | -27 | 292 | 2.1 | -5.8 | -1.7 | 2 | J |

SEP. 16, 1978 259

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 337 | 11.7 | 17 | J | 7.1 | -13 | 281 | 1.3 | -6.7 | 0.0 | 2 | J |
| 2 | 340 | 12.1 | 19 | J | 6.8 | 1 | 278 | 0.9 | -6.3 | 1.8 | 2 | J |
| 3 | 341 | 11.8 | 27 | J | 6.6 | 10 | 291 | 2.2 | -5.1 | 2.7 | 2 | J |
| 4 | 356 | 11.6 | 26 | J | 7.4 | -73 | 221 | -1.4 | -3.3 | -5.4 | 4 | J |
| 5 | 355 | 10.2 | 25 | J | 7.4 | -55 | 253 | -1.2 | -5.9 | -3.9 | 2 | J |
| 6 | 347 | 11.0 | 32 | J | 6.2 | -43 | 268 | -0.2 | -5.8 | -1.8 | 2 | J |
| 7 | 339 | 10.7 | 23 | J | 6.1 | -22 | 282 | 1.1 | -5.6 | 0.6 | 2 | J |
| 8 | 335 | 9.9 | 31 | C | 5.4 | 17 | 308 | 3.0 | -2.5 | 3.3 | 2 | J |
| 9 | 330 | 10.6 | 37 | C | 5.6 | 46 | 318 | 2.8 | 0.0 | 4.7 | 1 | J |
| 10 | 333 | 8.9 | 51 | L | 4.9 | 34 | 343 | 3.6 | 0.5 | 2.8 | 2 | J |
| 11 | 338 | 8.6 | 43 | L | 4.5 | 24 | 339 | 3.5 | -0.1 | 2.1 | 2 | C |
| 12 | 332 | 7.9 | 44 | L | 4.9 | 38 | 350 | 3.6 | 1.1 | 2.7 | 1 | C |
| 13 | 336 | 8.7 | 34 | J | 4.9 | -6 | 326 | 3.4 | -2.1 | 0.9 | 3 | J |
| 14 | 334 | 9.9 | 41 | J | 5.1 | 0 | 358 | 4.8 | -0.1 | 0.1 | 2 | J |
| 15 | 335 | 10.3 | 37 | J | 5.2 | 11 | 312 | 3.2 | -2.7 | 2.6 | 2 | J |
| 16 | 337 | 7.4 | 20 | J | 6.2 | 4 | 306 | 3.5 | -4.1 | 2.5 | 2 | J |
| 17 | 342 | 8.2 | 33 | J | 6.2 | -5 | 304 | 3.3 | -4.7 | 1.5 | 2 | J |
| 18 | 335 | 8.3 | 18 | J | 6.4 | -9 | 313 | 4.2 | -4.5 | 0.7 | 1 | J |
| 19 | 335 | 8.6 | 14 | J | 6.5 | 7 | 310 | 4.1 | -4.4 | 2.2 | 1 | J |
| 20 | 334 | 9.4 | 13 | J | 6.3 | 4 | 300 | 3.1 | -5.1 | 1.8 | 1 | C |
| 21 | 326 | 11.0 | 22 | J | 4.8 | -14 | 344 | 4.0 | -1.4 | -0.7 | 2 | J |
| 22 | 323 | 16.3 | 20 | C | 4.9 | -50 | 40 | 2.4 | 1.2 | -4.1 | 0 | J |
| 23 | 316 | 13.1 | 21 | L | 5.8 | -34 | 330 | 4.1 | -2.9 | -2.6 | 1 | C |
| 24 | 363 | 16.6 | 24 | J | 6.0 | 79 | 168 | -0.8 | 1.1 | 4.3 | 4 | J |

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OF POOR QUALITY**

SEP. 17, 1978 260

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 368 | 12.9 | 47 | J | 6.1 | 68 | 126 | -0.9 | 2.0 | 3.3 | 5 | J |
| 2 | 396 | 10.2 | 78 | J | 6.5 | 45 | 306 | 1.6 | -1.4 | 3.2 | 5 | J |
| 3 | 398 | 9.6 | 83 | J | 7.2 | 20 | 304 | 3.6 | -4.4 | 3.9 | 2 | J |
| 4 | 395 | 0.0 | 0 | H | 6.1 | -55 | 333 | 1.8 | -1.9 | -2.4 | 5 | J |
| 5 | 421 | 9.8 | 115 | L | 5.8 | -86 | 264 | -0.0 | -2.6 | -5.0 | 2 | J |
| 6 | 402 | 9.6 | 117 | L | 5.5 | -43 | 334 | 3.0 | -2.7 | -2.2 | 2 | C |
| 7 | 413 | 8.3 | 117 | L | 5.4 | -43 | 314 | 2.2 | -3.4 | -1.5 | 3 | C |
| 8 | 412 | 7.0 | 118 | L | 5.6 | -56 | 350 | 2.3 | -2.2 | -2.8 | 3 | C |
| 9 | 427 | 5.1 | 173 | L | 5.2 | -14 | 295 | 2.1 | -4.3 | 1.4 | 1 | J |
| 10 | 417 | 7.1 | 135 | L | 5.4 | 47 | 283 | 0.8 | -0.7 | 4.9 | 2 | J |
| 11 | 406 | 6.1 | 70 | J | 5.2 | 4 | 306 | 2.8 | -2.9 | 2.4 | 2 | J |
| 12 | 406 | 6.1 | 62 | J | 5.1 | -6 | 321 | 3.7 | -2.8 | 1.3 | 1 | J |
| 13 | 407 | 6.5 | 69 | J | 4.7 | 17 | 315 | 3.1 | -1.9 | 2.8 | 1 | J |
| 14 | 405 | 7.3 | 68 | J | 3.7 | 49 | 46 | 1.2 | 2.2 | 1.1 | 3 | J |
| 15 | 398 | 7.7 | 93 | J | 3.5 | 18 | 16 | 2.8 | 1.2 | 0.4 | 1 | J |
| 16 | 421 | 7.5 | 95 | L | 4.1 | 26 | 248 | -1.0 | -1.7 | 2.4 | 2 | C |
| 17 | 403 | 5.6 | 60 | C | 4.6 | 19 | 276 | 0.4 | -3.0 | 2.7 | 2 | C |
| 18 | 401 | 6.6 | 88 | L | 4.3 | -7 | 276 | 0.4 | -3.9 | 0.9 | 1 | C |
| 19 | 395 | 6.0 | 49 | C | 4.0 | -21 | 336 | 3.3 | -1.8 | -0.8 | 1 | C |
| 20 | 390 | 6.2 | 48 | C | 4.3 | -7 | 335 | 3.7 | -1.8 | 0.0 | 1 | C |
| 21 | 394 | 6.4 | 47 | C | 3.6 | 9 | 282 | 0.3 | -1.2 | 0.5 | 3 | C |
| 22 | 399 | 5.7 | 45 | C | 3.9 | 16 | 221 | -2.6 | -2.1 | 1.5 | 1 | C |
| 23 | 395 | 5.8 | 41 | C | 3.4 | 22 | 234 | -1.7 | -2.0 | 1.6 | 1 | C |
| 24 | 395 | 5.2 | 52 | L | 3.9 | 24 | 249 | -1.2 | -2.8 | 2.1 | 1 | C |

SEP. 18, 1978 261

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 393 | 5.2 | 39 | C | 3.8 | 24 | 221 | -2.5 | -1.8 | 2.0 | 1 | C |
| 390 | 5.7 | 35 | C | 3.9 | 25 | 245 | -1.3 | -2.4 | 2.1 | 2 | C |
| 391 | 5.5 | 57 | L | 3.1 | 14 | 279 | 0.4 | -2.1 | 1.3 | 2 | C |
| 380 | 5.7 | 59 | L | 3.1 | 41 | 250 | -0.4 | -0.6 | 1.2 | 3 | C |
| 388 | 6.4 | 55 | L | 3.6 | 21 | 237 | -1.7 | -2.0 | 2.2 | 1 | C |
| 384 | 6.1 | 60 | L | 3.1 | 5 | 254 | -0.8 | -2.4 | 1.5 | 1 | C |
| 377 | 5.8 | 57 | L | 3.3 | 9 | 212 | -2.2 | -1.0 | 1.1 | 2 | C |
| 384 | 6.1 | 57 | L | 3.5 | 14 | 215 | -2.5 | -1.1 | 1.6 | 2 | C |
| 373 | 6.0 | 34 | C | 3.6 | 12 | 235 | -1.5 | -1.6 | 1.7 | 2 | C |
| 357 | 6.0 | 52 | L | 3.3 | 9 | 293 | 1.2 | -2.0 | 2.0 | 1 | C |
| 353 | 6.4 | 50 | L | 3.3 | -6 | 322 | 2.4 | -1.7 | 0.8 | 1 | C |
| 353 | 6.6 | 37 | L | 3.7 | -26 | 317 | 2.2 | -2.5 | -0.1 | 1 | C |
| 359 | 6.7 | 38 | L | 3.7 | -7 | 277 | 0.4 | -3.1 | 1.5 | 1 | C |
| 359 | 6.6 | 37 | L | 3.6 | 11 | 280 | 0.6 | -2.4 | 2.3 | 1 | C |
| 357 | 6.8 | 24 | C | 3.7 | 5 | 274 | 0.2 | -3.0 | 2.1 | 1 | C |
| 354 | 6.2 | 35 | L | 4.0 | 3 | 268 | -0.1 | -3.3 | 1.9 | 1 | C |
| 350 | 7.0 | 33 | L | 4.1 | -16 | 272 | 0.2 | -3.9 | 0.5 | 1 | C |
| 340 | 7.2 | 36 | L | 4.0 | -4 | 299 | 1.6 | -2.9 | 0.8 | 2 | C |
| 340 | 7.2 | 28 | L | 4.5 | -26 | 285 | 1.0 | -4.1 | -0.6 | 2 | C |
| 334 | 6.0 | 31 | L | 4.6 | -12 | 292 | 1.5 | -3.7 | 0.2 | 2 | C |
| 334 | 7.0 | 27 | L | 4.9 | 1 | 286 | 1.3 | -4.5 | 1.2 | 1 | C |
| 335 | 6.7 | 27 | L | 4.8 | -2 | 282 | 1.0 | -4.5 | 0.9 | 1 | C |
| 333 | 6.1 | 22 | L | 4.8 | -5 | 280 | 0.8 | -4.5 | 0.5 | 1 | C |
| 328 | 7.4 | 31 | L | 4.4 | 0 | 293 | 1.7 | -3.8 | 0.8 | 1 | C |

SEP. 19, 1978 262

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 327 | 7.0 | 30 | L | 4.4 | 3 | 283 | 0.8 | -3.4 | 1.0 | 2 | C |
| 2 | 324 | 7.1 | 29 | L | 4.3 | 7 | 288 | 1.1 | -3.1 | 1.3 | 2 | C |
| 3 | 327 | 6.9 | 24 | L | 4.8 | -9 | 269 | -0.1 | -4.6 | 0.7 | 1 | C |
| 4 | 329 | 6.9 | 18 | L | 4.9 | -13 | 250 | -1.6 | -4.5 | 0.5 | 0 | C |
| 5 | 328 | 7.1 | 19 | L | 4.7 | -15 | 253 | -1.3 | -4.5 | 0.6 | 0 | C |
| 6 | 318 | 8.2 | 20 | L | 4.4 | -9 | 258 | -0.9 | -4.1 | 1.2 | 0 | C |
| 7 | 314 | 7.2 | 27 | L | 4.3 | 13 | 319 | 2.4 | -1.5 | 1.7 | 3 | C |
| 8 | 320 | 0.0 | 0 | H | 3.9 | 8 | 340 | 3.1 | -0.8 | 1.0 | 2 | C |
| 9 | 317 | 6.0 | 41 | L | 4.3 | 2 | 296 | 1.9 | -3.1 | 2.2 | 1 | C |
| 10 | 312 | 8.5 | 20 | C | 4.6 | 3 | 297 | 2.1 | -3.2 | 2.5 | 0 | C |
| 11 | 309 | 8.8 | 22 | C | 4.5 | 14 | 289 | 1.4 | -2.7 | 3.2 | 1 | C |
| 12 | 320 | 7.1 | 40 | L | 4.5 | 25 | 267 | -0.2 | -2.3 | 3.8 | 1 | C |
| 13 | 309 | 9.5 | 21 | C | 4.2 | 2 | 314 | 2.5 | -2.1 | 1.6 | 2 | C |
| 14 | 304 | 6.9 | 29 | L | 3.8 | -27 | 358 | 3.4 | -1.0 | -1.4 | 1 | C |
| 15 | 297 | 11.2 | 19 | C | 3.7 | -18 | 354 | 3.5 | -0.9 | -0.8 | 0 | C |
| 16 | 299 | 7.3 | 27 | L | 3.6 | -8 | 340 | 3.3 | -1.3 | 0.1 | 0 | C |
| 17 | 297 | 9.0 | 27 | L | 3.7 | 4 | 346 | 3.5 | -0.7 | 0.6 | 1 | C |
| 18 | 295 | 10.7 | 18 | C | 3.7 | 1 | 352 | 3.6 | -0.5 | 0.2 | 0 | C |
| 19 | 294 | 6.5 | 23 | L | 3.6 | 7 | 352 | 3.5 | -0.3 | 0.6 | 0 | C |
| 20 | 293 | 7.0 | 22 | L | 3.8 | 5 | 352 | 3.7 | -0.4 | 0.4 | 0 | C |
| 21 | 293 | 11.9 | 16 | C | 3.5 | 2 | 332 | 3.0 | -1.5 | 0.5 | 1 | C |
| 22 | 294 | 11.7 | 17 | C | 3.7 | -2 | 308 | 2.2 | -2.8 | 0.5 | 0 | C |
| 23 | 293 | 12.0 | 17 | C | 3.4 | 5 | 305 | 1.8 | -2.5 | 0.8 | 1 | C |
| 24 | 293 | 7.9 | 25 | L | 3.7 | -3 | 282 | 0.8 | -3.4 | 0.5 | 1 | C |

SEP. 20, 1978 263

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 291 | 7.6 | 23 | L | 3.6 | -15 | 259 | -0.6 | -3.3 | -0.1 | 1 | C |
| 288 | 8.1 | 19 | L | 3.8 | -28 | 284 | 0.8 | -3.5 | -0.8 | 1 | C |
| 286 | 7.7 | 18 | L | 3.4 | 10 | 230 | -1.4 | -1.5 | 0.9 | 2 | C |
| 289 | 12.7 | 13 | C | 3.9 | 6 | 216 | -3.1 | -2.0 | 1.2 | 1 | C |
| 296 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 296 | 0.0 | 0 | H |  |  |  |  |  |  |  |  |
| 283 | 13.0 | 14 | C | 3.0 | -14 | 238 | -1.6 | -2.5 | 0.6 | 0 | C |
| 283 | 13.3 | 12 | C | 3.1 | -24 | 230 | -1.7 | -2.3 | 0.0 | 1 | C |
| 278 | 14.0 | 12 | C | 3.0 | -4 | 284 | 0.7 | -2.3 | 1.3 | 1 | C |
| 280 | 9.3 | 13 | L | 2.8 | -7 | 262 | -0.3 | -1.8 | 0.9 | 2 | C |
| 280 | 10.3 | 15 | L | 2.7 | -7 | 240 | -1.3 | -2.0 | 1.0 | 1 | C |
| 268 | 9.4 | 16 | L | 2.9 | -1 | 275 | 0.2 | -2.4 | 1.6 | 0 | C |
| 271 | 9.1 | 17 | L | 3.1 | 2 | 281 | 0.6 | -2.5 | 1.7 | 0 | C |
| 277 | 10.3 | 17 | L | 3.3 | 0 | 269 | -0.0 | -2.8 | 1.7 | 1 | C |
| 298 | 19.3 | 19 | L | 4.5 | 33 | 260 | -0.5 | -1.6 | 3.1 | 3 | C |
| 294 | 23.3 | 15 | L | 4.9 | 26 | 271 | 0.1 | -2.8 | 3.7 | 1 | C |
| 286 | 25.2 | 14 | L | 4.1 | 4 | 243 | -1.7 | -3.1 | 1.6 | 1 | C |
| 283 | 25.9 | 14 | L | 3.5 | -25 | 237 | -1.7 | -2.8 | -0.4 | 1 | C |
| 282 | 29.6 | 13 | L | 3.3 | -45 | 203 | -1.9 | -1.4 | -1.7 | 2 | C |
| 283 | 35.6 | 11 | C | 5.6 | -61 | 130 | -1.8 | 0.7 | -5.3 | 1 | C |
| 292 | 35.5 | 20 | L | 4.6 | -57 | 132 | -1.5 | 0.8 | -3.9 | 2 | C |
| 296 | 37.7 | 24 | L | 4.9 | -59 | 123 | -1.0 | 0.8 | -3.3 | 4 | C |
| 294 | 40.1 | 25 | A | 6.1 | 17 | 270 | 0.0 | -4.8 | 2.7 | 3 | C |
| 295 | 32.3 | 20 | L | 4.8 | 20 | 298 | 1.7 | -2.8 | 2.0 | 3 | C |

SEP. 21, 1978 264

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305 | 29.7 | 23 | J | 5.7 | 40 | 154 | -3.6 | 2.5 | 2.8 | 3 | C |
| 2 | 300 | 20.2 | 31 | J | 7.6 | 5 | 130 | -4.4 | 5.3 | -0.8 | 3 | C |
| 3 | 302 | 34.7 | 24 | J | 4.2 | 44 | 299 | 0.7 | -0.7 | 1.7 | 4 | C |
| 4 | 301 | 23.6 | 30 | C | 8.6 | -51 | 90 | 0.0 | 2.0 | -6.1 | 6 | C |
| 5 | 313 | 13.1 | 35 | J | 9.5 | -22 | 113 | -3.4 | 5.9 | -6.3 | 2 | C |
| 6 | 324 | 14.7 | 45 | J | 7.8 | -45 | 93 | -0.2 | 1.9 | -5.5 | 5 | J |
| 7 | 333 | 15.7 | 44 | J | 7.6 | -24 | 330 | 5.8 | -4.4 | -1.0 | 2 | J |
| 8 | 327 | 16.0 | 51 | J | 7.1 | 3 | 313 | 2.7 | -2.3 | 1.7 | 6 | J |
| 9 | 331 | 15.6 | 49 | J | 7.8 | 32 | 301 | 3.3 | -2.4 | 6.4 | 2 | J |
| 10 | 342 | 16.8 | 59 | J | 7.3 | 20 | 313 | 4.2 | -2.4 | 4.4 | 3 | J |
| 11 | 340 | 16.1 | 66 | J | 6.2 | -53 | 324 | 2.5 | -3.9 | -2.4 | 4 | J |
| 12 | 338 | 13.9 | 60 | J | 5.1 | -52 | 84 | 0.1 | 0.1 | -1.8 | 5 | J |
| 13 | 352 | 13.4 | 58 | J | 7.5 | 37 | 305 | 3.2 | -1.5 | 6.0 | 3 | J |
| 14 | 355 | 12.2 | 55 | J | 7.7 | 40 | 300 | 2.8 | -1.7 | 6.5 | 3 | J |
| 15 | 361 | 12.8 | 65 | J | 7.4 | 70 | 278 | 0.3 | 0.9 | 5.5 | 5 | J |
| 16 | 348 | 10.9 | 111 | J | 8.0 | -3 | 149 | -6.6 | 3.4 | -2.1 | 2 | J |
| 17 | 352 | 9.8 | 114 | J | 7.4 | 5 | 151 | -4.5 | 2.5 | -0.6 | 5 | J |
| 18 | 357 | 9.2 | 100 | J | 7.6 | 24 | 152 | -5.8 | 3.9 | 1.7 | 2 | J |
| 19 | 356 | 9.8 | 86 | J | 7.8 | 41 | 154 | -4.7 | 3.6 | 3.6 | 4 | J |
| 20 | 354 | 10.0 | 75 | J | 8.1 | 52 | 176 | -4.8 | 2.0 | 5.8 | 2 | J |
| 21 | 353 | 9.0 | 67 | J | 8.0 | 40 | 146 | -4.6 | 4.1 | 3.8 | 3 | J |
| 22 | 347 | 8.9 | 62 | J | 8.2 | 20 | 169 | -7.0 | 1.9 | 2.2 | 3 | J |
| 23 | 350 | 8.8 | 89 | J | 8.1 | 37 | 175 | -6.0 | 1.5 | 4.4 | 3 | J |
| 24 | 356 | 8.6 | 75 | J | 7.8 | 22 | 120 | -3.0 | 5.5 | 1.2 | 4 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 356 | 8.4 | 73 | J | 7.9 | 16 | 142 | -5.0 | 4.2 | 0.9 | 4 | J |
| 351 | 8.9 | 77 | J | 7.4 | -9 | 140 | -5.2 | 3.9 | -2.2 | 3 | J |
| 343 | 8.7 | 62 | J | 7.9 | 19 | 146 | -5.9 | 4.5 | 1.1 | 2 | J |
| 352 | 8.4 | 76 | J | 7.3 | 19 | 135 | -4.7 | 5.2 | 0.5 | 2 | J |
| 349 | 8.4 | 75 | J | 7.5 | 17 | 136 | -4.7 | 5.0 | 0.0 | 3 | J |
| 348 | 8.8 | 87 | J | 7.1 | -12 | 152 | -5.3 | 1.9 | -2.4 | 4 | J |
| 346 | 8.6 | 71 | J | 7.0 | -4 | 158 | -5.2 | 1.6 | -1.4 | 4 | J |
| 362 | 8.4 | 71 | J | 6.9 | -28 | 124 | -2.8 | 2.2 | -4.5 | 4 | J |
| 348 | 8.0 | 66 | J | 7.4 | 14 | 127 | -4.2 | 5.6 | -1.6 | 1 | J |
| 356 | 7.9 | 57 | J | 7.2 | 16 | 116 | -2.9 | 5.9 | -1.8 | 2 | J |
| 341 | 7.1 | 29 | J | 7.6 | 4 | 132 | -4.9 | 4.8 | -2.7 | 2 | C |
| 353 | 8.2 | 63 | J | 7.3 | 6 | 116 | -3.0 | 5.4 | -2.9 | 3 | J |
| 358 | 8.1 | 56 | J | 7.4 | -13 | 115 | -2.6 | 3.8 | -4.2 | 4 | J |
| 368 | 8.1 | 64 | J | 7.2 | -37 | 108 | -1.4 | 1.8 | -5.0 | 5 | J |
| 374 | 8.1 | 62 | J | 7.1 | -33 | 78 | 1.2 | 3.0 | -5.9 | 2 | J |
| 352 | 8.0 | 81 | J | 6.4 | -2 | 104 | -1.4 | 4.8 | -2.6 | 3 | J |
| 354 | 8.2 | 59 | C | 7.1 | -15 | 87 | 0.3 | 3.9 | -3.1 | 5 | J |
| 329 | 8.6 | 55 | C | 7.3 | -61 | 99 | -0.5 | 1.0 | -6.9 | 2 | J |
| 343 | 8.4 | 56 | C | 7.6 | -48 | 107 | -1.4 | 2.7 | -6.3 | 3 | J |
| 337 | 8.7 | 78 | J | 7.4 | 22 | 131 | -4.1 | 5.2 | 1.2 | 3 | J |
| 340 | 8.8 | 48 | C | 7.9 | -6 | 105 | -1.9 | 6.4 | -2.4 | 3 | C |
| 340 | 8.5 | 50 | C | 7.3 | 9 | 108 | -2.0 | 6.1 | -0.3 | 3 | C |
| 342 | 9.0 | 67 | C | 7.1 | -1 | 97 | -0.7 | 5.7 | -1.3 | 3 | C |
| 339 | 8.1 | 59 | C | 5.9 | -18 | 143 | -3.3 | 2.1 | -1.8 | 3 | C |

SEP. 23, 1978 266

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 332 | 6.9 | 42 | J | 6.7 | 47 | 157 | -3.5 | 2.4 | 3.6 | 4 | J |
| 2 | 349 | 9.1 | 61 | C | 7.0 | 49 | 168 | -4.1 | 2.1 | 4.4 | 3 | J |
| 3 | 364 | 8.3 | 48 | J | 7.6 | 13 | 99 | -1.1 | 7.1 | -0.6 | 3 | J |
| 4 | 346 | 7.8 | 46 | J | 7.9 | 6 | 106 | -2.0 | 6.9 | -1.7 | 3 | J |
| 5 | 343 | 8.2 | 47 | J | 7.5 | 6 | 115 | -2.8 | 5.7 | -1.7 | 3 | J |
| 6 | 337 | 7.6 | 37 | J | 7.6 | 11 | 122 | -3.4 | 5.4 | -1.3 | 4 | J |
| 7 | 352 | 8.6 | 44 | J | 7.4 | 29 | 110 | -2.0 | 6.4 | 0.2 | 3 | J |
| 8 | 352 | 8.9 | 43 | J | 7.4 | 8 | 107 | -1.8 | 5.5 | -2.4 | 4 | J |
| 9 | 340 | 8.8 | 49 | J | 7.1 | -2 | 119 | -3.2 | 4.7 | -3.4 | 3 | J |
| 10 | 327 | 8.7 | 44 | J | 7.0 | -3 | 135 | -4.7 | 3.7 | -3.0 | 2 | J |
| 11 | 339 | 8.6 | 43 | J | 6.5 | -25 | 126 | -3.1 | 2.1 | -4.5 | 3 | J |
| 12 | 341 | 8.1 | 45 | J | 6.1 | -27 | 128 | -2.8 | 1.6 | -3.9 | 3 | J |
| 13 | 340 | 7.8 | 40 | J | 5.7 | -31 | 139 | -3.2 | 0.9 | -3.7 | 3 | J |
| 14 | 351 | 7.5 | 46 | J | 5.1 | 25 | 183 | -2.6 | 0.5 | 1.1 | 4 | J |
| 15 | 368 | 6.7 | 29 | J | 5.5 | 10 | 114 | -1.8 | 3.9 | -1.3 | 3 | J |
| 16 | 361 | 6.8 | 33 | J | 5.6 | -1 | 109 | -1.7 | 4.3 | -2.2 | 2 | J |
| 17 | 372 | 6.8 | 26 | J | 5.4 | -17 | 99 | -0.7 | 3.5 | -3.0 | 3 | J |
| 18 | 374 | 6.8 | 23 | J | 5.5 | -3 | 90 | 0.0 | 4.5 | -2.0 | 3 | J |
| 19 | 375 | 7.1 | 24 | J | 5.5 | -1 | 87 | 0.3 | 4.7 | -1.6 | 2 | J |
| 20 | 351 | 8.3 | 82 | C | 5.3 | 2 | 107 | -1.3 | 4.1 | -1.0 | 3 | C |
| 21 | 361 | 8.1 | 96 | C | 5.3 | -12 | 86 | 0.3 | 4.2 | -2.0 | 2 | C |
| 22 | 328 | 8.9 | 95 | C | 5.3 | 4 | 143 | -3.7 | 2.8 | -0.3 | 2 | C |
| 23 | 344 | 8.4 | 87 | C | 5.4 | -10 | 111 | -1.7 | 4.3 | -1.8 | 1 | C |
| 24 | 363 | 6.5 | 26 | J | 5.1 | 14 | 101 | -0.9 | 4.7 | 0.2 | 2 | J |

SEP. 24, 1978 267

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 364 | 6.6 | 25 | J | 4.9 | 21 | 91 | -0.1 | 4.3 | 0.6 | 2 | J |
| 348 | 9.0 | 121 | C | 4.3 | 8 | 104 | -0.9 | 3.6 | -0.5 | 2 | C |
| 337 | 5.5 | 18 | J | 3.9 | 4 | 156 | -3.4 | 1.5 | -0.2 | 1 | J |
| 350 | 6.0 | 27 | J | 4.0 | -20 | 123 | -1.6 | 2.0 | -1.9 | 2 | J |
| 340 | 6.2 | 21 | J | 4.1 | -12 | 124 | -2.0 | 2.4 | -1.9 | 2 | J |
| 354 | 6.3 | 24 | J | 4.4 | -72 | 10 | 1.2 | -1.5 | -3.5 | 2 | J |
| 342 | 6.4 | 21 | J | 4.3 | -58 | 149 | -1.7 | -0.7 | -3.3 | 2 | J |
| 327 | 6.4 | 23 | J | 4.7 | 8 | 186 | -4.2 | -0.1 | 0.7 | 2 | J |
| 330 | 5.9 | 27 | J | 4.6 | 15 | 170 | -3.8 | 1.1 | 0.5 | 2 | J |
| 339 | 6.5 | 19 | J | 4.9 | 29 | 146 | -3.3 | 3.1 | 0.6 | 2 | J |
| 343 | 7.5 | 26 | J | 5.1 | 43 | 117 | -1.6 | 4.4 | 0.9 | 1 | J |
| 339 | 7.8 | 26 | J | 5.7 | 36 | 142 | -3.2 | 3.7 | 1.0 | 3 | J |
| 348 | 12.1 | 63 | J | 7.9 | 40 | 160 | -5.3 | 4.2 | 2.9 | 3 | J |
| 363 | 13.1 | 42 | J | 8.3 | 28 | 147 | -5.3 | 4.7 | 1.1 | 4 | J |
| 363 | 15.0 | 43 | J | 8.1 | 14 | 142 | -5.0 | 4.2 | -0.5 | 4 | J |
| 352 | 16.9 | 69 | J | 8.1 | 22 | 168 | -6.6 | 2.5 | 1.8 | 4 | J |
| 365 | 16.1 | 66 | J | 8.9 | -6 | 133 | -5.6 | 5.2 | -3.2 | 3 | J |
| 359 | 23.7 | 77 | C | 7.1 | 42 | 145 | -2.8 | 2.9 | 2.2 | 6 | J |
| 368 | 19.6 | 41 | J | 9.1 | 24 | 297 | 3.6 | -5.6 | 5.5 | 3 | J |
| 360 | 19.3 | 37 | J | 8.1 | 11 | 316 | 5.1 | -4.4 | 2.6 | 4 | J |
| 337 | 16.0 | 30 | J | 7.7 | -32 | 354 | 6.1 | -1.5 | -3.6 | 3 | J |
| 335 | 13.4 | 147 | C | 8.5 | -37 | 355 | 5.4 | -1.3 | -4.0 | 5 | C |
| 395 | 7.5 | 145 | C | 11.3 | -32 | 312 | 6.4 | -8.2 | -4.4 | 1 | J |
| 418 | 9.0 | 154 | J | 9.9 | 0 | 303 | 4.6 | -7.0 | 1.5 | 5 | J |

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## SEP. 25, 1978 268

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 363 | 10.3 | 141 | C | 11.0 | -4 | 327 | 9.0 | -5.9 | 0.6 | 2 | C |
| 2 | 364 | 9.9 | 144 | C | 10.9 | -23 | 323 | 7.8 | -6.8 | -2.5 | 2 | J |
| 3 | 402 | 8.4 | 236 | J | 10.7 | -25 | 318 | 6.9 | -7.3 | -2.3 | 3 | J |
| 4 | 382 | 6.6 | 91 | J | 10.0 | -27 | 323 | 7.0 | -6.5 | -2.3 | 2 | J |
| 5 | 377 | 7.0 | 89 | J | 9.3 | -37 | 337 | 6.7 | -4.8 | -3.9 | 2 | J |
| 6 | 376 | 7.0 | 71 | J | 9.6 | -38 | 352 | 7.3 | -3.5 | -4.7 | 2 | J |
| 7 | 369 | 6.0 | 57 | J | 9.1 | -29 | 354 | 7.7 | -2.8 | -3.4 | 2 | J |
| 8 | 380 | 14.4 | 479 | A | 14.4 | -32 | 336 | 10.0 | -7.4 | -3.5 | 8 | J |
| 9 | 469 | 12.3 | 236 | C | 16.0 | -18 | 333 | 12.4 | -7.7 | -0.3 | 7 | J |
| 10 | 467 | 18.5 | 298 | J | 13.1 | -46 | 326 | 3.6 | -4.5 | -2.3 | 12 | J |
| 11 | 497 | 22.3 | 145 | J | 10.5 | -58 | 158 | -3.8 | -2.5 | -6.2 | 8 | J |
| 12 | 472 | 15.6 | 173 | C | 9.9 | -81 | 10 | 1.4 | -4.9 | -7.6 | 4 | J |
| 13 | 442 | 14.4 | 127 | J | 11.5 | -44 | 340 | 7.6 | -6.6 | -5.0 | 2 | J |
| 14 | 466 | 14.2 | 121 | C | 9.0 | -78 | 265 | -0.1 | -3.9 | -4.1 | 7 | J |
| 15 | 490 | 23.3 | 117 | J | 4.8 | -58 | 113 | -0.6 | 0.0 | -2.8 | 4 | J |
| 16 | 499 | 23.6 | 105 | J | 5.7 | -51 | 36 | 1.7 | -0.0 | -2.8 | 5 | J |
| 17 | 498 | 21.0 | 125 | J | 6.5 | -44 | 80 | 0.4 | 1.2 | -3.0 | 6 | J |
| 18 | 489 | 31.2 | 165 | J | 12.5 | -10 | 181 | -10.6 | -0.8 | -1.7 | 7 | J |
| 19 | 474 | 26.4 | 156 | J | 14.5 | 1 | 150 | -10.5 | 5.8 | -1.6 | 8 | J |
| 20 | 454 | 22.3 | 114 | C | 11.2 | 3 | 337 | 7.9 | -3.1 | 1.3 | 8 | J |
| 21 | 438 | 18.5 | 297 | A | 10.0 | 18 | 321 | 7.2 | -5.0 | 4.3 | 3 | J |
| 22 | 446 | 18.2 | 147 | C | 9.8 | 23 | 3 | 8.8 | 1.3 | 3.6 | 2 | J |
| 23 | 454 | 17.7 | 156 | C | 9.2 | 26 | 45 | 4.6 | 5.2 | 2.2 | 6 | J |
| 24 | 461 | 18.9 | 99 | C | 8.3 | 15 | 328 | 6.3 | -3.5 | 2.8 | 2 | C |

## SEP. 26, 1978 269

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 462 | 21.3 | 73 | C | 6.9 | 45 | 289 | 1.4 | -2.8 | 4.9 | 3 | C |
| 2 | 456 | 18.5 | 60 | C | 8.1 | 18 | 299 | 3.4 | -5.3 | 3.8 | 3 | C |
| 3 | 467 | 23.4 | 77 | J | 4.6 | -77 | 151 | -0.8 | -0.8 | -4.1 | 2 | J |
| 4 | 472 | 22.7 | 74 | J | 5.4 | -55 | 42 | 1.2 | 0.2 | -2.6 | 5 | J |
| 5 | 493 | 18.4 | 109 | J | 7.5 | 5 | 302 | 3.9 | -5.4 | 3.0 | 2 | J |
| 6 | 495 | 15.6 | 94 | J | 8.8 | 7 | 300 | 3.8 | -5.4 | 3.7 | 5 | J |
| 7 | 504 | 17.1 | 80 | J | 8.7 | -59 | 292 | 1.5 | -6.6 | -4.1 | 4 | J |
| 8 | 510 | 27.3 | 60 | J | 6.9 | -61 | 251 | -0.9 | -5.0 | -3.0 | 4 | J |
| 9 | 503 | 25.1 | 73 | C | 8.0 | -67 | 153 | -2.2 | -2.3 | -5.5 | 5 | C |
| 10 | 509 | 20.6 | 100 | C | 8.4 | 29 | 353 | 2.6 | 0.6 | 1.4 | 8 | C |
| 11 | 517 | 13.2 | 129 | C | 9.8 | 30 | 136 | -4.3 | 5.4 | 0.5 | 7 | C |
| 12 | 514 | 14.5 | 108 | C | 9.9 | 1 | 308 | 5.9 | -6.2 | 4.4 | 2 | C |
| 13 | 507 | 15.6 | 84 | C | 9.9 | 79 | 10 | 1.8 | 5.5 | 7.8 | 2 | J |
| 14 | 489 | 19.6 | 89 | J | 9.2 | 46 | 119 | -2.6 | 6.9 | 2.3 | 5 | J |
| 15 | 510 | 14.4 | 96 | J | 10.5 | -9 | 137 | -7.2 | 5.1 | -4.6 | 4 | J |
| 16 | 505 | 8.1 | 39 | J | 11.1 | -13 | 136 | -7.8 | 5.6 | -5.6 | 2 | J |
| 17 | 483 | 13.7 | 86 | J | 9.0 | -44 | 146 | -0.5 | 0.1 | -0.7 | 9 | J |
| 18 | 497 | 4.2 | 37 | C | 12.7 | -25 | 303 | 6.2 | -10.7 | -1.6 | 2 | J |
| 19 | 500 | 2.8 | 33 | C | 13.2 | -18 | 311 | 8.1 | -10.1 | -1.0 | 2 | J |
| 20 | 496 | 2.9 | 35 | C | 13.1 | -25 | 299 | 5.8 | -11.4 | -2.6 | 0 | C |
| 21 | 543 | 8.9 | 30 | J | 14.8 | -32 | 287 | 3.6 | -13.2 | -4.7 | 3 | J |
| 22 | 527 | 6.1 | 45 | J | 14.9 | -8 | 296 | 6.3 | -13.0 | 0.8 | 3 | J |
| 23 | 503 | 5.0 | 30 | J | 14.3 | 2 | 310 | 9.1 | -10.5 | 2.7 | 3 | J |
| 24 |  |  |  |  | 13.8 | 4 | 313 | 9.2 | -9.4 | 3.0 | 3 | J |

## SEP. 27, 1978 270

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 581 | 5.8 | 235 | C | 12.5 | -41 | 149 | -7.2 | 2.5 | -8.2 | 5 | C |
| 2 | 637 | 6.0 | 273 | C | 11.8 | 54 | 107 | -1.3 | 5.7 | 4.7 | 8 | C |
| 3 | 662 | 6.9 | 245 | C | 12.0 | 69 | 65 | 1.7 | 6.6 | 8.7 | 4 | C |
| 4 | 676 | 8.0 | 182 | C | 11.4 | 3 | 56 | 5.0 | 7.1 | -2.2 | 6 | C |
| 5 | 687 | 5.8 | 176 | C | 6.9 | -4 | 352 | 5.9 | -0.9 | -0.0 | 4 | C |
| 6 | 664 | 5.2 | 178 | J | 6.7 | -37 | 330 | 3.2 | -2.9 | -1.7 | 5 | J |
| 7 | 594 | 5.3 | 144 | J | 7.2 | 53 | 146 | -2.5 | 3.5 | 2.7 | 5 | J |
| 8 | 574 | 5.4 | 117 | J | 8.2 | 29 | 173 | -5.3 | 2.1 | 2.2 | 5 | J |
| 9 | 590 | 7.0 | 140 | J | 8.7 | 30 | 123 | -1.6 | 3.0 | 0.1 | 8 | J |
| 10 | 651 | 6.5 | 180 | J | 8.9 | 26 | 80 | 0.9 | 5.9 | -0.8 | 7 | J |
| 11 | 650 | 5.5 | 138 | J | 9.1 | 23 | 49 | 3.7 | 4.9 | -0.4 | 6 | C |
| 12 | 660 | 6.8 | 79 | J | 9.3 | 27 | 40 | 6.0 | 6.4 | 0.4 | 3 | J |
| 13 | 627 | 8.3 | 70 | J | 10.0 | 35 | 49 | 5.3 | 8.1 | 1.4 | 2 | J |
| 14 | 618 | 8.9 | 79 | J | 10.3 | 34 | 37 | 6.8 | 7.3 | 2.2 | 2 | J |
| 15 | 614 | 5.7 | 57 | J | 10.3 | 39 | 43 | 5.8 | 7.8 | 3.0 | 2 | J |
| 16 | 596 | 10.5 | 105 | L | 8.2 | 33 | 28 | 3.7 | 3.0 | 1.6 | 6 | C |
| 17 | 571 | 9.9 | 72 | L | 8.7 | -37 | 168 | -6.7 | -0.7 | -5.4 | 1 | C |
| 18 | 586 | 7.3 | 110 | J | 8.6 | -26 | 148 | -6.2 | 2.4 | -4.7 | 3 | J |
| 19 | 587 | 7.6 | 136 | J | 8.1 | -32 | 145 | -5.0 | 2.2 | -4.7 | 3 | J |
| 20 | 582 | 7.9 | 88 | J | 8.0 | -33 | 160 | -5.0 | 0.9 | -3.8 | 5 | J |
| 21 | 601 | 6.5 | 140 | J | 8.5 | -66 | 195 | -2.8 | -2.3 | -6.2 | 4 | J |
| 22 | 588 | 6.2 | 207 | J | 8.0 | -38 | 155 | -5.3 | 1.4 | -5.0 | 3 | J |
| 23 | 594 | 7.4 | 273 | J | 7.1 | -41 | 154 | -4.2 | 1.2 | -4.4 | 3 | J |
| 24 | 615 | 7.1 | 200 | J | 7.1 | -38 | 117 | -2.4 | 3.7 | -5.0 | 2 | J |

## SEP. 28, 1978 271

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 614 | 7.3 | 199 | J | 6.5 | -34 | 134 | -3.1 | 2.4 | -3.7 | 3 | J |
| 2 | 637 | 6.0 | 160 | J | 6.0 | -6 | 105 | -1.4 | 5.0 | -2.0 | 2 | J |
| 3 | 618 | 6.4 | 221 | L | 5.3 | -43 | 146 | -2.7 | 0.8 | -3.5 | 3 | J |
| 4 | 627 | 5.8 | 158 | J | 5.9 | -44 | 184 | -3.9 | -1.6 | -3.4 | 2 | J |
| 5 | 627 | 5.2 | 106 | J | 5.5 | -56 | 165 | -2.9 | -1.0 | -4.3 | 1 | J |
| 6 | 613 | 5.8 | 197 | L | 6.3 | -57 | 158 | -3.1 | -1.1 | -5.1 | 0 | C |
| 7 | 606 | 5.7 | 177 | L |  |  |  |  |  |  |  |  |
| 8 | 619 | 5.6 | 172 | L | 6.9 | 14 | 145 | -4.6 | 3.5 | -0.5 | 3 | C |
| 9 | 645 | 5.2 | 202 | L | 7.2 | -28 | 135 | -4.1 | 1.7 | -4.8 | 3 | C |
| 10 | 654 | 4.7 | 229 | L | 6.9 | -15 | 123 | -3.0 | 2.9 | -3.8 | 3 | C |
| 11 | 654 | 5.8 | 257 | L | 6.6 | -24 | 130 | -3.3 | 1.9 | -4.1 | 3 | C |
| 12 | 646 | 5.1 | 167 | J | 6.5 | 20 | 128 | -3.2 | 4.4 | -0.7 | 3 | J |
| 13 | 655 | 5.2 | 205 | J | 6.6 | -42 | 113 | -1.8 | 1.3 | -5.7 | 2 | J |
| 14 | 644 | 5.5 | 181 | J | 6.3 | 2 | 131 | -3.6 | 3.6 | -2.0 | 3 | J |
| 15 | 649 | 5.2 | 152 | J | 6.5 | 58 | 174 | -3.1 | 2.7 | 4.2 | 3 | J |
| 16 | 625 | 4.9 | 84 | J | 5.5 | 10 | 183 | -4.9 | 0.2 | 0.9 | 2 | J |
| 17 | 622 | 4.4 | 75 | J | 4.8 | -7 | 182 | -4.4 | -0.4 | -0.4 | 2 | J |
| 18 | 631 | 4.4 | 98 | J | 4.9 | 1 | 167 | -3.4 | 0.8 | -0.2 | 3 | J |
| 19 | 631 | 4.4 | 86 | J | 4.9 | -15 | 168 | -4.0 | 0.5 | -1.3 | 2 | J |
| 20 | 643 | 4.1 | 111 | J | 5.3 | 1 | 166 | -2.6 | 0.6 | -0.1 | 5 | J |
| 21 | 642 | 4.1 | 154 | L | 5.0 | -65 | 160 | -1.3 | -0.2 | -3.0 | 4 | J |
| 22 | 716 | 8.1 | 249 | J | 9.7 | -51 | 150 | -4.9 | 1.3 | -7.4 | 4 | J |
| 23 | 695 | 6.5 | 328 | J | 7.5 | -37 | 149 | -4.8 | 1.9 | -4.7 | 2 | J |
| 24 | 688 | 6.2 | 248 | J | 8.2 | -12 | 146 | -5.4 | 3.2 | -2.1 | 5 | J |

## SEP. 29, 1978 272

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 710 | 5.4 | 237 | J | 8.1 | 1 | 126 | -4.2 | 5.7 | -1.2 | 4 | J |
| 2 | 701 | 3.8 | 140 | J | 8.8 | 37 | 122 | -3.6 | 7.0 | 3.5 | 2 | J |
| 3 | 686 | 4.4 | 138 | L | 8.3 | 27 | 134 | -5.0 | 6.1 | 1.9 | 2 | J |
| 4 | 866 | 8.9 | 609 | L |  |  |  |  |  |  |  |  |
| 5 | 912 | 11.0 | 1389 | L | 10.9 | -24 | 161 | -4.3 | 0.6 | -2.5 | 10 | J |
| 6 | 874 | 7.8 | 901 | C | 12.7 | 31 | 140 | -6.8 | 7.5 | 2.3 | 7 | J |
| 7 | 898 | 7.3 | 474 | C | 15.3 | -3 | 116 | -5.6 | 9.8 | -6.2 | 8 | J |
| 8 | 893 | 5.6 | 375 | C | 19.0 | -53 | 85 | 1.0 | 1.7 | -18.3 | 5 | J |
| 9 | 869 | 5.8 | 161 | C | 23.0 | -34 | 94 | -1.0 | 6.4 | -15.4 | 16 | J |
| 10 | 854 | 5.3 | 62 | C | 25.0 | -74 | 116 | -3.0 | -8.4 | -23.2 | 3 | J |
| 11 | 817 | 2.2 | 62 | C | 24.9 | -65 | 103 | -2.4 | -4.4 | -24.4 | 1 | J |
| 12 | 797 | 4.4 | 51 | C | 23.0 | -45 | 95 | -1.5 | 4.1 | -22.4 | 3 | C |
| 13 | 796 | 3.6 | 65 | C | 20.5 | -31 | 90 | -0.1 | 9.0 | -18.3 | 1 | C |
| 14 | 809 | 2.8 | 50 | L | 17.5 | -16 | 99 | -2.6 | 11.7 | -12.7 | 1 | C |
| 15 | 800 | 0.9 | 35 | L | 16.0 | -11 | 99 | -2.4 | 12.0 | -10.2 | 1 | C |
| 16 | 765 | 1.8 | 42 | C | 14.8 | -5 | 101 | -2.7 | 12.3 | -7.6 | 1 | C |
| 17 |  |  |  |  | 13.7 | 3 | 102 | -2.9 | 12.5 | -4.7 | 1 | C |
| 18 | 717 | 2.1 | 54 | C | 12.1 | 28 | 105 | -2.4 | 10.5 | 1.6 | 5 | C |
| 19 | 707 | 0.4 | 56 | C | 18.7 | 79 | 70 | 1.2 | 8.7 | 16.5 | 1 | J |
| 20 | 710 | 0.5 | 41 | C | 17.9 | 75 | 71 | 1.5 | 8.8 | 15.5 | 1 | J |
| 21 | 699 | 0.5 | 57 | C | 17.6 | 72 | 64 | 2.4 | 8.6 | 15.2 | 1 | J |
| 22 | 688 | 0.6 | 55 | C | 16.6 | 72 | 60 | 2.6 | 7.7 | 14.5 | 1 | J |
| 23 | 672 | 0.5 | 42 | C | 16.2 | 75 | 68 | 1.6 | 7.0 | 14.5 | 1 | J |
| 24 | 654 | 0.4 | 38 | C | 14.9 | 73 | 83 | 0.5 | 7.2 | 12.9 | 1 | J |

## SEP. 30, 1978 273

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 659 | 0.7 | 43 | C | 14.1 | 74 | 80 | 0.7 | 6.8 | 12.3 | 1 | J |
| 2 | 649 | 0.3 | 693 | L | 14.0 | 74 | 84 | 0.4 | 7.2 | 12.0 | 1 | J |
| 3 | 652 | 0.4 | 158 | L | 13.7 | 75 | 85 | 0.3 | 7.3 | 11.6 | 1 | J |
| 4 | 638 | 2.2 | 67 | L | 3.9 | 39 | 75 | 0.7 | 3.4 | 1.3 | 1 | C |
| 5 | 630 | 1.7 | 67 | L | 3.6 | -47 | 205 | -1.6 | -1.4 | -1.4 | 2 | C |
| 6 | 642 | 1.5 | 40 | L | 4.2 | -43 | 203 | -2.5 | -2.0 | -1.8 | 2 | C |
| 7 | 643 | 0.9 | 43 | L | 4.2 | -33 | 190 | -3.1 | -1.4 | -1.5 | 2 | C |
| 8 | 642 | 0.8 | 53 | L | 4.1 | -36 | 158 | -2.9 | -0.2 | -2.6 | 1 | C |
| 9 | 633 | 0.9 | 33 | L | 3.9 | -3 | 153 | -3.3 | 1.3 | -1.1 | 1 | C |
| 10 | 630 | 0.7 | 46 | L | 4.0 | 1 | 169 | -3.8 | 0.7 | -0.4 | 1 | C |
| 11 | 620 | 0.6 | 47 | L | 4.1 | -10 | 189 | -4.0 | -0.9 | -0.2 | 0 | C |
| 12 | 612 | 0.7 | 52 | L | 4.3 | -18 | 187 | -4.0 | -1.2 | -0.8 | 1 | C |
| 13 | 605 | 0.7 | 44 | L | 4.3 | -25 | 191 | -3.7 | -1.6 | -1.1 | 1 | C |
| 14 | 597 | 1.0 | 33 | L | 4.2 | -21 | 183 | -3.8 | -0.9 | -1.2 | 1 | C |
| 15 | 592 | 0.8 | 40 | L | 4.2 | -14 | 186 | -3.9 | -0.8 | -0.6 | 1 | C |
| 16 | 584 | 0.7 | 38 | L | 4.2 | -11 | 184 | -4.1 | -0.7 | -0.6 | 0 | C |
| 17 | 576 | 1.0 | 41 | L | 4.3 | -12 | 186 | -4.1 | -0.7 | -0.6 | 1 | C |
| 18 | 574 | 1.3 | 35 | L | 3.9 | -3 | 169 | -3.8 | 0.6 | -0.5 | 0 | C |
| 19 | 569 | 0.7 | 42 | L | 4.1 | 9 | 152 | -3.5 | 2.0 | 0.1 | 1 | C |
| 20 | 566 | 1.0 | 33 | L | 4.3 | -14 | 162 | -3.8 | 0.9 | -1.3 | 1 | C |
| 21 | 553 | 1.1 | 31 | L | 4.2 | -4 | 169 | -4.0 | 0.7 | -0.5 | 1 | C |
| 22 | 545 | 1.2 | 60 | C | 4.3 | 7 | 152 | -3.5 | 1.9 | 0.1 | 1 | C |
| 23 | 545 | 1.6 | 34 | C | 4.4 | 5 | 141 | -3.3 | 2.7 | -0.1 | 1 | C |
| 24 | 525 | 1.5 | 32 | C | 4.4 | -2 | 167 | -4.1 | 0.9 | -0.4 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 526 | 1.4 | 49 | C | 4.2 | -5 | 170 | -4.1 | 0.6 | -0.5 | 1 | C |
| 2 | 533 | 1.6 | 43 | C | 4.2 | -19 | 179 | -3.8 | -0.3 | -1.3 | 1 | C |
| 3 | 524 | 1.4 | 46 | C | 4.1 | -25 | 173 | -3.6 | -0.1 | -1.7 | 1 | C |
| 4 | 515 | 1.4 | 46 | C | 4.1 | -17 | 187 | -3.8 | -0.8 | -0.9 | 1 | C |
| 5 | 508 | 1.4 | 43 | C | 4.3 | -17 | 171 | -4.0 | 0.1 | -1.4 | 1 | C |
| 6 | 506 | 1.4 | 49 | C | 4.2 | -5 | 157 | -3.7 | 1.3 | -1.0 | 1 | C |
| 7 | 505 | 1.5 | 40 | C | 4.1 | -17 | 158 | -3.5 | 0.7 | -1.7 | 1 | C |
| 8 | 517 | 2.0 | 37 | C | 4.1 | -15 | 122 | -1.9 | 2.1 | -2.4 | 2 | C |
| 9 | 519 | 2.2 | 37 | C | 4.6 | -13 | 102 | -0.8 | 2.9 | -3.0 | 1 | C |
| 10 | 506 | 2.5 | 35 | C | 4.5 | 22 | 115 | -1.6 | 3.8 | -0.7 | 1 | C |
| 11 | 510 | 2.5 | 34 | C | 4.1 | 26 | 100 | -0.6 | 3.7 | -0.5 | 1 | C |
| 12 | 504 | 2.7 | 34 | C | 4.3 | 5 | 111 | -1.3 | 3.1 | -1.7 | 2 | C |
| 13 | 511 | 2.5 | 40 | C | 3.9 | 6 | 110 | -1.0 | 2.6 | -1.3 | 2 | C |
| 14 | 491 | 2.9 | 48 | C | 4.1 | 6 | 132 | -2.5 | 2.5 | -1.1 | 2 | C |
| 15 | 493 | 3.0 | 58 | C | 4.1 | -15 | 148 | -2.9 | 1.2 | -1.7 | 2 | C |
| 16 | 490 | 3.1 | 55 | C | 3.9 | -14 | 150 | -2.7 | 1.1 | -1.4 | 2 | C |
| 17 | 488 | 3.3 | 54 | C | 4.0 | -20 | 172 | -3.6 | -0.0 | -1.4 | 1 | C |
| 18 | 484 | 3.3 | 59 | C | 4.0 | -19 | 181 | -3.7 | -0.5 | -1.2 | 1 | C |
| 19 | 492 | 4.1 | 66 | C | 3.7 | -18 | 183 | -3.1 | -0.5 | -0.9 | 1 | C |
| 20 | 488 | 4.1 | 64 | C | 3.9 | 15 | 174 | -3.4 | 0.6 | 0.8 | 1 | C |
| 21 |  |  |  |  | 4.0 | -5 | 168 | -3.8 | 0.7 | -0.5 | 1 | C |
| 22 |  |  |  |  | 4.0 | -18 | 166 | -3.1 | 0.6 | -1.2 | 2 | C |
| 23 | 480 | 4.3 | 55 | C | 3.9 | -15 | 136 | -1.9 | 1.6 | -1.1 | 2 | C |
| 24 | 496 | 5.1 | 54 | C | 4.4 | 2 | 44 | 2.9 | 2.8 | -0.4 | 1 | C |

## OCT. 2, 1978 275

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 487 | 5.3 | 50 | C | 4.3 | 56 | 44 | 1.5 | 2.1 | 2.7 | 2 | C |
| 2 | 489 | 4.9 | 65 | C | 4.4 | 36 | 65 | 1.3 | 3.1 | 1.4 | 2 | C |
| 3 | 489 | 3.7 | 80 | C | 4.1 | -8 | 84 | 0.3 | 3.1 | -1.5 | 2 | C |
| 4 | 499 | 3.9 | 67 | C | 3.5 | 7 | 54 | 1.9 | 2.6 | -0.5 | 1 | C |
| 5 | 481 | 4.6 | 70 | C | 3.1 | 1 | 77 | 0.6 | 2.4 | -1.0 | 1 | C |
| 6 | 458 | 5.2 | 67 | C | 2.2 | 22 | 148 | -1.4 | 1.1 | 0.2 | 1 | C |
| 7 | 460 | 5.0 | 64 | C | 3.0 | 29 | 131 | -1.5 | 2.1 | 0.3 | 1 | C |
| 8 | 462 | 4.9 | 94 | A | 3.1 | 7 | 102 | -0.6 | 2.7 | -1.2 | 1 | C |
| 9 |  |  |  |  | 3.5 | -2 | 140 | -2.5 | 1.7 | -1.2 | 1 | C |
| 10 | 453 | 5.7 | 61 | C | 4.5 | -16 | 124 | -2.3 | 2.2 | -2.9 | 1 | C |
| 11 | 468 | 7.2 | 52 | C | 4.8 | 0 | 83 | 0.5 | 3.1 | -2.1 | 2 | C |
| 12 | 458 | 6.9 | 46 | C | 5.7 | -24 | 98 | -0.7 | 2.8 | -4.6 | 2 | C |
| 13 | 452 | 5.8 | 40 | C | 6.1 | -30 | 100 | -0.8 | 2.4 | -4.8 | 2 | C |
| 14 | 456 | 7.0 | 40 | C | 5.3 | 10 | 67 | 1.8 | 4.0 | -1.5 | 2 | C |
| 15 | 458 | 7.3 | 48 | C | 4.7 | -1 | 78 | 0.7 | 2.6 | -1.5 | 3 | C |
| 16 | 465 | 6.8 | 65 | C | 4.8 | 26 | 51 | 2.4 | 3.4 | 0.4 | 2 | C |
| 17 | 454 | 5.9 | 82 | C | 4.2 | 17 | 82 | 0.4 | 3.2 | -0.4 | 2 | C |
| 18 | 473 | 5.0 | 86 | C | 4.3 | 43 | 14 | 2.7 | 1.5 | 2.3 | 2 | C |
| 19 | 483 | 4.3 | 129 | C | 3.5 | 11 | 43 | 2.0 | 2.0 | -0.1 | 2 | C |
| 20 | 465 | 4.7 | 121 | C | 3.8 | 3 | 64 | 1.6 | 3.1 | -0.6 | 1 | C |
| 21 | 457 | 4.4 | 96 | C | 4.6 | 18 | 82 | 0.6 | 4.1 | 0.3 | 2 | C |
| 22 | 454 | 4.3 | 80 | C | 5.0 | 9 | 83 | 0.6 | 4.7 | -0.2 | 2 | C |
| 23 | 457 | 4.0 | 83 | C | 5.4 | -9 | 60 | 2.5 | 4.0 | -1.6 | 2 | C |
| 24 | 462 | 4.3 | 130 | L | 5.6 | 11 | 48 | 3.6 | 4.1 | 0.1 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 462 | 4.6 | 68 | C | 4.8 | -4 | 43 | 3.0 | 2.7 | -0.9 | 2 | C |
| 2 | 454 | 4.8 | 83 | C | 3.8 | 10 | 57 | 2.0 | 3.1 | -0.2 | 1 | C |
| 3 | 448 | 4.3 | 79 | C | 4.5 | 3 | 75 | 1.1 | 3.9 | -1.0 | 1 | C |
| 4 | 445 | 5.0 | 77 | C | 3.6 | -32 | 85 | 0.2 | 1.5 | -1.9 | 2 | C |
| 5 | 455 | 5.3 | 67 | C | 3.6 | -21 | 358 | 2.8 | -0.5 | -0.9 | 2 | C |
| 6 | 443 | 5.0 | 60 | C | 3.9 | -21 | 35 | 2.6 | 1.1 | -1.9 | 2 | C |
| 7 | 449 | 5.0 | 55 | C | 3.6 | 6 | 30 | 2.9 | 1.6 | -0.5 | 1 | C |
| 8 | 425 | 5.0 | 42 | C | 3.6 | -28 | 112 | -1.0 | 1.4 | -2.6 | 2 | C |
| 9 | 421 | 5.4 | 43 | C | 3.2 | -34 | 138 | -1.6 | 0.4 | -2.0 | 2 | C |
| 10 | 414 | 5.3 | 37 | C | 3.3 | -6 | 123 | -1.4 | 1.6 | -1.4 | 2 | C |
| 11 | 409 | 5.9 | 58 | L | 3.3 | -2 | 120 | -1.6 | 2.2 | -1.6 | 1 | C |
| 12 | 397 | 5.7 | 51 | L | 3.4 | 8 | 154 | -2.9 | 1.4 | -0.4 | 1 | C |
| 13 | 387 | 5.7 | 43 | J | 3.3 | -14 | 101 | -0.6 | 2.1 | -2.2 | 1 | C |
| 14 | 393 | 4.5 | 34 | J | 3.2 | -25 | 128 | -1.5 | 1.0 | -2.0 | 2 | C |
| 15 | 394 | 5.2 | 34 | J | 3.4 | -34 | 120 | -1.1 | 1.0 | -2.3 | 2 | J |
| 16 | 377 | 5.7 | 43 | J | 3.9 | 14 | 140 | -2.3 | 2.1 | -0.2 | 2 | J |
| 17 | 384 | 5.2 | 39 | J | 3.6 | -15 | 140 | -2.0 | 1.3 | -1.3 | 2 | J |
| 18 | 377 | 5.0 | 32 | J | 3.6 | 3 | 147 | -2.5 | 1.6 | -0.4 | 2 | J |
| 19 | 399 | 5.4 | 38 | J | 3.5 | -6 | 101 | -0.6 | 2.7 | -1.2 | 2 | J |
| 20 | 387 | 5.6 | 40 | J | 3.8 | -13 | 132 | -2.1 | 2.1 | -1.3 | 2 | J |
| 21 | 395 | 6.7 | 50 | J | 3.8 | -11 | 121 | -1.5 | 2.3 | -1.1 | 2 | J |
| 22 | 387 | 6.2 | 63 | J | 3.2 | -13 | 168 | -2.5 | 0.4 | -0.7 | 2 | J |
| 23 | 382 | 6.7 | 64 | J | 3.5 | -12 | 165 | -2.8 | 0.6 | -0.8 | 2 | J |
| 24 | 384 | 7.1 | 60 | J | 3.9 | -25 | 156 | -2.4 | 0.8 | -1.4 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 7.5 | 58 | J | 4.4 | -2 | 124 | -2.1 | 3.0 | -0.8 | 2 | J |
| 2 | 464 | 16.4 | 105 | J | 7.6 | -15 | 116 | -1.8 | 3.2 | -2.0 | 7 | J |
| 3 | 461 | 16.1 | 175 | J | 6.7 | 41 | 196 | -4.4 | -0.0 | 4.1 | 3 | J |
| 4 | 464 | 18.0 | 201 | J | 8.2 | 33 | 164 | -5.4 | 2.7 | 2.9 | 5 | J |
| 5 | 455 | 16.9 | 123 | J | 8.4 | -13 | 113 | -2.3 | 4.5 | -3.4 | 6 | J |
| 6 | 443 | 10.0 | 69 | J | 11.8 | 0 | 115 | -4.5 | 8.7 | -4.3 | 5 | J |
| 7 | 435 | 8.9 | 87 | J | 11.3 | 18 | 134 | -6.8 | 7.7 | -0.6 | 4 | J |
| 8 | 444 | 9.4 | 147 | J | 11.1 | 9 | 126 | -6.0 | 7.9 | -2.9 | 4 | J |
| 9 | 431 | 8.9 | 153 | J | 10.2 | 12 | 136 | -6.8 | 6.6 | -1.9 | 3 | J |
| 10 | 429 | 8.9 | 164 | J | 9.5 | -1 | 129 | -5.7 | 5.8 | -4.1 | 3 | J |
| 11 | 452 | 6.0 | 147 | J | 10.3 | -7 | 124 | -5.6 | 6.2 | -5.7 | 2 | J |
| 12 | 440 | 5.6 | 87 | J | 10.1 | 1 | 134 | -6.9 | 6.0 | -3.8 | 2 | J |
| 13 | 447 | 5.3 | 97 | J | 9.9 | -1 | 128 | -6.0 | 6.3 | -4.3 | 2 | J |
| 14 | 439 | 5.3 | 102 | J | 9.4 | 2 | 129 | -5.8 | 6.3 | -3.4 | 2 | J |
| 15 | 439 | 5.0 | 88 | J | 9.1 | 10 | 140 | -6.8 | 5.7 | -1.4 | 1 | J |
| 16 | 429 | 5.3 | 111 | J | 8.5 | 5 | 135 | -5.8 | 5.6 | -1.9 | 1 | J |
| 17 | 419 | 5.3 | 106 | J | 7.8 | 13 | 144 | -6.1 | 4.7 | -0.1 | 1 | J |
| 18 | 403 | 4.5 | 76 | J | 7.3 | 14 | 156 | -6.4 | 3.3 | 0.7 | 1 | J |
| 19 | 406 | 4.8 | 74 | C | 7.0 | 21 | 143 | -5.0 | 4.3 | 1.2 | 2 | J |
| 20 | 414 | 5.1 | 45 | J | 6.5 | -42 | 108 | -1.5 | 3.3 | -5.4 | 1 | J |
| 21 | 425 | 5.2 | 57 | J | 6.3 | -54 | 95 | -0.3 | 2.4 | -5.7 | 1 | J |
| 22 | 394 | 5.4 | 93 | A | 5.9 | -21 | 136 | -3.7 | 3.1 | -2.7 | 2 | C |
| 23 | 417 | 3.9 | 52 | C | 6.1 | -11 | 140 | -4.5 | 3.5 | -1.9 | 1 | C |
| 24 | 412 | 4.8 | 45 | J | 5.1 | -30 | 112 | -1.6 | 3.3 | -3.2 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 411 | 4.9 | 66 | J | 4.8 | -8 | 139 | -3.3 | 2.6 | -1.2 | 2 | J |
| 2 | 395 | 4.7 | 53 | J | 5.1 | -12 | 129 | -3.1 | 3.4 | -2.0 | 1 | J |
| 3 | 409 | 4.6 | 57 | J | 4.5 | 2 | 133 | -2.9 | 3.0 | -0.8 | 1 | J |
| 4 | 388 | 5.1 | 40 | J | 3.9 | -9 | 123 | -2.0 | 2.7 | -1.6 | 1 | J |
| 5 | 390 | 5.9 | 59 | J | 3.3 | 1 | 139 | -2.3 | 1.9 | -0.7 | 1 | J |
| 6 | 398 | 7.2 | 58 | J | 3.3 | 6 | 163 | -2.9 | 1.0 | -0.1 | 1 | J |
| 7 | 398 | 7.1 | 43 | J | 3.2 | -1 | 140 | -2.2 | 1.6 | -0.9 | 1 | J |
| 8 | 395 | 7.1 | 36 | J | 3.1 | -1 | 124 | -1.6 | 2.0 | -1.3 | 1 | J |
| 9 | 393 | 6.1 | 33 | J | 2.8 | -5 | 124 | -1.4 | 1.7 | -1.4 | 1 | J |
| 10 | 398 | 6.1 | 31 | J | 3.3 | 17 | 121 | -1.6 | 2.7 | -0.7 | 1 | J |
| 11 | 375 | 6.8 | 29 | J | 3.9 | 17 | 118 | -1.7 | 3.3 | -0.9 | 1 | J |
| 12 | 370 | 12.4 | 21 | J | 2.6 | -2 | 38 | 1.4 | 0.9 | -0.7 | 2 | J |
| 13 | 367 | 13.9 | 21 | J | 2.2 | -21 | 333 | 1.5 | -1.0 | -0.1 | 1 | J |
| 14 | 354 | 13.9 | 28 | J | 2.5 | -30 | 278 | 0.1 | -1.1 | 0.0 | 2 | J |
| 15 | 368 | 15.7 | 35 | J | 2.8 | -15 | 290 | 0.5 | -1.3 | 0.3 | 3 | J |
| 16 | 369 | 12.6 | 22 | J | 5.3 | 13 | 229 | -3.3 | -2.9 | 2.7 | 1 | J |
| 17 | 376 | 9.5 | 31 | J | 5.3 | 15 | 166 | -0.4 | 0.1 | 0.1 | 5 | J |
| 18 | 377 | 6.0 | 41 | J | 6.1 | 24 | 95 | -0.5 | 5.8 | 0.4 | 2 | C |
| 19 | 384 | 6.9 | 41 | J | 5.8 | 39 | 128 | -2.4 | 4.0 | 2.2 | 3 | C |
| 20 | 365 | 6.2 | 46 | C | 5.9 | 41 | 153 | -4.0 | 3.0 | 3.3 | 0 | C |
| 21 | 357 | 6.7 | 45 | C | 6.2 | 41 | 155 | -4.2 | 2.8 | 3.5 | 1 | C |
| 22 | 352 | 7.9 | 43 | C | 5.6 | 42 | 174 | -4.1 | 1.1 | 3.5 | 1 | C |
| 23 | 347 | 8.3 | 37 | C | 5.4 | 22 | 143 | -3.6 | 3.0 | 1.3 | 2 | C |
| 24 | 332 | 14.6 | 24 | C | 4.2 | 50 | 198 | -2.5 | -0.1 | 3.2 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 410 | 11.6 | 23 | C | 2.4 | 78 | 150 | -0.4 | 0.8 | 2.2 | 0 | C |
| 2 | 327 | 24.1 | 18 | J | 2.4 | 22 | 24 | 1.9 | 1.1 | 0.6 | 1 | J |
| 3 | 319 | 22.6 | 23 | J | 2.2 | 20 | 49 | 1.0 | 1.2 | 0.2 | 2 | J |
| 4 | 325 | 12.4 | 26 | J | 4.3 | 43 | 150 | -2.0 | 1.8 | 1.7 | 3 | J |
| 5 | 312 | 12.6 | 58 | A |  |  |  |  |  |  |  |  |
| 6 | 346 | 6.5 | 39 | J | 4.6 | -17 | 225 | -3.0 | -3.3 | 0.2 | 1 | J |
| 7 | 352 | 8.4 | 18 | J | 4.5 | 33 | 120 | -0.7 | 1.4 | 0.2 | 4 | J |
| 8 | 335 | 14.0 | 15 | C | 4.2 | -26 | 244 | -1.7 | -3.9 | 0.2 | 1 | J |
| 9 | 340 | 10.8 | 22 | C | 4.8 | 16 | 229 | -3.0 | -2.2 | 2.9 | 1 | J |
| 10 | 356 | 7.3 | 44 | J | 4.4 | 47 | 195 | -2.0 | 0.8 | 2.1 | 3 | J |
| 11 | 359 | 6.5 | 72 | J | 4.6 | 43 | 178 | -3.3 | 1.8 | 2.5 | 1 | J |
| 12 | 351 | 6.8 | 123 | J | 4.4 | 23 | 195 | -3.6 | 0.1 | 1.9 | 1 | J |
| 13 | 359 | 6.0 | 76 | J | 4.2 | -16 | 209 | -3.2 | -2.1 | 0.1 | 2 | J |
| 14 | 368 | 5.4 | 51 | J | 4.0 | 1 | 239 | -1.9 | -2.6 | 1.6 | 2 | J |
| 15 | 372 | 5.7 | 58 | J | 3.8 | 16 | 226 | -1.5 | -1.0 | 1.3 | 3 | J |
| 16 | 357 | 6.5 | 52 | C | 3.7 | -55 | 109 | -0.6 | 0.4 | -3.0 | 2 | C |
| 17 | 353 | 7.0 | 57 | C | 3.8 | -72 | 244 | -0.5 | -2.2 | -2.7 | 2 | J |
| 18 | 337 | 7.1 | 50 | C | 3.0 | 6 | 197 | -2.2 | -0.5 | 0.5 | 2 | J |
| 19 | 522 | 5.6 | 157 | C | 3.4 | 14 | 199 | -3.0 | -0.8 | 1.1 | 1 | J |
| 20 | 341 | 5.0 | 26 | J | 3.5 | 4 | 153 | -2.2 | 1.1 | -0.1 | 3 | J |
| 21 | 338 | 5.5 | 33 | J | 3.6 | -16 | 156 | -2.8 | 1.0 | -1.1 | 2 | J |
| 22 | 342 | 5.9 | 36 | J | 4.1 | -7 | 129 | -2.4 | 2.8 | -1.1 | 1 | J |
| 23 | 344 | 5.8 | 34 | J | 4.0 | -34 | 156 | -2.7 | 0.8 | -2.2 | 2 | J |
| 24 | 349 | 6.1 | 45 | J | 3.8 | -57 | 157 | -1.8 | 0.1 | -3.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 329 | 7.3 | 34 | C | 4.2 | -21 | 192 | -3.4 | -1.0 | -1.1 | 2 | C |
| 2 | 336 | 5.9 | 29 | J | 3.9 | -11 | 206 | -3.0 | -1.6 | -0.3 | 2 | J |
| 3 | 327 | 5.5 | 32 | J | 4.0 | -11 | 185 | -3.8 | -0.5 | -0.6 | 1 | J |
| 4 | 332 | 5.6 | 26 | J | 4.2 | -32 | 180 | -3.4 | -0.7 | -2.0 | 1 | J |
| 5 | 334 | 7.2 | 19 | J | 3.9 | -33 | 169 | -3.1 | -0.2 | -2.1 | 1 | J |
| 6 | 329 | 7.1 | 24 | C | 3.3 | 2 | 153 | -2.7 | 1.3 | -0.5 | 1 | J |
| 7 | 332 | 11.0 | 14 | J | 2.7 | -15 | 160 | -2.5 | 0.4 | -1.0 | 0 | J |
| 8 | 321 | 8.1 | 11 | J | 3.0 | -26 | 160 | -2.4 | 0.1 | -1.5 | 1 | J |
| 9 | 319 | 11.9 | 11 | C | 3.5 | -59 | 192 | -1.8 | -1.9 | -2.3 | 1 | C |
| 10 | 310 | 13.3 | 11 | C | 3.3 | -36 | 175 | -2.5 | -0.9 | -1.6 | 1 | C |
| 11 | 307 | 12.4 | 10 | C | 3.8 | -61 | 247 | -0.6 | -2.7 | -1.5 | 2 | J |
| 12 | 307 | 12.5 | 11 | C | 3.3 | -42 | 168 | -2.0 | -0.7 | -1.7 | 2 | C |
| 13 | 312 | 12.6 | 11 | C | 3.6 | -55 | 177 | -1.8 | -1.3 | -2.3 | 2 | C |
| 14 | 333 | 10.2 | 23 | C | 5.6 | -34 | 303 | 2.0 | -3.9 | -0.5 | 3 | J |
| 15 | 331 | 12.0 | 19 | J | 5.9 | -5 | 305 | 3.2 | -4.3 | 1.7 | 2 | J |
| 16 | 331 | 10.9 | 16 | J | 6.3 | -1 | 299 | 3.0 | -5.0 | 2.2 | 1 | C |
| 17 | 319 | 11.9 | 19 | C | 6.2 | 10 | 308 | 3.7 | -4.0 | 2.8 | 1 | C |
| 18 | 323 | 9.0 | 24 | C | 6.6 | 24 | 312 | 4.0 | -3.2 | 4.0 | 1 | C |
| 19 | 315 | 8.9 | 23 | C | 6.7 | 3 | 320 | 5.0 | -3.9 | 1.6 | 1 | C |
| 20 | 329 | 12.4 | 22 | J | 4.2 | 15 | 305 | 2.3 | -2.9 | 1.9 | 1 | J |
| 21 | 338 | 10.5 | 22 | J | 4.3 | -59 | 262 | -0.1 | -1.3 | -1.4 | 4 | J |
| 22 | 339 | 10.3 | 21 | J | 5.0 | 1 | 317 | 3.6 | -3.3 | 0.8 | 1 | J |
| 23 | 337 | 12.1 | 16 | J | 4.5 | 45 | 315 | 2.1 | -1.5 | 3.4 | 1 | J |
| 24 | 327 | 13.0 | 18 | C | 4.5 | 49 | 315 | 2.1 | -1.4 | 3.7 | 0 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 327 | 8.2 | 25 | C | 5.9 | 17 | 330 | 4.9 | -2.4 | 2.3 | 0 | C |
| 2 | 333 | 7.0 | 14 | J | 6.1 | 27 | 335 | 4.8 | -1.5 | 3.2 | 1 | J |
| 3 | 340 | 8.3 | 28 | J | 5.6 | -22 | 338 | 4.7 | -2.4 | -1.4 | 1 | J |
| 4 | 339 | 7.8 | 18 | J | 5.7 | -32 | 348 | 4.7 | -2.0 | -2.5 | 1 | J |
| 5 | 347 | 9.0 | 22 | J | 5.2 | -41 | 13 | 3.5 | -0.5 | -3.2 | 2 | J |
| 6 | 341 | 10.2 | 22 | C | 5.2 | -57 | 30 | 2.2 | -0.6 | -4.2 | 2 | C |
| 7 | 329 | 10.5 | 24 | C | 5.0 | -11 | 328 | 4.0 | -2.7 | 0.4 | 1 | C |
| 8 | 342 | 10.1 | 25 | C | 4.2 | 25 | 321 | 2.8 | -1.1 | 2.6 | 1 | C |
| 9 | 353 | 13.9 | 22 | C | 3.1 | 33 | 164 | -2.1 | 1.3 | 0.9 | 2 | C |
| 10 | 358 | 12.9 | 29 | C | 2.3 | 34 | 147 | -1.3 | 1.3 | 0.4 | 1 | C |
| 11 | 353 | 11.8 | 27 | C | 4.7 | -12 | 142 | -3.6 | 1.7 | -2.3 | 1 | C |
| 12 | 374 | 16.9 | 22 | J | 2.3 | -18 | 314 | 1.4 | -1.6 | 0.3 | 1 | J |
| 13 | 371 | 17.5 | 21 | J | 1.8 | 30 | 286 | 0.4 | -0.7 | 1.5 | 1 | J |
| 14 | 374 | 14.9 | 25 | J | 2.4 | 40 | 107 | -0.4 | 1.6 | 0.3 | 2 | J |
| 15 | 344 | 11.3 | 28 | C | 3.9 | 13 | 153 | -3.3 | 1.9 | -0.0 | 1 | C |
| 16 | 339 | 11.2 | 28 | C | 4.1 | 4 | 164 | -3.9 | 1.1 | -0.2 | 0 | C |
| 17 | 339 | 11.3 | 27 | C | 4.2 | -7 | 165 | -4.0 | 0.8 | -0.9 | 1 | C |
| 18 | 347 | 14.1 | 31 | C | 2.5 | 27 | 29 | 1.9 | 1.4 | 0.7 | 0 | J |
| 19 | 365 | 18.7 | 31 | C | 2.3 | 23 | 41 | 1.4 | 1.4 | 0.4 | 1 | J |
| 20 | 353 | 16.5 | 28 | C | 2.5 | 0 | 233 | -1.1 | -1.5 | 0.4 | 2 | J |
| 21 | 368 | 14.9 | 46 | J | 4.6 | 26 | 347 | 3.1 | -0.4 | 1.7 | 3 | J |
| 22 | 350 | 12.2 | 27 | J | 5.6 | -10 | 75 | 1.4 | 5.0 | -2.0 | 1 | J |
| 23 | 348 | 8.1 | 23 | J | 6.3 | -1 | 76 | 1.5 | 6.0 | -1.3 | 1 | J |
| 24 | 347 | 13.8 | 38 | C | 3.7 | 48 | 342 | 2.0 | -0.2 | 2.4 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 333 | 6.4 | 43 | J | 6.7 | 21 | 315 | 4.4 | -3.8 | 3.3 | 0 | J |
| 2 | 333 | 6.7 | 46 | J | 6.9 | 24 | 312 | 4.2 | -3.8 | 3.9 | 0 | J |
| 3 | 319 | 7.6 | 38 | C | 7.0 | 23 | 315 | 4.6 | -3.5 | 3.9 | 0 | C |
| 4 | 358 | 9.6 | 54 | C | 10.6 | 22 | 306 | 5.6 | -6.0 | 6.4 | 3 | C |
| 5 | 377 | 21.6 | 44 | C | 8.5 | 67 | 101 | -0.3 | 2.9 | 2.9 | 8 | C |
| 6 | 380 | 35.7 | 49 | J | 3.7 | -27 | 174 | -1.3 | -0.2 | -0.7 | 4 | J |
| 7 | 378 | 36.2 | 32 | J | 5.5 | 25 | 269 | -0.1 | -3.0 | 4.1 | 2 | J |
| 8 | 364 | 24.5 | 36 | J | 8.8 | 23 | 126 | -4.7 | 7.2 | -0.4 | 2 | J |
| 9 | 357 | 24.6 | 40 | J | 8.6 | -1 | 131 | -5.6 | 5.3 | -3.6 | 1 | J |
| 10 | 365 | 26.3 | 41 | J | 9.1 | -89 | 37 | 0.1 | -3.1 | -4.7 | 7 | J |
| 11 | 362 | 16.5 | 42 | J | 10.9 | -33 | 308 | 5.4 | -9.0 | -0.8 | 3 | J |
| 12 | 360 | 13.5 | 73 | J | 10.4 | -6 | 314 | 6.0 | -5.7 | 2.7 | 6 | J |
| 13 | 380 | 12.4 | 95 | J | 10.4 | 56 | 307 | 3.0 | 0.6 | 8.5 | 5 | J |
| 14 | 400 | 13.7 | 82 | J | 10.2 | 76 | 301 | 1.2 | 3.1 | 9.3 | 2 | J |
| 15 | 387 | 13.3 | 82 | J | 10.2 | 50 | 295 | 2.7 | -1.5 | 9.6 | 2 | J |
| 16 | 376 | 13.8 | 71 | J | 10.1 | 25 | 303 | 4.9 | -5.1 | 7.1 | 2 | J |
| 17 | 403 | 10.6 | 73 | J | 11.3 | 66 | 159 | -1.7 | 2.2 | 3.6 | 10 | J |
| 18 | 409 | 10.4 | 53 | J | 11.7 | 17 | 125 | -6.3 | 9.5 | 0.2 | 3 | J |
| 19 | 410 | 14.1 | 52 | J | 11.1 | 38 | 150 | -6.8 | 5.5 | 4.7 | 5 | J |
| 20 | 399 | 16.4 | 41 | J | 10.7 | 37 | 159 | -7.3 | 4.2 | 5.0 | 4 | J |
| 21 | 392 | 21.2 | 34 | J | 9.7 | 24 | 126 | -5.0 | 7.6 | 2.2 | 2 | J |
| 22 | 391 | 19.3 | 45 | J | 9.4 | -5 | 121 | -2.8 | 4.4 | -1.4 | 8 | J |
| 23 | 381 | 15.1 | 29 | J | 10.3 | -59 | 339 | 4.9 | -3.5 | -8.1 | 2 | J |
| 24 | 377 | 9.8 | 39 | J | 10.6 | -52 | 318 | 4.8 | -5.8 | -7.2 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 10.9 | 53 | J | 9.3 | -55 | 320 | 3.9 | -4.8 | -6.4 | 3 | J |
| 2 | 358 | 11.0 | 58 | C | 9.2 | -54 | 336 | 4.9 | -3.9 | -6.6 | 1 | J |
| 3 | 364 | 11.3 | 61 | C | 8.9 | -59 | 342 | 4.3 | -3.5 | -6.8 | 2 | J |
| 4 | 376 | 8.1 | 66 | C | 8.8 | -20 | 327 | 6.6 | -5.0 | -1.3 | 2 | J |
| 5 | 378 | 8.0 | 70 | C | 9.0 | -23 | 320 | 6.3 | -6.2 | -1.2 | 1 | J |
| 6 | 403 | 7.6 | 68 | J | 9.0 | -14 | 313 | 5.6 | -6.3 | 0.8 | 3 | J |
| 7 | 415 | 6.7 | 82 | J | 7.7 | -4 | 320 | 4.9 | -3.8 | 1.6 | 4 | J |
| 8 | 419 | 6.9 | 91 | J | 7.7 | -5 | 315 | 4.3 | -4.0 | 1.8 | 5 | J |
| 9 | 416 | 7.1 | 88 | J | 7.8 | 21 | 335 | 5.2 | -0.9 | 3.2 | 5 | J |
| 10 | 426 | 7.5 | 103 | J | 7.6 | 16 | 308 | 3.6 | -2.9 | 3.9 | 5 | J |
| 11 | 428 | 8.0 | 137 | J | 7.1 | -57 | 342 | 3.3 | -3.9 | -3.8 | 3 | J |
| 12 | 407 | 6.7 | 58 | J | 7.1 | -20 | 338 | 5.5 | -3.0 | -0.6 | 3 | J |
| 13 | 438 | 6.8 | 62 | J | 7.2 | 25 | 282 | 1.1 | -3.1 | 4.9 | 4 | J |
| 14 | 430 | 7.0 | 80 | J | 7.1 | 21 | 294 | 2.2 | -3.3 | 4.4 | 4 | J |
| 15 | 438 | 6.4 | 75 | J | 6.9 | 30 | 286 | 1.5 | -3.1 | 5.2 | 3 | J |
| 16 | 448 | 6.9 | 79 | J | 6.8 | 15 | 268 | -0.2 | -4.7 | 3.9 | 3 | J |
| 17 | 442 | 6.5 | 60 | J | 7.0 | 10 | 273 | 0.3 | -5.2 | 3.3 | 3 | J |
| 18 | 419 | 5.9 | 50 | J | 7.1 | 25 | 294 | 2.5 | -4.3 | 4.5 | 2 | J |
| 19 | 414 | 5.5 | 50 | C | 7.3 | 42 | 296 | 2.3 | -3.1 | 5.9 | 1 | C |
| 20 | 385 | 6.3 | 53 | J | 7.1 | -46 | 336 | 4.4 | -3.1 | -4.3 | 1 | J |
| 21 | 380 | 6.3 | 41 | J | 6.9 | -34 | 344 | 5.2 | -2.2 | -3.2 | 2 | J |
| 22 | 395 | 7.5 | 92 | J | 5.9 | 19 | 330 | 4.3 | -2.1 | 2.2 | 3 | J |
| 23 | 388 | 6.8 | 83 | J | 6.3 | 4 | 320 | 4.5 | -3.6 | 1.1 | 2 | J |
| 24 | 398 | 7.1 | 95 | J | 6.8 | 1 | 312 | 4.4 | -4.8 | 1.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 6.6 | 78 | J | 7.3 | -12 | 298 | 3.0 | -5.9 | -0.1 | 3 | J |
| 2 | 395 | 6.1 | 70 | J | 7.5 | -25 | 318 | 4.8 | -5.0 | -1.9 | 2 | J |
| 3 | 395 | 5.9 | 63 | C | 7.7 | 12 | 300 | 3.6 | -5.5 | 3.2 | 2 | J |
| 4 | 394 | 5.5 | 59 | C | 7.6 | 9 | 304 | 4.0 | -5.3 | 3.1 | 2 | C |
| 5 | 395 | 5.6 | 58 | C | 7.5 | 23 | 301 | 3.4 | -4.2 | 4.9 | 2 | C |
| 6 | 401 | 5.9 | 68 | J | 7.4 | -33 | 341 | 5.2 | -3.1 | -2.4 | 3 | J |
| 7 | 391 | 5.7 | 59 | J | 7.3 | -5 | 330 | 5.8 | -3.2 | 1.1 | 3 | J |
| 8 | 395 | 5.9 | 72 | J | 7.3 | -32 | 349 | 5.1 | -2.5 | -2.3 | 4 | J |
| 9 | 429 | 6.5 | 77 | J | 8.1 | 11 | 322 | 4.5 | -2.4 | 2.8 | 6 | J |
| 10 | 419 | 6.4 | 78 | J | 8.1 | -17 | 314 | 4.7 | -5.1 | 1.0 | 4 | J |
| 11 | 413 | 7.0 | 67 | J | 9.0 | 38 | 359 | 6.0 | 2.5 | 3.9 | 5 | J |
| 12 | 393 | 6.5 | 72 | C | 9.1 | 29 | 13 | 7.2 | 3.7 | 2.5 | 3 | J |
| 13 | 386 | 6.5 | 58 | C | 9.5 | 57 | 45 | 3.7 | 7.3 | 4.8 | 0 | J |
| 14 | 369 | 7.7 | 43 | C | 9.3 | 1 | 330 | 7.8 | -3.9 | 2.4 | 1 | C |
| 15 | 372 | 10.4 | 32 | C | 8.8 | 27 | 12 | 6.9 | 3.0 | 2.4 | 4 | C |
| 16 | 357 | 10.7 | 69 | J | 7.2 | 4 | 346 | 6.5 | -1.3 | 1.1 | 3 | J |
| 17 | 391 | 7.9 | 75 | J | 7.3 | 16 | 358 | 6.7 | 0.5 | 1.9 | 2 | J |
| 18 | 406 | 7.6 | 60 | J | 7.4 | 8 | 343 | 6.6 | -1.6 | 1.6 | 2 | J |
| 19 | 413 | 5.7 | 35 | J | 8.0 | 4 | 327 | 6.5 | -3.9 | 1.7 | 2 | J |
| 20 | 412 | 6.4 | 36 | J | 8.1 | 0 | 350 | 7.9 | -1.3 | 0.3 | 1 | J |
| 21 | 413 | 6.2 | 40 | J | 7.4 | -3 | 336 | 6.7 | -3.0 | 0.3 | 1 | J |
| 22 | 418 | 6.3 | 37 | J | 7.5 | 4 | 321 | 5.7 | -4.5 | 1.4 | 1 | J |
| 23 | 415 | 5.9 | 30 | J | 7.5 | -7 | 318 | 5.5 | -5.0 | 0.0 | 1 | J |
| 24 | 395 | 7.5 | 90 | J | 6.6 | 0 | 328 | 5.4 | -3.3 | 0.7 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 392 | 8.2 | 78 | J | 6.2 | -4 | 323 | 4.9 | -3.7 | 0.4 | 1 | J |
| 2 | 391 | 8.9 | 64 | J | 6.1 | -1 | 311 | 3.9 | -4.3 | 1.0 | 2 | J |
| 3 | 385 | 9.7 | 77 | J | 6.7 | -4 | 310 | 4.0 | -4.7 | 1.0 | 2 | J |
| 4 | 383 | 12.5 | 54 | J | 6.2 | -1 | 307 | 3.5 | -4.4 | 1.4 | 2 | J |
| 5 | 389 | 13.2 | 52 | J | 8.6 | 17 | 312 | 4.9 | -4.1 | 4.1 | 4 | C |
| 6 | 407 | 8.5 | 58 | C | 8.9 | 17 | 324 | 6.6 | -3.2 | 4.3 | 3 | C |
| 7 | 432 | 8.6 | 67 | C | 8.4 | 10 | 307 | 4.8 | -5.0 | 4.2 | 1 | C |
| 8 | 430 | 8.3 | 73 | C | 7.6 | 3 | 293 | 2.7 | -5.4 | 3.6 | 2 | C |
| 9 | 441 | 8.0 | 75 | C | 6.9 | -12 | 279 | 1.0 | -6.1 | 2.3 | 1 | C |
| 10 | 448 | 8.3 | 76 | C | 6.7 | -21 | 277 | 0.5 | -4.8 | 1.1 | 4 | C |
| 11 | 442 | 9.1 | 79 | C | 6.4 | 23 | 290 | 1.5 | -2.5 | 4.0 | 4 | C |
| 12 | 450 | 8.8 | 83 | C | 6.8 | -33 | 255 | -0.9 | -4.2 | -0.0 | 5 | C |
| 13 | 459 | 9.3 | 78 | C | 6.8 | -53 | 175 | -3.7 | -2.4 | -4.4 | 2 | C |
| 14 | 467 | 9.5 | 105 | C | 5.9 | -50 | 176 | -2.7 | -1.5 | -2.9 | 4 | C |
| 15 | 470 | 11.3 | 91 | C | 7.8 | -58 | 169 | -2.6 | -1.5 | -4.0 | 6 | C |
| 16 | 473 | 14.4 | 118 | L | 9.1 | -28 | 160 | -7.5 | 0.7 | -4.9 | 1 | C |
| 17 | 444 | 12.8 | 85 | A | | | | | | | | |
| 18 | 445 | 13.2 | 135 | A | | | | | | | | |
| 19 | 401 | 17.1 | 71 | C | 6.8 | -18 | 24 | 5.2 | 1.7 | -2.4 | 3 | C |
| 20 | 409 | 16.8 | 70 | C | 8.1 | -71 | 67 | 0.7 | 0.3 | -5.5 | 5 | C |
| 21 | 439 | 9.0 | 122 | C | 9.5 | 33 | 348 | 4.3 | -0.3 | 2.9 | 8 | C |
| 22 | 436 | 6.4 | 124 | C | 10.9 | 35 | 318 | 6.2 | -4.4 | 7.0 | 3 | C |
| 23 | 428 | 7.8 | 127 | C | 10.0 | 23 | 297 | 3.8 | -6.7 | 4.9 | 3 | C |
| 24 | 448 | 10.3 | 125 | C | 9.8 | -24 | 279 | 1.3 | -8.6 | -2.1 | 3 | C |

OCT. 13, 1978 286

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 446 | 10.7 | 105 | C | 9.1 | -3 | 287 | 2.4 | -7.7 | 1.2 | 3 | C |
| 2 | 453 | 9.3 | 84 | C | 9.8 | -5 | 277 | 1.1 | -9.1 | 1.5 | 2 | C |
| 3 | 450 | 9.8 | 128 | A | | | | | | | | |
| 4 | 475 | 8.7 | 119 | A | | | | | | | | |
| 5 | 463 | 8.0 | 104 | A | | | | | | | | |
| 6 | 461 | 9.6 | 58 | C | 7.6 | -15 | 52 | 2.2 | 2.1 | -2.1 | 6 | C |
| 7 | 481 | 8.8 | 54 | C | 9.2 | 11 | 260 | -0.5 | -2.4 | 1.9 | 8 | C |
| 8 | 479 | 9.0 | 74 | C | 9.0 | 34 | 300 | 1.0 | -0.8 | 2.0 | 8 | C |
| 9 | 461 | 9.2 | 86 | C | 8.5 | 25 | 333 | 6.5 | -0.9 | 4.6 | 3 | C |
| 10 | 486 | 10.1 | 110 | L | 9.0 | 16 | 325 | 6.9 | -2.6 | 4.7 | 2 | C |
| 11 | 468 | 7.8 | 91 | C | 9.3 | 27 | 349 | 7.7 | 1.0 | 4.2 | 3 | C |
| 12 | 470 | 7.5 | 88 | C | 10.4 | 21 | 327 | 8.0 | -2.3 | 5.9 | 2 | C |
| 13 | 479 | 6.6 | 79 | C | 11.2 | 29 | 0 | 9.2 | 2.7 | 4.2 | 3 | C |
| 14 | 468 | 6.5 | 80 | C | 11.0 | 19 | 360 | 10.2 | 1.7 | 3.2 | 2 | C |
| 15 | 455 | 6.5 | 92 | C | 9.7 | 9 | 337 | 8.8 | -2.6 | 3.1 | 1 | C |
| 16 | 471 | 6.1 | 99 | C | 8.6 | 7 | 313 | 5.6 | -5.1 | 3.4 | 2 | C |
| 17 | 448 | 5.7 | 85 | C | 8.5 | 3 | 340 | 7.8 | -2.5 | 1.4 | 1 | C |
| 18 | 458 | 5.5 | 79 | C | 8.5 | -3 | 326 | 6.5 | -4.3 | 1.1 | 3 | C |
| 19 | | | | | 7.8 | 5 | 282 | 1.6 | -7.0 | 2.7 | 1 | C |
| 20 | 468 | 5.8 | 84 | C | 7.9 | 3 | 335 | 3.8 | -5.1 | 1.6 | 4 | C |
| 21 | 470 | 6.0 | 88 | C | 9.5 | -8 | 304 | 4.7 | -7.0 | 0.2 | 4 | C |
| 22 | 491 | 6.2 | 82 | C | 10.5 | -13 | 288 | 2.9 | -9.3 | 0.0 | 4 | C |
| 23 | 470 | 5.5 | 77 | C | 12.3 | 12 | 319 | 8.8 | -7.1 | 4.0 | 3 | C |
| 24 | 481 | 6.5 | 60 | C | 11.2 | 10 | 1 | 10.9 | 0.5 | 1.9 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 477 | 6.7 | 63 | C | 10.7 | 6 | 18 | 9.8 | 3.3 | 0.5 | 2 | C |
| 2 | 491 | 6.7 | 78 | C | 9.6 | 2 | 16 | 9.0 | 2.7 | -0.3 | 1 | C |
| 3 | 489 | 6.6 | 84 | C | 8.1 | 10 | 4 | 7.8 | 0.9 | 1.2 | 2 | C |
| 4 | 501 | 6.3 | 124 | C | 6.7 | -8 | 9 | 6.4 | 0.6 | -1.2 | 1 | C |
| 5 | 493 | 4.7 | 86 | C | 7.1 | -5 | 358 | 6.8 | -0.4 | -0.5 | 2 | C |
| 6 | 484 | 4.9 | 101 | C | 6.5 | -5 | 338 | 5.8 | -2.4 | 0.6 | 1 | C |
| 7 | 491 | 4.3 | 75 | C | 6.5 | 6 | 340 | 6.0 | -1.6 | 1.7 | 1 | C |
| 8 | 468 | 4.4 | 77 | C | 6.9 | 14 | 337 | 6.1 | -1.4 | 2.7 | 1 | C |
| 9 | 493 | 4.1 | 61 | C | 7.2 | 2 | 342 | 6.8 | -1.8 | 1.4 | 1 | C |
| 10 | 455 | 4.1 | 56 | C | 7.0 | 4 | 351 | 6.8 | -0.6 | 0.9 | 1 | C |
| 11 | 491 | 4.4 | 46 | C | 6.8 | 14 | 353 | 6.6 | 0.2 | 1.8 | 0 | C |
| 12 | 491 | 4.8 | 64 | C | 6.8 | 6 | 337 | 6.1 | -1.7 | 2.0 | 1 | C |
| 13 | 453 | 4.5 | 68 | C | 6.7 | 2 | 317 | 4.8 | -3.7 | 2.6 | 1 | C |
| 14 | 482 | 4.6 | 74 | C | 6.4 | -9 | 279 | 1.0 | -5.8 | 2.2 | 1 | C |
| 15 | 485 | 4.6 | 76 | C | 6.1 | -10 | 282 | 1.2 | -5.6 | 1.8 | 1 | C |
| 16 | 454 | 4.8 | 68 | C | 6.1 | -6 | 309 | 3.6 | -4.3 | 1.3 | 1 | C |
| 17 | 437 | 6.2 | 54 | C | 7.8 | -14 | 262 | -1.0 | -7.1 | 1.0 | 3 | C |
| 18 | 471 | 6.1 | 54 | C | 7.5 | -8 | 271 | 0.1 | -5.9 | 1.1 | 4 | C |
| 19 | 452 | 5.7 | 60 | C | 7.4 | 5 | 321 | 5.1 | -3.8 | 1.7 | 3 | C |
| 20 | 451 | 5.0 | 85 | C | 6.5 | 6 | 326 | 4.7 | -3.0 | 1.4 | 3 | C |
| 21 | 458 | 4.7 | 82 | C | 5.7 | 0 | 325 | 4.0 | -2.8 | 0.6 | 2 | C |
| 22 | 488 | 4.9 | 87 | C | 5.5 | 7 | 260 | -0.6 | -3.2 | 1.0 | 4 | C |
| 23 | 478 | 4.5 | 84 | C | 5.0 | 12 | 298 | 0.8 | -1.3 | 0.6 | 4 | C |
| 24 | 443 | 4.5 | 72 | C | 5.5 | 10 | 3 | 5.0 | 0.4 | 0.8 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 485 | 4.8 | 92 | C | 4.7 | -1 | 250 | -1.3 | -3.5 | 0.6 | 2 | C |
| 2 | 484 | 4.1 | 72 | C | 5.0 | 16 | 278 | 0.6 | -4.1 | 2.4 | 1 | C |
| 3 | 486 | 4.0 | 66 | C | 3.9 | 33 | 266 | -0.2 | -2.3 | 2.7 | 1 | C |
| 4 | 477 | 4.1 | 66 | C | 3.7 | 17 | 250 | -1.1 | -2.5 | 1.9 | 1 | C |
| 5 | 466 | 4.6 | 61 | C | 3.8 | 4 | 235 | -1.9 | -2.5 | 1.3 | 1 | C |
| 6 | 467 | 4.2 | 61 | C | 4.4 | -12 | 245 | -1.5 | -3.3 | 0.7 | 2 | C |
| 7 | 442 | 4.8 | 65 | C | 4.5 | 27 | 359 | 3.6 | 0.8 | 1.7 | 2 | C |
| 8 | 456 | 4.7 | 58 | C | 4.2 | 17 | 263 | -0.3 | -2.0 | 2.2 | 3 | C |
| 9 | 462 | 4.6 | 55 | C | 3.8 | 23 | 191 | -2.9 | 0.2 | 1.4 | 2 | C |
| 10 | 455 | 5.2 | 41 | C | 5.2 | 44 | 198 | -3.4 | 1.0 | 3.5 | 1 | C |
| 11 | 454 | 4.9 | 41 | C | 5.3 | 44 | 218 | -2.9 | 0.0 | 4.2 | 1 | C |
| 12 | 451 | 5.4 | 40 | C | 4.5 | 5 | 214 | -3.7 | -1.9 | 1.6 | 1 | C |
| 13 | 420 | 5.2 | 82 | A | | | | | | | | |
| 14 | 417 | 6.1 | 31 | J | 4.8 | -3 | 5 | 4.8 | 0.2 | -0.4 | 1 | J |
| 15 | 410 | 5.7 | 51 | C | 4.7 | -7 | 3 | 4.4 | -0.0 | -0.6 | 2 | J |
| 16 | 406 | 5.8 | 40 | J | 4.1 | 4 | 0 | 4.0 | 0.1 | 0.3 | 1 | J |
| 17 | 414 | 6.9 | 65 | L | 4.7 | 25 | 14 | 4.1 | 1.6 | 1.5 | 1 | C |
| 18 | 419 | 8.7 | 102 | J | 4.3 | 19 | 17 | 3.5 | 1.4 | 0.9 | 2 | J |
| 19 | 432 | 7.8 | 76 | J | 3.7 | 4 | 346 | 1.7 | -0.4 | 0.2 | 3 | J |
| 20 | 420 | 7.3 | 75 | J | 4.5 | 38 | 351 | 3.1 | 0.1 | 2.5 | 2 | J |
| 21 | 421 | 5.6 | 71 | J | 4.7 | 24 | 19 | 4.0 | 1.7 | 1.6 | 1 | J |
| 22 | 416 | 6.0 | 52 | J | 4.3 | -3 | 21 | 3.3 | 1.2 | -0.4 | 3 | J |
| 23 | 419 | 7.4 | 77 | J | 2.7 | -6 | 333 | 1.0 | -0.5 | -0.0 | 3 | J |
| 24 | 423 | 7.8 | 73 | J | 2.9 | -43 | 308 | 0.7 | -1.0 | -0.8 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 453 | 6.2 | 69 | J | 3.0 | -32 | 9 | 2.1 | 0.1 | -1.4 | 2 | J |
| 2 | 448 | 2.5 | 94 | J | 4.4 | 16 | 69 | 1.4 | 3.9 | 0.2 | 1 | J |
| 3 | 414 | 7.1 | 52 | J | 2.6 | 13 | 15 | 1.1 | 0.4 | 0.2 | 2 | J |
| 4 | 409 | 7.1 | 43 | J | 4.0 | 6 | 3 | 3.4 | 0.3 | 0.3 | 2 | J |
| 5 | 404 | 6.6 | 40 | J | 4.4 | 27 | 351 | 3.8 | 0.2 | 2.0 | 1 | J |
| 6 | 426 | 6.7 | 49 | J | 4.5 | 26 | 287 | 1.1 | -2.4 | 3.1 | 2 | J |
| 7 | 420 | 5.5 | 43 | C | 4.6 | 9 | 231 | -2.8 | -2.7 | 2.3 | 1 | C |
| 8 | 417 | 5.4 | 39 | J | 4.2 | 2 | 235 | -2.2 | -2.7 | 1.7 | 1 | J |
| 9 | 425 | 6.1 | 35 | J | 4.4 | -13 | 238 | -2.2 | -3.4 | 1.0 | 1 | J |
| 10 | 424 | 6.3 | 35 | J | 4.4 | -5 | 228 | -2.9 | -2.9 | 1.4 | 1 | J |
| 11 | 426 | 6.4 | 40 | J | 4.1 | -12 | 218 | -3.1 | -2.5 | 0.6 | 1 | J |
| 12 | 420 | 8.2 | 64 | J | 4.0 | -6 | 221 | -2.9 | -2.4 | 1.0 | 0 | J |
| 13 | 412 | 9.4 | 26 | J | 2.6 | 15 | 167 | -2.4 | 0.8 | 0.3 | 1 | J |
| 14 | 410 | 9.5 | 24 | J | 3.0 | 6 | 191 | -2.8 | -0.3 | 0.5 | 1 | J |
| 15 | 424 | 7.1 | 34 | J | 3.6 | -13 | 197 | -3.4 | -1.3 | -0.3 | 1 | J |
| 16 | 414 | 4.7 | 22 | C | 5.0 | -22 | 200 | -4.3 | -2.2 | -1.0 | 1 | J |
| 17 | 411 | 4.5 | 21 | C | 5.0 | -2 | 229 | -3.3 | -3.6 | 1.2 | 1 | J |
| 18 | 416 | 4.7 | 33 | J | 4.8 | 4 | 229 | -3.1 | -3.3 | 1.5 | 1 | J |
| 19 | 402 | 4.6 | 34 | A | 3.8 | 15 | 246 | -1.5 | -2.9 | 1.9 | 0 | C |
| 20 | 389 | 6.7 | 27 | J | 2.8 | 21 | 245 | -1.1 | -2.1 | 1.5 | 0 | J |
| 21 | 390 | 6.1 | 29 | J | 3.0 | 24 | 241 | -1.2 | -2.0 | 1.6 | 1 | J |
| 22 | 383 | 5.5 | 29 | J | 3.0 | -19 | 258 | -0.5 | -2.6 | -0.4 | 1 | J |
| 23 | 387 | 4.8 | 32 | J | 3.1 | -17 | 234 | -1.7 | -2.4 | -0.5 | 1 | J |
| 24 | 381 | 4.4 | 55 | L | 3.0 | 18 | 234 | -1.6 | -2.0 | 1.3 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 376 | 5.6 | 28 | J | 2.9 | 20 | 274 | 0.2 | -2.2 | 1.4 | 1 | J |
| 2 | 375 | 6.0 | 26 | J | 2.9 | 16 | 244 | -1.1 | -2.1 | 1.3 | 1 | J |
| 3 | 373 | 6.6 | 23 | J | 2.9 | 12 | 229 | -1.9 | -1.9 | 1.2 | 1 | J |
| 4 | 384 | 7.5 | 32 | J | 3.5 | 2 | 238 | -1.8 | -2.7 | 1.0 | 1 | J |
| 5 | 377 | 7.1 | 35 | C | 5.1 | 0 | 275 | 0.4 | -4.7 | 1.9 | 2 | C |
| 6 | 383 | 9.3 | 51 | C | 5.8 | -19 | 260 | -0.8 | -4.7 | 0.5 | 3 | C |
| 7 | 385 | 12.0 | 61 | J | 5.2 | -3 | 279 | 0.7 | -4.2 | 2.0 | 2 | J |
| 8 | 386 | 11.4 | 59 | J | 5.3 | -19 | 270 | -0.0 | -5.0 | 1.0 | 1 | J |
| 9 | 380 | 11.5 | 45 | J | 6.0 | -4 | 297 | 2.5 | -4.3 | 2.3 | 2 | J |
| 10 | 372 | 10.0 | 27 | J | 7.2 | 10 | 314 | 4.8 | -3.5 | 3.7 | 1 | J |
| 11 | 368 | 9.4 | 30 | J | 7.0 | 6 | 309 | 4.3 | -4.1 | 3.5 | 1 | J |
| 12 | 363 | 9.3 | 34 | J | 6.6 | 13 | 321 | 4.8 | -2.5 | 3.3 | 2 | J |
| 13 | 364 | 10.4 | 29 | J | 6.4 | 8 | 306 | 3.7 | -3.9 | 3.4 | 1 | J |
| 14 | 365 | 10.8 | 41 | J | 6.3 | 1 | 321 | 4.9 | -3.4 | 2.0 | 1 | J |
| 15 | 363 | 11.2 | 43 | J | 6.1 | 2 | 322 | 4.6 | -3.1 | 1.8 | 2 | J |
| 16 | 350 | 15.5 | 42 | L | 5.7 | 11 | 354 | 5.5 | -0.1 | 1.3 | 1 | C |
| 17 | 351 | 16.3 | 42 | A | | | | | | | | |
| 18 | 347 | 17.3 | 41 | A | | | | | | | | |
| 19 | 343 | 18.4 | 40 | A | | | | | | | | |
| 20 | 342 | 20.6 | 36 | A | 5.4 | -13 | 320 | 4.0 | -3.5 | -0.4 | 0 | C |
| 21 | 338 | 23.5 | 23 | C | 4.5 | -43 | 253 | -0.9 | -3.4 | -2.2 | 1 | C |
| 22 | 336 | 23.8 | 24 | C | 4.3 | -42 | 250 | -1.0 | -3.3 | -2.2 | 1 | C |
| 23 | 337 | 23.2 | 28 | C | 5.4 | -60 | 257 | -0.6 | -3.0 | -3.8 | 2 | C |
| 24 | 362 | 26.3 | 36 | C | 9.3 | -64 | 213 | -3.4 | -3.6 | -7.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 388 | 42.7 | 63 | J | 12.8 | -64 | 206 | -4.0 | -3.7 | -8.5 | 8 | C |
| 2 | 387 | 17.9 | 68 | J | 15.1 | -36 | 142 | -9.0 | 4.9 | -9.7 | 5 | C |
| 3 | 402 | 14.3 | 74 | J | 15.1 | -24 | 135 | -9.5 | 7.5 | -8.3 | 3 | J |
| 4 | 393 | 15.6 | 99 | J | 15.8 | -20 | 139 | -10.6 | 7.1 | -7.8 | 5 | J |
| 5 | 377 | 13.1 | 71 | J | 15.8 | -38 | 178 | -11.8 | -3.0 | -8.7 | 5 | J |
| 6 | 373 | 13.5 | 71 | J | 13.0 | -35 | 136 | -7.0 | 3.2 | -9.0 | 6 | J |
| 7 | 389 | 22.7 | 69 | J | 10.5 | 30 | 68 | 3.2 | 9.4 | 0.7 | 4 | C |
| 8 | 420 | 11.6 | 96 | J | 13.1 | 24 | 82 | 1.6 | 12.5 | -1.3 | 3 | J |
| 9 | 417 | 13.1 | 154 | J | 12.1 | 23 | 83 | 1.3 | 11.5 | -1.8 | 3 | J |
| 10 | 404 | 12.1 | 135 | J | 11.5 | 6 | 103 | -2.4 | 9.3 | -4.7 | 4 | J |
| 11 | 400 | 13.5 | 194 | J | 8.2 | 3 | 111 | -2.4 | 5.5 | -3.2 | 5 | J |
| 12 | 412 | 14.5 | 243 | J | 7.3 | 53 | 88 | 0.1 | 5.7 | 2.1 | 4 | J |
| 13 | 408 | 12.5 | 122 | C | 9.0 | -48 | 64 | 0.3 | 0.1 | -0.9 | 10 | J |
| 14 | 456 | 14.4 | 157 | J | 8.8 | 54 | 37 | 2.8 | 4.2 | 3.2 | 7 | J |
| 15 | 455 | 8.9 | 173 | J | 10.8 | 47 | 31 | 5.5 | 6.1 | 4.6 | 5 | J |
| 16 | 434 | 7.8 | 201 | J | 12.7 | 18 | 79 | 2.3 | 12.3 | -1.2 | 2 | J |
| 17 | 427 | 8.2 | 38 | J | 12.9 | -16 | 114 | -4.5 | 8.3 | -6.6 | 6 | J |
| 18 | 428 | 5.7 | 29 | J | 13.3 | -7 | 106 | -3.6 | 11.4 | -5.4 | 3 | J |
| 19 | 423 | 5.6 | 51 | J | 12.9 | -19 | 105 | -3.1 | 10.2 | -7.1 | 1 | J |
| 20 | 426 | 6.7 | 47 | J | 12.1 | -12 | 107 | -3.4 | 10.4 | -5.0 | 2 | J |
| 21 | 427 | 5.7 | 47 | J | 12.2 | -8 | 105 | -3.1 | 11.1 | -4.0 | 0 | J |
| 22 | 430 | 6.1 | 24 | J | 12.2 | -2 | 105 | -3.1 | 11.3 | -2.5 | 2 | J |
| 23 | 430 | 5.9 | 32 | J | 12.0 | -26 | 92 | -0.4 | 9.6 | -7.0 | 1 | J |
| 24 | 406 | 5.3 | 84 | C | 10.9 | -34 | 89 | 0.2 | 7.8 | -7.6 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 407 | 9.0 | 84 | J | 8.9 | 40 | 78 | 1.3 | 7.1 | 4.0 | 3 | J |
| 2 | 401 | 10.2 | 78 | J | 8.8 | 35 | 83 | 0.8 | 7.7 | 3.1 | 3 | J |
| 3 | 416 | 8.2 | 80 | J | 9.8 | 64 | 77 | 0.9 | 5.9 | 6.8 | 4 | J |
| 4 | 426 | 8.3 | 139 | J | 9.6 | 54 | 114 | -2.1 | 6.8 | 5.3 | 4 | J |
| 5 | 436 | 8.6 | 151 | J | 9.4 | -19 | 99 | -1.2 | 5.9 | -5.1 | 5 | J |
| 6 | 414 | 8.4 | 143 | J | 9.0 | 8 | 100 | -1.3 | 7.0 | -2.1 | 5 | J |
| 7 | 442 | 7.9 | 156 | J | 7.9 | -63 | 115 | -1.4 | -0.3 | -7.0 | 3 | J |
| 8 | 452 | 5.5 | 85 | C | 8.1 | -32 | 109 | -1.5 | 2.4 | -4.7 | 6 | J |
| 9 | 471 | 5.3 | 82 | J | 5.9 | -14 | 106 | -1.2 | 3.0 | -3.1 | 4 | J |
| 10 | 476 | 5.1 | 62 | J | 5.0 | -31 | 102 | -0.8 | 1.9 | -3.9 | 2 | J |
| 11 | 445 | 4.7 | 120 | J | 4.3 | -37 | 162 | -2.1 | -0.3 | -1.8 | 3 | J |
| 12 | 472 | 5.5 | 86 | J | 4.2 | -12 | 140 | -2.2 | 1.2 | -1.5 | 3 | J |
| 13 | 468 | 5.6 | 77 | J | 4.7 | -23 | 194 | -3.7 | -1.6 | -0.9 | 2 | J |
| 14 | 460 | 5.8 | 57 | J | 4.8 | -19 | 171 | -3.8 | -0.1 | -1.5 | 3 | J |
| 15 | 468 | 5.1 | 61 | C | 5.5 | 33 | 94 | -0.3 | 4.8 | 0.5 | 3 | J |
| 16 | 476 | 5.2 | 64 | C | 4.8 | 66 | 70 | 0.7 | 3.4 | 3.2 | 1 | J |
| 17 | 448 | 4.9 | 61 | C | 4.4 | 0 | 151 | -3.2 | 1.7 | -0.6 | 2 | J |
| 18 | 453 | 5.1 | 69 | C | 3.8 | -13 | 181 | -3.0 | -0.3 | -0.6 | 2 | J |
| 19 | 476 | 6.0 | 96 | J | 3.5 | -33 | 209 | -1.9 | -1.4 | -1.1 | 2 | J |
| 20 | 475 | 6.2 | 81 | J | 4.4 | -48 | 223 | -2.0 | -2.4 | -2.5 | 2 | J |
| 21 | 473 | 6.3 | 93 | J | 4.4 | -31 | 122 | -1.3 | 1.7 | -1.8 | 3 | J |
| 22 | 482 | 5.7 | 85 | J | 4.4 | 13 | 79 | 0.7 | 3.6 | 0.2 | 2 | J |
| 23 | 473 | 5.5 | 80 | J | 3.6 | -41 | 125 | -0.8 | 1.0 | -1.4 | 3 | J |
| 24 | 466 | 5.3 | 73 | J | 4.0 | -39 | 140 | -1.4 | 0.9 | -1.6 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 457 | 4.8 | 73 | C | 4.4 | -28 | 155 | -1.4 | 0.5 | -0.9 | 4 | C |
| 2 | 452 | 4.9 | 80 | J | 4.1 | -12 | 192 | -2.9 | -0.7 | -0.5 | 3 | J |
| 3 | 458 | 5.2 | 78 | J | 4.6 | -31 | 198 | -2.9 | -1.4 | -1.5 | 3 | J |
| 4 | 455 | 5.4 | 69 | J | 4.7 | 44 | 197 | -2.8 | 0.1 | 2.9 | 2 | J |
| 5 | 451 | 5.3 | 70 | J | 4.9 | 3 | 219 | -3.3 | -2.4 | 1.2 | 3 | J |
| 6 | 439 | 5.4 | 108 | J | 4.6 | -9 | 195 | -3.9 | -1.2 | -0.1 | 2 | J |
| 7 | 440 | 4.7 | 65 | C | 4.5 | 4 | 137 | -2.8 | 2.5 | -1.0 | 2 | J |
| 8 | 437 | 4.8 | 64 | C | 5.1 | 33 | 121 | -1.8 | 3.8 | 0.5 | 3 | J |
| 9 | 435 | 4.9 | 56 | C | 4.9 | 26 | 158 | -2.6 | 1.6 | 0.6 | 4 | J |
| 10 | 427 | 4.8 | 61 | C | 4.6 | 32 | 125 | -1.7 | 3.0 | 0.2 | 3 | J |
| 11 | 429 | 4.8 | 65 | C | 4.7 | 7 | 174 | -4.1 | 0.6 | 0.2 | 2 | J |
| 12 | 415 | 4.8 | 62 | C | 5.0 | -1 | 163 | -4.1 | 1.0 | -0.7 | 2 | J |
| 13 | 412 | 4.6 | 36 | J | 5.1 | -7 | 146 | -3.9 | 2.0 | -1.9 | 2 | J |
| 14 | 416 | 4.5 | 36 | J | 4.8 | -13 | 164 | -4.1 | 0.6 | -1.4 | 2 | J |
| 15 | 409 | 4.5 | 41 | J | 5.1 | 8 | 184 | -4.3 | 0.0 | 0.7 | 2 | J |
| 16 | 414 | 4.3 | 35 | J | 5.1 | -18 | 179 | -4.4 | -0.5 | -1.3 | 2 | J |
| 17 | 419 | 4.0 | 36 | J | 4.8 | -46 | 185 | -3.3 | -1.5 | -3.1 | 1 | J |
| 18 | 399 | 4.7 | 63 | C | 4.7 | -34 | 153 | -2.8 | 0.7 | -2.5 | 3 | J |
| 19 | 429 | 4.8 | 61 | C | 5.3 | -10 | 113 | -1.3 | 2.9 | -1.4 | 4 | C |
| 20 | 406 | 5.0 | 57 | J | 5.2 | 10 | 142 | -3.6 | 3.0 | 0.2 | 2 | J |
| 21 | 404 | 4.6 | 49 | J | 5.2 | 49 | 180 | -3.1 | 0.7 | 3.5 | 2 | J |
| 22 | 394 | 5.0 | 68 | J | 5.4 | 24 | 166 | -4.4 | 1.4 | 1.8 | 2 | J |
| 23 | 406 | 5.0 | 55 | C | 5.2 | 0 | 121 | -2.3 | 3.8 | -0.6 | 2 | C |
| 24 | 399 | 5.1 | 52 | C | 4.9 | 34 | 148 | -2.1 | 1.6 | 1.4 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 410 | 5.4 | 46 | J | 5.1 | 12 | 92 | -0.2 | 4.6 | 0.1 | 2 | J |
| 2 | 406 | 5.3 | 40 | J | 5.0 | 17 | 121 | -1.8 | 3.2 | 0.4 | 3 | J |
| 3 | 375 | 4.8 | 33 | J | 5.0 | 13 | 157 | -4.0 | 1.9 | 0.5 | 2 | J |
| 4 | 383 | 5.5 | 45 | J | 5.0 | -2 | 125 | -2.4 | 3.2 | -1.2 | 3 | J |
| 5 | 389 | 5.6 | 44 | J | 5.2 | -13 | 116 | -2.0 | 3.4 | -2.5 | 2 | J |
| 6 | 388 | 6.0 | 59 | J | 5.4 | 45 | 172 | -3.7 | 2.0 | 3.2 | 1 | J |
| 7 | 386 | 6.4 | 68 | J | 5.8 | 35 | 164 | -4.4 | 2.6 | 2.3 | 1 | J |
| 8 | 398 | 5.8 | 49 | J | 5.1 | 24 | 113 | -1.2 | 3.2 | -0.2 | 4 | J |
| 9 | 392 | 5.8 | 48 | C | 5.3 | 76 | 158 | -1.2 | 3.0 | 4.1 | 1 | J |
| 10 | 390 | 5.6 | 49 | J | 4.9 | -6 | 119 | -1.9 | 2.7 | -2.2 | 3 | J |
| 11 | 401 | 6.0 | 71 | J | 4.8 | -11 | 95 | -0.3 | 2.5 | -2.4 | 3 | J |
| 12 | 404 | 6.3 | 50 | J | 5.3 | 36 | 101 | -0.7 | 4.4 | 0.3 | 3 | J |
| 13 | 397 | 6.5 | 55 | J | 5.1 | -4 | 103 | -0.8 | 3.0 | -2.1 | 3 | J |
| 14 | 392 | 6.1 | 48 | J | 5.0 | -28 | 116 | -1.7 | 2.1 | -3.6 | 2 | J |
| 15 | 387 | 6.4 | 62 | J | 4.8 | 11 | 109 | -1.2 | 3.3 | -0.9 | 3 | J |
| 16 | 396 | 5.9 | 56 | J | 5.0 | -34 | 90 | 0.0 | 2.4 | -3.7 | 2 | J |
| 17 | 401 | 6.0 | 52 | J | 4.9 | -14 | 88 | 0.1 | 3.5 | -2.4 | 2 | J |
| 18 | 392 | 6.1 | 53 | J | 4.9 | -5 | 106 | -0.9 | 2.9 | -1.2 | 4 | J |
| 19 | 394 | 6.2 | 51 | J | 4.7 | -51 | 116 | -1.1 | 1.3 | -3.5 | 3 | J |
| 20 | 390 | 6.2 | 43 | J | 5.1 | 2 | 94 | -0.3 | 4.2 | -0.8 | 3 | J |
| 21 | 400 | 6.0 | 48 | J | 4.7 | -31 | 85 | 0.3 | 2.7 | -2.4 | 3 | J |
| 22 | 408 | 5.5 | 34 | J | 5.2 | -30 | 65 | 1.8 | 3.3 | -3.0 | 2 | J |
| 23 | 404 | 5.7 | 46 | J | 4.8 | -4 | 75 | 1.1 | 4.0 | -1.0 | 2 | J |
| 24 | 391 | 5.6 | 42 | J | 4.8 | -46 | 100 | -0.4 | 1.9 | -2.9 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 5.6 | 44 | J | 4.8 | 0 | 102 | -0.7 | 3.2 | -0.6 | 3 | J |
| 2 | 384 | 5.6 | 40 | J | 5.2 | -11 | 93 | -0.2 | 4.1 | -1.8 | 3 | J |
| 3 | 388 | 5.3 | 33 | J | 5.3 | -28 | 89 | 0.1 | 3.6 | -3.3 | 2 | J |
| 4 | 409 | 5.1 | 34 | J | 5.3 | -18 | 69 | 1.7 | 3.7 | -2.8 | 2 | J |
| 5 | 392 | 5.3 | 30 | C | 5.6 | -15 | 60 | 2.6 | 3.7 | -2.9 | 2 | J |
| 6 | 393 | 5.5 | 33 | C | 6.0 | -22 | 61 | 2.6 | 3.4 | -4.0 | 1 | C |
| 7 | 389 | 5.5 | 37 | J | 5.4 | -19 | 86 | 0.3 | 3.5 | -3.6 | 2 | J |
| 8 | 380 | 5.6 | 38 | J | 5.0 | -16 | 102 | -0.9 | 3.0 | -3.1 | 2 | J |
| 9 | 384 | 5.7 | 39 | J | 5.2 | 0 | 103 | -1.0 | 3.8 | -2.3 | 2 | J |
| 10 | 377 | 5.9 | 30 | J | 5.4 | -39 | 101 | -0.6 | 1.3 | -4.0 | 3 | J |
| 11 | 359 | 6.2 | 50 | C | 5.1 | 34 | 128 | -2.6 | 4.3 | 0.6 | 0 | J |
| 12 | 362 | 5.8 | 43 | J | 5.4 | 3 | 148 | -3.1 | 1.8 | -0.9 | 4 | J |
| 13 | 364 | 6.1 | 45 | J | 5.5 | 55 | 161 | -2.7 | 2.9 | 3.1 | 2 | J |
| 14 | 368 | 6.2 | 41 | J | 5.9 | 23 | 123 | -2.6 | 4.4 | -0.1 | 3 | J |
| 15 | 375 | 6.5 | 42 | J | 5.4 | -22 | 107 | -1.1 | 2.6 | -3.0 | 4 | J |
| 16 | 373 | 6.5 | 34 | J | 5.3 | 36 | 108 | -0.8 | 3.2 | 0.8 | 4 | J |
| 17 | 366 | 6.3 | 37 | C | 5.6 | -27 | 72 | 1.5 | 3.4 | -3.9 | 1 | J |
| 18 | 377 | 6.8 | 26 | J | 5.7 | -29 | 76 | 1.2 | 3.7 | -3.9 | 1 | J |
| 19 | 381 | 6.7 | 31 | J | 5.8 | 1 | 73 | 1.7 | 5.3 | -1.3 | 1 | J |
| 20 | 371 | 6.6 | 30 | J | 5.3 | 14 | 96 | -0.5 | 4.6 | 0.1 | 2 | J |
| 21 | 367 | 6.5 | 38 | J | 5.1 | 5 | 95 | -0.3 | 2.9 | -0.3 | 4 | J |
| 22 | 342 | 6.1 | 34 | J | 4.6 | 6 | 149 | -3.5 | 2.1 | 0.1 | 2 | J |
| 23 | 350 | 6.5 | 51 | J | 4.4 | -24 | 138 | -2.6 | 2.1 | -1.9 | 2 | J |
| 24 | 347 | 6.5 | 46 | J | 4.8 | 14 | 188 | -4.1 | -0.4 | 1.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 348 | 8.1 | 34 | C | 5.0 | 13 | 178 | -4.9 | 0.4 | 1.1 | 1 | J |
| 2 | 360 | 7.9 | 42 | C | 5.6 | 27 | 107 | -1.4 | 4.8 | 1.4 | 1 | C |
| 3 | 357 | 8.3 | 40 | C | 5.7 | -1 | 111 | -2.0 | 4.9 | -1.4 | 1 | C |
| 4 | 370 | 8.1 | 33 | C | 6.1 | -28 | 91 | -0.1 | 4.1 | -4.2 | 1 | C |
| 5 | 362 | 8.8 | 38 | C | 6.2 | 9 | 112 | -2.1 | 5.1 | -1.0 | 2 | C |
| 6 | 365 | 8.8 | 33 | C | 6.4 | 13 | 95 | -0.5 | 5.9 | -1.2 | 2 | C |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 339 | 9.4 | 25 | C | 6.6 | 2 | 109 | -2.1 | 5.5 | -2.7 | 1 | C |
| 15 | 329 | 8.6 | 31 | C | 6.5 | -3 | 118 | -2.5 | 4.3 | -2.4 | 3 | C |
| 16 | 322 | 8.0 | 24 | C | 6.4 | -4 | 127 | -3.8 | 4.4 | -2.4 | 1 | C |
| 17 | 316 | 6.3 | 27 | J | 5.8 | 1 | 163 | -5.1 | 1.5 | -0.4 | 2 | J |
| 18 | 314 | 6.5 | 25 | J | 5.7 | 10 | 161 | -4.7 | 1.8 | 0.4 | 3 | J |
| 19 | 309 | 7.4 | 30 | J | 6.0 | 15 | 174 | -5.6 | 0.9 | 1.3 | 1 | J |
| 20 | 318 | 9.4 | 28 | J | 6.4 | -2 | 135 | -4.5 | 4.4 | -1.2 | 1 | J |
| 21 | 324 | 9.2 | 26 | J | 6.2 | -14 | 128 | -3.5 | 4.2 | -2.2 | 2 | J |
| 22 | 328 | 9.3 | 20 | J | 6.3 | 16 | 128 | -2.9 | 3.9 | 0.7 | 4 | J |
| 23 | 321 | 9.0 | 33 | J | 6.5 | 31 | 181 | -5.1 | 0.4 | 3.1 | 2 | J |
| 24 | 320 | 9.8 | 38 | J | 6.5 | -8 | 165 | -5.8 | 1.4 | -1.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 324 | 10.5 | 28 | J | 7.1 | 5 | 144 | -5.1 | 3.7 | -0.1 | 3 | J |
| 2 | 323 | 10.5 | 32 | J | 7.1 | -12 | 145 | -5.4 | 3.4 | -2.2 | 2 | J |
| 3 | 327 | 11.2 | 32 | J | 6.7 | -20 | 142 | -4.8 | 3.1 | -3.1 | 2 | J |
| 4 | 316 | 11.5 | 28 | C | 6.8 | -9 | 138 | -5.0 | 3.9 | -2.4 | 0 | C |
| 5 | 313 | 11.3 | 30 | C | 6.6 | 4 | 141 | -4.7 | 3.6 | -0.9 | 3 | C |
| 6 | 310 | 11.1 | 25 | C | 6.5 | -4 | 139 | -4.9 | 3.7 | -2.1 | 1 | C |
| 7 | 309 | 10.9 | 24 | C | 6.4 | 9 | 140 | -4.8 | 4.1 | -1.0 | 0 | C |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 295 | 10.2 | 37 | A |  |  |  |  |  |  |  |  |
| 12 | 292 | 10.7 | 20 | C | 6.4 | 10 | 165 | -6.0 | 2.0 | 0.1 | 0 | C |
| 13 | 290 | 10.9 | 20 | C | 6.3 | 10 | 168 | -6.0 | 1.7 | 0.3 | 1 | C |
| 14 | 289 | 10.4 | 17 | C | 6.2 | 18 | 157 | -5.3 | 2.9 | 0.6 | 1 | C |
| 15 | 289 | 10.8 | 18 | C | 6.1 | 14 | 154 | -5.3 | 3.0 | 0.2 | 0 | C |
| 16 | 289 | 12.5 | 16 | C | 5.9 | 2 | 156 | -5.3 | 2.3 | -0.8 | 1 | C |
| 17 | 298 | 20.6 | 11 | C | 4.4 | 37 | 133 | -2.3 | 3.2 | 1.5 | 1 | C |
| 18 | 301 | 19.7 | 9 | C | 5.3 | -3 | 162 | -4.7 | 1.4 | -0.7 | 2 | C |
| 19 | 306 | 19.9 | 8 | C | 5.8 | -29 | 170 | -5.0 | 0.2 | -2.9 | 1 | C |
| 20 | 306 | 21.6 | 6 | C | 5.7 | -32 | 171 | -4.8 | 0.2 | -3.1 | 0 | C |
| 21 | 301 | 22.0 | 7 | C | 4.5 | -41 | 184 | -3.3 | -0.8 | -2.8 | 1 | C |
| 22 | 315 | 25.7 | 9 | C | 4.5 | -52 | 205 | -2.4 | -1.7 | -3.2 | 1 | C |
| 23 | 331 | 27.6 | 15 | C | 4.1 | -7 | 166 | -3.8 | 0.9 | -0.6 | 1 | C |
| 24 | 332 | 27.5 | 13 | C | 5.3 | 21 | 150 | -4.2 | 2.7 | 1.5 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 328 | 29.8 | 12 | C | 5.2 | 25 | 153 | -4.1 | 2.5 | 1.8 | 1 | C |
| 2 | 327 | 33.2 | 13 | C | 4.8 | 17 | 167 | -4.3 | 1.3 | 1.1 | 1 | C |
| 3 | 330 | 38.9 | 11 | C | 3.6 | -2 | 190 | -3.4 | -0.6 | 0.0 | 1 | C |
| 4 | 327 | 38.3 | 11 | C | 3.7 | -10 | 187 | -3.5 | -0.6 | -0.5 | 1 | C |
| 5 | 324 | 35.3 | 11 | C | 4.7 | -5 | 168 | -4.5 | 0.7 | -0.7 | 1 | C |
| 6 | 324 | 36.6 | 10 | C | 3.7 | 19 | 169 | -3.3 | 1.1 | 0.8 | 1 | C |
| 7 | 322 | 42.3 | 10 | C | 2.5 | 37 | 155 | -1.6 | 1.3 | 0.8 | 1 | C |
| 8 | 317 | 44.9 | 11 | C | 3.1 | 28 | 155 | -2.1 | 1.4 | 0.6 | 1 | C |
| 9 | 316 | 47.6 | 11 | C | 2.4 | 28 | 145 | -1.6 | 1.5 | 0.3 | 1 | C |
| 10 | 313 | 47.8 | 11 | C | 3.5 | 6 | 153 | -2.1 | 1.1 | -0.4 | 2 | C |
| 11 | 337 | 30.7 | 24 | C | 7.3 | -25 | 163 | -5.9 | -0.0 | -3.4 | 2 | C |
| 12 | 343 | 18.0 | 23 | C | 10.0 | -20 | 147 | -7.9 | 2.6 | -5.6 | 1 | C |
| 13 | 354 | 19.3 | 23 | C | 9.2 | -18 | 147 | -6.9 | 2.5 | -4.5 | 3 | C |
| 14 | 357 | 18.4 | 20 | C | 9.1 | 15 | 133 | -5.9 | 6.7 | -1.0 | 2 | C |
| 15 | 355 | 20.3 | 20 | C | 8.7 | -3 | 143 | -6.9 | 4.5 | -2.7 | 1 | C |
| 16 | 350 | 21.1 | 22 | C | 8.0 | -2 | 148 | -6.6 | 3.6 | -1.8 | 2 | C |
| 17 | 339 | 19.6 | 31 | C | 6.9 | 20 | 126 | -3.7 | 5.6 | 0.5 | 1 | C |
| 18 | 340 | 18.5 | 32 | C | 7.0 | 7 | 115 | -2.9 | 6.2 | -1.0 | 1 | C |
| 19 | 337 | 14.9 | 31 | C | 7.8 | 4 | 125 | -4.4 | 6.2 | -1.1 | 1 | C |
| 20 | 345 | 10.5 | 37 | C | 8.6 | 13 | 126 | -4.9 | 6.9 | 0.5 | 1 | C |
| 21 | 346 | 12.4 | 30 | C | 8.6 | 20 | 129 | -4.8 | 6.4 | 1.8 | 2 | C |
| 22 | 343 | 16.2 | 16 | C | 8.6 | 30 | 138 | -5.4 | 5.5 | 3.4 | 1 | C |
| 23 | 344 | 14.9 | 17 | C | 9.0 | 36 | 134 | -5.1 | 5.9 | 4.4 | 1 | C |
| 24 | 351 | 11.9 | 19 | C | 7.3 | 28 | 137 | -4.7 | 4.8 | 2.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 349 | 13.5 | 21 | C | 7.2 | 21 | 142 | -5.3 | 4.5 | 1.8 | 1 | C |
| 2 | 349 | 16.5 | 28 | C | 6.1 | 38 | 163 | -2.2 | 1.0 | 1.6 | 5 | C |
| 3 | 351 | 18.1 | 11 | C | 6.6 | -6 | 316 | 4.7 | -4.6 | 0.5 | 1 | C |
| 4 | 349 | 15.0 | 21 | C | 7.4 | -12 | 325 | 5.9 | -4.4 | -0.2 | 1 | C |
| 5 | 342 | 22.8 | 13 | C | 5.9 | -3 | 322 | 4.2 | -3.2 | 0.9 | 3 | C |
| 6 | 334 | 32.6 | 12 | C | 3.9 | -2 | 155 | -3.5 | 1.4 | -0.8 | 1 | C |
| 7 | 330 | 35.0 | 13 | C | 3.7 | -7 | 138 | -2.5 | 1.8 | -1.4 | 2 | C |
| 8 | 326 | 39.4 | 13 | C | 3.4 | 3 | 119 | -1.6 | 2.6 | -1.2 | 1 | C |
| 9 | 326 | 40.0 | 14 | C | 4.1 | -48 | 137 | -1.6 | 0.0 | -3.0 | 2 | C |
| 10 | 339 | 25.3 | 13 | C | 9.3 | -12 | 309 | 5.5 | -6.8 | 2.0 | 3 | C |
| 11 | 340 | 27.1 | 13 | C | 10.7 | -17 | 303 | 5.6 | -8.9 | 1.9 | 1 | C |
| 12 | 343 | 36.7 | 14 | C | 11.6 | -14 | 301 | 5.7 | -9.7 | 2.6 | 1 | C |
| 13 | 333 | 31.8 | 23 | C | 11.3 | -8 | 137 | -7.0 | 5.1 | -4.4 | 6 | C |
| 14 | 336 | 39.9 | 19 | C | 11.6 | -6 | 134 | -7.9 | 6.8 | -4.9 | 1 | C |
| 15 | 346 | 37.1 | 37 | C | 11.4 | -10 | 140 | -7.2 | 4.8 | -4.1 | 6 | C |
| 16 | 335 | 40.3 | 20 | C | 11.1 | 63 | 123 | -2.4 | 6.7 | 6.6 | 5 | C |
| 17 | 345 | 34.5 | 35 | C | 6.9 | -22 | 160 | -3.1 | 0.6 | -1.7 | 6 | C |
| 18 | 362 | 16.4 | 37 | C | 11.8 | -51 | 150 | -5.7 | 0.8 | -8.9 | 6 | C |
| 19 | 393 | 11.2 | 108 | C | 12.5 | -3 | 129 | -6.5 | 7.7 | -2.5 | 7 | C |
| 20 | 422 | 8.8 | 171 | C | 9.6 | 20 | 119 | -3.8 | 7.2 | 1.4 | 4 | C |
| 21 | 423 | 7.2 | 177 | C | 8.2 | -18 | 148 | -6.1 | 3.4 | -2.9 | 3 | C |
| 22 | 440 | 6.8 | 215 | C | 11.1 | -44 | 143 | -5.9 | 3.3 | -7.9 | 3 | C |
| 23 | 435 | 7.3 | 228 | C | 11.7 | -31 | 138 | -6.3 | 5.0 | -5.8 | 6 | C |
| 24 | 422 | 6.6 | 178 | C | 14.6 | -33 | 129 | -7.5 | 7.9 | -8.8 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 6.2 | 179 | C | 16.7 | -33 | 146 | -11.4 | 6.1 | -10.0 | 3 | C |
| 2 | 399 | 6.8 | 255 | A | | | | | | | | |
| 3 | 394 | 7.5 | 224 | A | | | | | | | | |
| 4 | 394 | 8.3 | 216 | A | | | | | | | | |
| 5 | 376 | 6.4 | 154 | A | | | | | | | | |
| 6 | 385 | 8.5 | 54 | C | 18.0 | -38 | 132 | -9.5 | 5.3 | -14.3 | 0 | C |
| 7 | 386 | 10.8 | 76 | C | 16.6 | -29 | 129 | -8.4 | 6.0 | -11.4 | 6 | C |
| 8 | 379 | 11.8 | 82 | C | 14.1 | -25 | 136 | -8.9 | 4.7 | -9.2 | 3 | C |
| 9 | 390 | 10.8 | 56 | C | 13.9 | -14 | 114 | -5.4 | 8.6 | -8.7 | 3 | C |
| 10 | 386 | 12.1 | 71 | C | 11.8 | 0 | 113 | -4.5 | 9.2 | -5.5 | 2 | C |
| 11 | 380 | 12.7 | 87 | C | 11.1 | 5 | 109 | -3.4 | 9.1 | -4.5 | 2 | C |
| 12 | 382 | 9.5 | 76 | C | 11.3 | 11 | 107 | -3.1 | 9.5 | -3.4 | 4 | C |
| 13 | 393 | 9.0 | 105 | C | 8.8 | 28 | 74 | 1.9 | 7.9 | -0.1 | 3 | C |
| 14 | 406 | 9.0 | 102 | C | 8.3 | 32 | 51 | 4.4 | 6.8 | 1.3 | 1 | C |
| 15 | 411 | 8.5 | 93 | C | 8.3 | 9 | 53 | 4.3 | 5.6 | -1.4 | 4 | C |
| 16 | 435 | 7.1 | 107 | C | 7.9 | -10 | 15 | 6.9 | 1.2 | -1.8 | 3 | C |
| 17 | 428 | 7.4 | 94 | C | 7.8 | 30 | 355 | 6.5 | 0.7 | 3.8 | 2 | C |
| 18 | 426 | 7.7 | 96 | C | 6.2 | 34 | 13 | 4.9 | 2.0 | 3.0 | 1 | C |
| 19 | 424 | 8.4 | 82 | C | 5.9 | 36 | 26 | 4.0 | 2.7 | 2.8 | 1 | C |
| 20 | 415 | 8.4 | 69 | C | 6.1 | 23 | 50 | 3.4 | 4.4 | 1.4 | 2 | C |
| 21 | 410 | 8.6 | 67 | C | 5.6 | -3 | 60 | 2.3 | 4.0 | -0.9 | 3 | C |
| 22 | 411 | 7.3 | 39 | C | 6.5 | 8 | 46 | 4.3 | 4.5 | 0.2 | 2 | C |
| 23 | 419 | 8.6 | 47 | C | 6.8 | -3 | 65 | 2.7 | 5.6 | -1.1 | 2 | C |
| 24 | 426 | 9.5 | 44 | C | 7.7 | -15 | 80 | 1.2 | 6.4 | -2.7 | 3 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 429 | 7.3 | 38 | C | 8.2 | -16 | 83 | 0.9 | 6.7 | -3.2 | 3 | C |
| 440 | 8.8 | 51 | C | 7.8 | 20 | 57 | 3.9 | 6.4 | 1.4 | 1 | C |
| 449 | 10.8 | 95 | J | 7.5 | 4 | 69 | 2.1 | 5.3 | -0.9 | 5 | J |
| 444 | 6.3 | 141 | J | 7.1 | -59 | 167 | -2.8 | -0.8 | -4.7 | 5 | J |
| 438 | 6.6 | 154 | J | 6.9 | -60 | 161 | -3.2 | -1.0 | -5.8 | 2 | J |
| 424 | 7.3 | 153 | J | 6.8 | -58 | 170 | -3.4 | -1.6 | -5.3 | 2 | J |
| 428 | 7.7 | 119 | J | 6.2 | -52 | 134 | -1.5 | 0.2 | -3.2 | 5 | J |
| 439 | 6.9 | 172 | J | 5.9 | 48 | 76 | 0.5 | 2.8 | 1.0 | 5 | J |
| 449 | 7.9 | 190 | J | 4.8 | -53 | 70 | 0.8 | 0.3 | -3.9 | 3 | J |
| 451 | 7.1 | 135 | J | 5.5 | 6 | 76 | 0.7 | 2.6 | -1.2 | 5 | J |
| 439 | 6.3 | 132 | J | 5.3 | 57 | 308 | 1.3 | 0.3 | 3.8 | 4 | J |
| 433 | 6.3 | 140 | J | 4.9 | 82 | 220 | -0.4 | 1.7 | 3.6 | 3 | J |
| 439 | 6.8 | 126 | J | 4.8 | 14 | 76 | 0.8 | 3.4 | -0.9 | 3 | J |
| 434 | 6.7 | 103 | J | 5.1 | 10 | 91 | -0.1 | 3.8 | -1.2 | 3 | J |
| 433 | 6.4 | 93 | J | 5.6 | -1 | 107 | -1.3 | 4.0 | -1.9 | 3 | J |
| 419 | 5.5 | 87 | J | 5.4 | 12 | 210 | -4.2 | -1.8 | 1.8 | 2 | J |
| 451 | 6.7 | 91 | J | 4.7 | -11 | 230 | -2.7 | -3.2 | 0.3 | 2 | J |
| 437 | 3.8 | 64 | C | 4.3 | 15 | 220 | -2.8 | -2.0 | 1.6 | 2 | C |
| 457 | 3.3 | 66 | J | 4.9 | 46 | 235 | -1.8 | -1.8 | 3.8 | 2 | J |
| 440 | 3.1 | 74 | J | 5.0 | 9 | 191 | -4.3 | -0.7 | 0.8 | 2 | J |
| 436 | 2.9 | 55 | J | 4.8 | -34 | 170 | -3.3 | 0.2 | -2.3 | 3 | J |
| 417 | 2.9 | 54 | J | 4.5 | -13 | 180 | -4.2 | -0.1 | -1.0 | 1 | J |
| 421 | 3.4 | 65 | J | 4.3 | -22 | 170 | -3.7 | 0.4 | -1.6 | 1 | J |
| 429 | 3.3 | 61 | C | 4.2 | -24 | 163 | -3.4 | 0.8 | -1.7 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 439 | 3.4 | 71 | J | 4.1 | -12 | 138 | -2.5 | 2.1 | -1.1 | 2 | J |
| 2 | 424 | 3.2 | 59 | J | 3.8 | -14 | 148 | -2.6 | 1.4 | -1.0 | 2 | J |
| 3 | 425 | 3.5 | 51 | J | 4.2 | -12 | 133 | -2.5 | 2.4 | -1.4 | 2 | J |
| 4 | 436 | 4.7 | 58 | J | 3.8 | -24 | 161 | -3.0 | 0.6 | -1.7 | 2 | J |
| 5 | 424 | 7.9 | 27 | J | 3.6 | -32 | 174 | -2.9 | -0.3 | -1.8 | 1 | J |
| 6 | 425 | 8.8 | 26 | J | 3.4 | -43 | 179 | -2.4 | -0.8 | -2.1 | 1 | J |
| 7 | 422 | 9.3 | 29 | J | 3.2 | -47 | 170 | -2.1 | -0.7 | -2.2 | 1 | J |
| 8 | 405 | 8.9 | 20 | J | 3.2 | -45 | 171 | -2.2 | -0.8 | -2.2 | 0 | J |
| 9 | 403 | 7.7 | 19 | J | 3.6 | -42 | 169 | -2.6 | -0.7 | -2.3 | 1 | J |
| 10 | 403 | 6.0 | 16 | J | 4.0 | -40 | 157 | -2.8 | -0.3 | -2.8 | 1 | J |
| 11 | 388 | 6.1 | 15 | C | 4.1 | -53 | 149 | -2.1 | -0.6 | -3.5 | 0 | J |
| 12 | 413 | 9.0 | 28 | J | 5.9 | -48 | 153 | -3.5 | -0.7 | -4.6 | 2 | J |
| 13 | 410 | 10.2 | 21 | J | 6.6 | -43 | 152 | -4.1 | -0.2 | -4.9 | 1 | J |
| 14 | 421 | 9.3 | 31 | J | 6.8 | -40 | 140 | -3.9 | 1.0 | -5.3 | 1 | J |
| 15 | 430 | 8.0 | 34 | J | 7.8 | -49 | 136 | -3.6 | 0.8 | -6.7 | 2 | J |
| 16 | 423 | 7.2 | 50 | J | 8.5 | -53 | 138 | -3.3 | 0.6 | -6.6 | 4 | J |
| 17 | 432 | 11.8 | 37 | C | 9.8 | -23 | 100 | -1.6 | 7.1 | -6.4 | 1 | J |
| 18 | 427 | 8.6 | 22 | C | 9.8 | -2 | 93 | -0.5 | 8.3 | -2.7 | 5 | J |
| 19 | 432 | 7.3 | 21 | J | 9.8 | 2 | 87 | 0.5 | 9.6 | -1.9 | 1 | J |
| 20 | 427 | 6.9 | 36 | J | 9.4 | 10 | 77 | 2.1 | 9.2 | -0.1 | 1 | J |
| 21 | 417 | 6.9 | 32 | J | 9.5 | 12 | 77 | 2.1 | 9.2 | 0.5 | 1 | J |
| 22 | 413 | 7.2 | 13 | C | 9.7 | 23 | 74 | 2.5 | 9.0 | 2.6 | 1 | C |
| 23 | 404 | 9.5 | 21 | C | 8.8 | 58 | 314 | 1.9 | -1.4 | 4.6 | 7 | C |
| 24 | 412 | 12.1 | 22 | J | 9.4 | 20 | 276 | 0.9 | -8.3 | 4.4 | 1 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 410 | 9.1 | 22 | J | 9.9 | 8 | 274 | 0.7 | -9.1 | 2.8 | 2 | J |
| 410 | 7.8 | 20 | J | 10.4 | 0 | 269 | -0.2 | -10.0 | 1.9 | 2 | J |
| 406 | 7.3 | 21 | J | 10.4 | -17 | 271 | 0.2 | -10.4 | -0.7 | 1 | J |
| 402 | 8.4 | 26 | J | 10.0 | -28 | 267 | -0.5 | -9.8 | -2.0 | 1 | J |
| 402 | 8.0 | 23 | J | 10.5 | -44 | 256 | -1.8 | -9.2 | -4.3 | 2 | J |
| 411 | 9.6 | 19 | J | 11.4 | -53 | 252 | -2.1 | -9.5 | -5.8 | 1 | J |
| 406 | 7.2 | 18 | J | 11.3 | -56 | 257 | -1.4 | -9.4 | -5.7 | 2 | J |
| 401 | 5.1 | 15 | J | 11.3 | -64 | 256 | -1.2 | -8.9 | -6.6 | 2 | J |
| 391 | 5.3 | 16 | J | 11.3 | -78 | 183 | -2.3 | -5.6 | -9.5 | 1 | J |
| 398 | 8.0 | 17 | J | 11.4 | -73 | 151 | -2.9 | -4.1 | -10.1 | 1 | J |
| 394 | 7.0 | 16 | J | 11.2 | -74 | 147 | -2.6 | -4.0 | -10.0 | 1 | J |
| 399 | 9.7 | 39 | J | 11.1 | -75 | 151 | -2.5 | -4.2 | -10.0 | 1 | J |
| 399 | 7.9 | 32 | J | 11.2 | -74 | 167 | -3.0 | -4.6 | -9.7 | 2 | J |
| 398 | 4.9 | 16 | J | 11.4 | -70 | 153 | -3.4 | -3.2 | -10.3 | 2 | J |
| 394 | 4.2 | 19 | J | 11.1 | -65 | 127 | -2.8 | -0.8 | -10.7 | 1 | J |
| 378 | 5.8 | 27 | C | 12.1 | -71 | 160 | -3.6 | -2.9 | -11.0 | 1 | C |
| 370 | 2.9 | 27 | J | 12.8 | -55 | 119 | -3.4 | 2.7 | -11.5 | 3 | C |
| 384 | 3.0 | 24 | J | 12.8 | -41 | 112 | -3.6 | 6.3 | -10.5 | 1 | C |
| 387 | 3.5 | 27 | J | 12.5 | -35 | 96 | -1.1 | 8.2 | -9.2 | 1 | J |
| 366 | 4.8 | 24 | C | 12.6 | -26 | 93 | -0.6 | 10.1 | -7.5 | 1 | C |
| 362 | 5.6 | 19 | C | 12.3 | -19 | 92 | -0.3 | 10.8 | -5.7 | 1 | C |
| 371 | 6.6 | 19 | C | 12.0 | -17 | 86 | 0.7 | 10.9 | -5.0 | 1 | C |
| 370 | 4.8 | 19 | J | 11.7 | -8 | 97 | -1.4 | 11.1 | -3.0 | 2 | J |
| 360 | 4.4 | 14 | J | 11.7 | -8 | 102 | -2.4 | 10.9 | -3.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 414 | 5.3 | 23 | J | 11.7 | 1 | 101 | -2.2 | 11.3 | -1.5 | 1 | J |
| 2 | 349 | 4.4 | 12 | C | 11.5 | 7 | 103 | -2.6 | 11.2 | -0.7 | 1 | J |
| 3 | 350 | 5.9 | 13 | C | 11.2 | 10 | 105 | -2.9 | 10.8 | -0.5 | 1 | J |
| 4 | 361 | 5.1 | 13 | J | 10.9 | 19 | 105 | -2.6 | 10.5 | 0.7 | 1 | C |
| 5 | 367 | 8.0 | 16 | J | 10.3 | 11 | 102 | -2.1 | 9.8 | -1.4 | 2 | J |
| 6 | 368 | 8.9 | 17 | J | 10.4 | 13 | 107 | -2.9 | 9.7 | -1.5 | 2 | J |
| 7 | 369 | 9.7 | 16 | J | 10.4 | 12 | 112 | -3.8 | 9.4 | -2.1 | 0 | J |
| 8 | 359 | 10.0 | 16 | C | 10.5 | 29 | 110 | -3.1 | 10.0 | 0.5 | 1 | C |
| 9 | 368 | 9.6 | 14 | C | 10.7 | 26 | 106 | -2.6 | 10.3 | -0.5 | 1 | C |
| 10 | 360 | 10.5 | 14 | C | 10.9 | 27 | 104 | -2.4 | 10.6 | -0.6 | 1 | C |
| 11 | 365 | 8.2 | 13 | J | 11.1 | 27 | 102 | -2.0 | 10.5 | -0.6 | 3 | J |
| 12 | 367 | 10.7 | 14 | J | 10.8 | 31 | 96 | -0.9 | 10.6 | 0.2 | 2 | J |
| 13 | 377 | 12.1 | 30 | J | 10.0 | -16 | 83 | 1.0 | 5.8 | -5.7 | 6 | J |
| 14 | 381 | 10.6 | 26 | J | 10.2 | -29 | 84 | 0.9 | 5.6 | -8.3 | 1 | J |
| 15 | 378 | 11.8 | 22 | J | 10.7 | -5 | 92 | -0.4 | 9.2 | -5.1 | 2 | J |
| 16 | 365 | 13.3 | 52 | J | 8.8 | 36 | 98 | -0.9 | 7.9 | 2.1 | 4 | J |
| 17 | 382 | 12.8 | 90 | J | 8.0 | -2 | 63 | 1.8 | 3.3 | -1.3 | 7 | J |
| 18 | 379 | 15.1 | 91 | J | 6.8 | 43 | 63 | 2.2 | 5.3 | 3.1 | 3 | J |
| 19 | 375 | 15.2 | 63 | J | 6.6 | 16 | 82 | 0.8 | 6.1 | 0.4 | 3 | J |
| 20 | 379 | 8.0 | 84 | J | 8.3 | 7 | 81 | 1.2 | 7.9 | -0.5 | 2 | J |
| 21 | 369 | 7.9 | 90 | J | 8.0 | -6 | 99 | -1.2 | 7.2 | -1.9 | 3 | J |
| 22 | 365 | 7.6 | 92 | J | 8.0 | 1 | 86 | 0.5 | 7.7 | -0.9 | 2 | J |
| 23 | 363 | 7.5 | 85 | J | 7.7 | 7 | 91 | -0.1 | 7.3 | 0.0 | 3 | J |
| 24 | 358 | 7.2 | 75 | J | 7.7 | 25 | 106 | -1.8 | 6.5 | 2.2 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 366 | 6.2 | 51 | J | 8.1 | -6 | 79 | 1.4 | 7.1 | -1.8 | 3 | J |
| 353 | 5.7 | 41 | J | 8.1 | -18 | 93 | -0.4 | 6.9 | -3.7 | 2 | J |
| 351 | 7.2 | 56 | J | 7.9 | -18 | 123 | -3.6 | 5.0 | -3.3 | 4 | J |
| 353 | 7.9 | 94 | J | 9.3 | -25 | 147 | -6.2 | 2.9 | -4.4 | 5 | J |
| 368 | 7.3 | 72 | J | 8.9 | -10 | 111 | -2.8 | 6.5 | -3.7 | 4 | J |
| 375 | 6.7 | 55 | J | 8.3 | -16 | 99 | -1.2 | 6.0 | -4.8 | 3 | J |
| 377 | 7.3 | 84 | C | 7.9 | -32 | 112 | -2.4 | 3.7 | -6.3 | 2 | J |
| 358 | 7.5 | 66 | C | 8.1 | -27 | 119 | -3.3 | 3.7 | -5.9 | 3 | J |
| 389 | 7.1 | 84 | C | 8.7 | -17 | 103 | -1.7 | 5.3 | -5.7 | 4 | J |
| 404 | 7.0 | 66 | C | 9.2 | -22 | 60 | 3.2 | 3.5 | -5.0 | 6 | J |
| 401 | 7.6 | 75 | C | 8.1 | 6 | 77 | 1.6 | 6.4 | -2.9 | 4 | J |
| 398 | 7.9 | 71 | J | 7.7 | 9 | 72 | 2.1 | 6.2 | -2.3 | 3 | J |
| 415 | 7.5 | 75 | J | 7.7 | 42 | 24 | 5.2 | 4.5 | 3.4 | 1 | J |
| 419 | 7.3 | 57 | J | 7.9 | 37 | 53 | 3.7 | 6.4 | 1.9 | 2 | J |
| 405 | 8.6 | 63 | J | 6.9 | 53 | 54 | 2.3 | 4.9 | 3.4 | 3 | J |
| 389 | 12.7 | 60 | J | 4.6 | 55 | 58 | 1.3 | 3.3 | 2.6 | 2 | J |
| 390 | 11.5 | 61 | J | 4.5 | 46 | 56 | 1.7 | 3.4 | 2.2 | 1 | J |
| 388 | 17.4 | 32 | J | 2.8 | 5 | 140 | -1.6 | 1.3 | -0.2 | 2 | J |
| 384 | 16.1 | 25 | C | 2.5 | -1 | 189 | -2.5 | -0.4 | 0.0 | 0 | J |
| 380 | 10.9 | 28 | J | 5.6 | 1 | 160 | -5.2 | 1.9 | -0.2 | 1 | J |
| 379 | 10.6 | 29 | J | 5.8 | 3 | 168 | -5.6 | 1.2 | 0.1 | 1 | J |
| 369 | 8.9 | 25 | C | 5.3 | -6 | 181 | -5.2 | -0.2 | -0.6 | 1 | C |
| 372 | 7.8 | 23 | J | 5.3 | -7 | 195 | -5.1 | -1.4 | -0.5 | 1 | J |
| 370 | 10.3 | 22 | J | 4.8 | -14 | 197 | -4.4 | -1.5 | -1.0 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 12.1 | 20 | J | 4.3 | -16 | 219 | -3.2 | -2.7 | -0.8 | 1 | J |
| 2 | 368 | 9.4 | 18 | J | 5.2 | -17 | 214 | -4.0 | -2.9 | -1.0 | 1 | J |
| 3 | 364 | 9.1 | 20 | J | 4.9 | -17 | 208 | -4.1 | -2.4 | -0.9 | 1 | J |
| 4 | 361 | 9.0 | 22 | J | 5.1 | -16 | 206 | -4.4 | -2.4 | -0.8 | 1 | J |
| 5 | 352 | 7.1 | 27 | C | 5.9 | -24 | 203 | -4.9 | -2.8 | -1.6 | 1 | C |
| 6 | 352 | 8.3 | 27 | C | 6.0 | -35 | 205 | -4.3 | -3.0 | -2.3 | 2 | C |
| 7 | 357 | 9.7 | 26 | C | 6.3 | -24 | 213 | -4.7 | -3.8 | -1.0 | 1 | C |
| 8 | 371 | 9.8 | 21 | C | 6.6 | -31 | 226 | -3.8 | -5.0 | -1.1 | 2 | J |
| 9 | 376 | 11.5 | 25 | C | 7.6 | -83 | 171 | -0.9 | -3.5 | -6.5 | 2 | J |
| 10 | 392 | 13.3 | 25 | J | 7.9 | -78 | 142 | -1.3 | -3.0 | -7.2 | 1 | J |
| 11 | 388 | 14.7 | 32 | J | 7.4 | -62 | 106 | -0.9 | -0.4 | -7.1 | 1 | J |
| 12 | 388 | 14.1 | 42 | J | 7.2 | -46 | 97 | -0.6 | 1.7 | -6.6 | 2 | J |
| 13 | 380 | 14.4 | 37 | J | 6.6 | -13 | 106 | -1.5 | 4.0 | -3.6 | 4 | J |
| 14 | 381 | 13.7 | 43 | J | 6.9 | 1 | 110 | -2.3 | 5.6 | -2.6 | 2 | J |
| 15 | 374 | 13.0 | 45 | J | 6.9 | -6 | 123 | -3.6 | 4.8 | -2.9 | 2 | J |
| 16 | 391 | 14.4 | 59 | J | 6.4 | -58 | 106 | -0.8 | 0.9 | -5.4 | 3 | J |
| 17 | 390 | 14.8 | 67 | J | 7.1 | 1 | 101 | -1.1 | 5.4 | -1.6 | 4 | J |
| 18 | 380 | 13.7 | 70 | J | 6.8 | 42 | 145 | -3.4 | 3.3 | 3.0 | 4 | J |
| 19 | 374 | 13.2 | 72 | J | 7.1 | 50 | 152 | -3.7 | 3.0 | 4.4 | 3 | J |
| 20 | 367 | 11.9 | 79 | J | 5.9 | 36 | 165 | -3.9 | 1.5 | 2.7 | 3 | J |
| 21 | 362 | 11.1 | 80 | J | 5.9 | -56 | 137 | -2.4 | 1.5 | -5.1 | 1 | J |
| 22 | 361 | 10.4 | 71 | C | 4.9 | 41 | 212 | -2.6 | -1.3 | 2.8 | 2 | C |
| 23 | 423 | 5.0 | 90 | J | 6.4 | -21 | 127 | -3.5 | 4.3 | -2.7 | 2 | J |
| 24 | 443 | 8.1 | 121 | J | 3.1 | -17 | 336 | 2.4 | -1.1 | -0.7 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 440 | 7.3 | 84 | J | 4.4 | -1 | 295 | 1.2 | -2.6 | 0.3 | 3 | J |
| 465 | 6.0 | 69 | J | 4.6 | -12 | 14 | 4.3 | 0.9 | -1.1 | 1 | J |
| 440 | 5.0 | 126 | J | 4.0 | 6 | 347 | 3.7 | -0.7 | 0.6 | 1 | J |
| 432 | 7.0 | 70 | J | 5.2 | 7 | 328 | 4.0 | -2.2 | 1.2 | 2 | J |
| 420 | 7.3 | 59 | J | 4.0 | -4 | 305 | 1.3 | -1.8 | 0.4 | 3 | J |
| 399 | 7.0 | 85 | J | 5.4 | -9 | 158 | -4.9 | 1.5 | -1.5 | 1 | J |
| 387 | 8.5 | 71 | J | 4.6 | -18 | 157 | -3.9 | 0.9 | -2.0 | 1 | J |
| 387 | 6.6 | 51 | J | 4.9 | -18 | 143 | -3.7 | 1.8 | -2.6 | 1 | J |
| 409 | 8.1 | 59 | J | 4.0 | 2 | 306 | 1.8 | -2.1 | 1.3 | 3 | J |
| 406 | 7.8 | 56 | J | 4.0 | -3 | 337 | 1.9 | -0.8 | 0.3 | 4 | J |
| 367 | 8.3 | 38 | J | 4.7 | 3 | 225 | -3.1 | -2.6 | 1.8 | 2 | J |
| 357 | 8.9 | 60 | J | 5.7 | -1 | 204 | -4.9 | -2.0 | 1.0 | 2 | J |
| 342 | 9.4 | 50 | J | 6.3 | -2 | 173 | -6.1 | 0.6 | -0.5 | 2 | J |
| 407 | 5.9 | 58 | J | 6.7 | 0 | 142 | -5.2 | 3.7 | -1.8 | 1 | J |
| 415 | 7.4 | 63 | J | 5.4 | 48 | 279 | 0.3 | -0.9 | 2.7 | 5 | J |
| 407 | 6.9 | 89 | J | 4.6 | 53 | 246 | -0.6 | -0.6 | 2.4 | 4 | J |
| 408 | 6.9 | 88 | J | 6.4 | 10 | 160 | -4.7 | 1.9 | 0.3 | 4 | J |
| 422 | 6.9 | 96 | J | 6.7 | -31 | 103 | -1.2 | 4.1 | -4.3 | 3 | J |
| 411 | 6.4 | 100 | J | 6.9 | -26 | 131 | -3.8 | 3.7 | -3.6 | 2 | J |
| 419 | 8.0 | 114 | J | 6.5 | -48 | 132 | -2.8 | 2.3 | -5.1 | 1 | J |
| 430 | 10.2 | 111 | J | 5.9 | -84 | 309 | 0.3 | -0.9 | -4.1 | 4 | J |
| 424 | 16.3 | 79 | J | 4.7 | -33 | 149 | -2.9 | 1.5 | -2.4 | 3 | J |
| 415 | 14.1 | 59 | J | 5.2 | 1 | 123 | -2.5 | 3.8 | -0.3 | 2 | J |
| 414 | 9.5 | 50 | J | 6.1 | 46 | 260 | -0.7 | -3.4 | 4.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 10.5 | 62 | J | 6.4 | 29 | 259 | -1.1 | -5.0 | 3.8 | 1 | J |
| 2 | 410 | 7.3 | 65 | C | 2.8 | 56 | 181 | -1.4 | 0.3 | 2.0 | 1 | J |
| 3 | 397 | 6.4 | 86 | C | 5.1 | 30 | 263 | -0.5 | -3.3 | 3.0 | 1 | J |
| 4 | 391 | 7.7 | 74 | J | 4.9 | 41 | 228 | -2.2 | -1.6 | 3.0 | 2 | C |
| 5 | 394 | 8.4 | 86 | J | 4.4 | -23 | 224 | -2.0 | -2.2 | 3.4 | 2 | J |
| 6 | 386 | 7.3 | 84 | C | 3.5 | 37 | 173 | -0.7 | 0.3 | -0.5 | 4 | J |
| 7 | 361 | 4.9 | 39 | C | 7.0 | 15 | 146 | -5.6 | 4.2 | 0.4 | 3 | C |
| 8 | 372 | 3.4 | 44 | C | 7.0 | 11 | 135 | -4.8 | 4.9 | 0.1 | 0 | C |
| 9 | 382 | 3.9 | 53 | C | 6.3 | 14 | 149 | -5.1 | 3.5 | -0.9 | 1 | C |
| 10 | 378 | 4.9 | 54 | C | 5.6 | -1 | 143 | -4.4 | 2.9 | -0.1 | 1 | C |
| 11 | 369 | 4.5 | 59 | C | 5.5 | -5 | 138 | -3.9 | 2.9 | -1.7 | 1 | C |
| 12 | 370 | 3.6 | 48 | C | 6.1 | 5 | 124 | -3.4 | 4.5 | -2.2 | 1 | C |
| 13 | 358 | 3.4 | 48 | C | 5.8 | 0 | 121 | -2.9 | 4.3 | -1.9 | 1 | C |
| 14 | 356 | 4.0 | 56 | C | 5.2 | -7 | 117 | -2.2 | 3.7 | -2.3 | 1 | C |
| 15 | 361 | 3.9 | 59 | J | 4.5 | -28 | 128 | -2.4 | 2.0 | -2.4 | 1 | C |
| 16 | 351 | 4.2 | 83 | J | 4.4 | -31 | 142 | -2.8 | 1.3 | -3.1 | 1 | J |
| 17 | 333 | 4.8 | 49 | C | 3.7 | -9 | 163 | -3.5 | 0.8 | -2.8 | 1 | J |
| 18 | 333 | 5.1 | 47 | C | 3.7 | 4 | 159 | -3.4 | 1.3 | -0.9 | 0 | J |
| 19 | 337 | 4.0 | 47 | J | 4.4 | 36 | 163 | -3.2 | 1.5 | -0.1 | 1 | J |
| 20 | 355 | 4.3 | 52 | J | 4.8 | 18 | 122 | -2.2 | 3.7 | 2.2 | 1 | J |
| 21 | 357 | 4.7 | 48 | J | 4.9 | 14 | 119 | -2.1 | 3.9 | 0.8 | 2 | J |
| 22 | 361 | 4.7 | 35 | J | 4.9 | -7 | 114 | -1.8 | 4.0 | 0.6 | 2 | J |
| 23 | 359 | 5.1 | 22 | J | 5.0 | 0 | 112 | -1.8 | 4.4 | -1.0 | 2 | J |
| 24 | 355 | 5.2 | 20 | J | 5.1 | -3 | 108 | -1.5 | 4.6 | -0.5 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 353 | 6.1 | 22 | J | 4.9 | 8 | 114 | -1.9 | 4.2 | 0.1 | 2 | J |
| 2 | 342 | 4.6 | 23 | J | 5.6 | -30 | 135 | -3.4 | 2.9 | -3.3 | 1 | J |
| 3 | 343 | 5.7 | 22 | J | 5.0 | -48 | 147 | -2.7 | 1.0 | -3.8 | 1 | J |
| 4 | 343 | 10.1 | 20 | J | 3.4 | -53 | 228 | -1.2 | -1.8 | -1.9 | 2 | J |
| 5 | 342 | 8.4 | 20 | J | 3.9 | -68 | 143 | -0.9 | -0.2 | -2.9 | 2 | J |
| 6 | 343 | 8.1 | 26 | J | 3.5 | -43 | 109 | -0.7 | 1.1 | -2.5 | 2 | J |
| 7 | 346 | 8.0 | 37 | J | 3.1 | -71 | 94 | -0.0 | -0.1 | -1.5 | 3 | J |
| 8 | 340 | 8.0 | 30 | J | 2.6 | 41 | 132 | -1.2 | 1.9 | 0.8 | 1 | J |
| 9 | 335 | 9.6 | 37 | C | 3.5 | 17 | 149 | -2.5 | 1.8 | 0.1 | 1 | C |
| 10 | 339 | 9.8 | 42 | C | 3.8 | -1 | 133 | -2.4 | 2.2 | -1.3 | 1 | C |
| 11 | 337 | 9.8 | 31 | C | 4.2 | 14 | 121 | -2.0 | 3.4 | -0.8 | 1 | C |
| 12 | 340 | 10.7 | 33 | C | 3.8 | 43 | 133 | -1.7 | 2.7 | 1.1 | 1 | C |
| 13 | 338 | 10.7 | 31 | C | 4.0 | 13 | 111 | -1.4 | 3.5 | -0.8 | 1 | C |
| 14 | 336 | 11.0 | 31 | C | 3.9 | 18 | 127 | -2.0 | 2.9 | -0.2 | 1 | C |
| 15 | 337 | 9.7 | 30 | C | 4.2 | -9 | 126 | -2.4 | 2.7 | -1.9 | 0 | C |
| 16 | 331 | 10.9 | 34 | C | 4.4 | 2 | 129 | -2.7 | 3.2 | -1.0 | 1 | C |
| 17 | 332 | 9.4 | 34 | J | 4.3 | -9 | 143 | -3.4 | 2.2 | -1.4 | 0 | J |
| 18 | 326 | 10.5 | 32 | C | 4.5 | 0 | 137 | -3.2 | 2.9 | -0.7 | 1 | C |
| 19 | 324 | 10.6 | 33 | C | 4.3 | 7 | 134 | -2.8 | 3.0 | -0.1 | 1 | C |
| 20 | 323 | 10.4 | 34 | C | 4.1 | 25 | 146 | -2.8 | 2.2 | 1.3 | 2 | C |
| 21 | 321 | 10.4 | 36 | C | 4.3 | 39 | 153 | -2.9 | 1.9 | 2.4 | 1 | C |
| 22 | 321 | 10.7 | 31 | C | 4.1 | 30 | 146 | -2.6 | 1.9 | 1.6 | 2 | C |
| 23 | 332 | 10.5 | 32 | C | 4.0 | 10 | 118 | -1.4 | 2.8 | 0.3 | 2 | C |
| 24 | 330 | 10.3 | 28 | C | 4.3 | 54 | 146 | -1.6 | 1.4 | 2.5 | 2 | C |

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310

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 330 | 10.5 | 32 | C | 4.1 | 33 | 126 | -1.8 | 2.7 | 1.6 | 2 | C |
| 2 | 317 | 9.3 | 25 | C | 5.2 | 43 | 163 | -3.5 | 1.6 | 3.3 | 1 | C |
| 3 | 314 | 9.5 | 23 | C | 5.2 | 48 | 184 | -3.5 | 0.5 | 3.8 | 0 | C |
| 4 | 310 | 10.5 | 26 | C | 4.7 | 32 | 167 | -3.4 | 1.3 | 1.9 | 2 | C |
| 5 | 310 | 11.5 | 25 | C | 4.7 | 10 | 167 | -4.4 | 1.2 | 0.4 | 1 | C |
| 6 | 309 | 10.7 | 24 | C | 5.2 | 26 | 167 | -4.5 | 1.8 | 1.8 | 0 | C |
| 7 | 313 | 11.1 | 25 | C | 5.1 | 26 | 167 | -4.2 | 1.8 | 1.6 | 1 | C |
| 8 | 291 | 14.2 | 51 | A |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 315 | 11.4 | 22 | C | 5.7 | 11 | 147 | -4.7 | 3.2 | -0.6 | 0 | C |
| 11 | 314 | 11.6 | 21 | C | 5.6 | -2 | 141 | -4.3 | 3.0 | -1.9 | 1 | C |
| 12 | 314 | 11.1 | 21 | C | 5.8 |  | 134 | -3.9 | 3.6 | -1.9 | 1 | C |
| 13 | 314 | 10.2 | 23 | C | 5.9 | 0 | 134 | -4.0 | 3.7 | -1.9 | 1 | C |
| 14 | 314 | 10.9 | 24 | C | 5.6 | -10 | 137 | -4.0 | 3.0 | -2.4 | 0 | C |
| 15 | 314 | 9.2 | 23 | C | 6.2 | -4 | 142 | -4.9 | 3.3 | -1.8 | 1 | C |
| 16 | 322 | 11.1 | 20 | C | 6.0 | 6 | 148 | -5.0 | 3.1 | -0.4 | 1 | C |
| 17 | 321 | 12.4 | 15 | C | 5.6 | 0 | 146 | -4.6 | 3.0 | -0.9 | 0 | C |
| 18 | 321 | 11.3 | 11 | C | 5.9 | -2 | 139 | -4.4 | 3.7 | -1.1 | 0 | C |
| 19 | 319 | 12.8 | 11 | C | 5.4 | 2 | 140 | -4.1 | 3.5 | -0.5 | 0 | C |
| 20 | 317 | 18.2 | 11 | C | 4.4 | 1 | 146 | -3.6 | 2.4 | -0.3 | 1 | C |
| 21 | 315 | 19.7 | 12 | C | 4.2 | 6 | 151 | -3.7 | 2.0 | 0.2 | 0 | C |
| 22 | 310 | 22.7 | 13 | C | 3.9 | 9 | 151 | -3.3 | 1.9 | 0.4 | 1 | C |
| 23 | 308 | 22.9 | 14 | C | 3.0 | 24 | 163 | -2.6 | 0.9 | 1.1 | 1 | C |
| 24 | 307 | 21.7 | 21 | C | 3.5 | 25 | 187 | -2.4 | -0.2 | 1.2 | 2 | C |

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311

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 310 | 22.5 | 18 | C | 4.9 | 27 | 187 | -4.0 | -0.2 | 2.1 | 2 | C |
| 2 | 306 | 17.6 | 19 | C | 6.2 | 20 | 227 | -3.7 | -3.6 | 2.6 | 2 | C |
| 3 | 302 | 17.3 | 18 | C | 5.6 | 7 | 241 | -2.6 | -4.5 | 1.6 | 1 | C |
| 4 | 302 | 18.0 | 21 | C | 4.9 | 2 | 235 | -2.8 | -3.8 | 1.1 | 1 | C |
| 5 | 301 | 18.3 | 16 | C | 5.0 | 7 | 249 | -1.7 | -4.1 | 1.9 | 1 | C |
| 6 | 299 | 18.4 | 18 | C | 4.7 | 7 | 227 | -3.0 | -2.8 | 1.7 | 1 | C |
| 7 | 295 | 16.8 | 16 | C | 4.8 | 10 | 240 | -2.3 | -3.3 | 2.3 | 1 | C |
| 8 | 291 | 17.4 | 16 | C | 4.5 | 4 | 249 | -1.5 | -3.5 | 2.1 | 1 | C |
| 9 | 294 | 18.2 | 17 | C | 4.2 | 18 | 231 | -2.3 | -2.0 | 2.4 | 1 | C |
| 10 | 297 | 21.4 | 18 | C | 4.7 | 25 | 248 | -1.5 | -2.4 | 3.5 | 1 | C |
| 11 | 289 | 24.8 | 21 | C | 5.7 | 13 | 317 | 3.1 | -2.1 | 2.2 | 3 | C |
| 12 | 287 | 29.3 | 19 | C | 6.2 | 24 | 338 | 4.7 | -0.6 | 2.9 | 3 | C |
| 13 | 289 | 29.7 | 15 | C | 6.1 | -2 | 295 | 2.5 | -4.8 | 2.2 | 1 | C |
| 14 | 292 | 29.1 | 14 | C | 6.4 | 14 | 301 | 3.2 | -4.1 | 3.7 | 0 | C |
| 15 | 288 | 31.8 | 20 | C | 5.8 | 19 | 321 | 4.0 | -2.3 | 2.8 | 1 | C |
| 16 | 285 | 29.4 | 18 | C | 6.2 | -15 | 313 | 3.8 | -4.3 | -0.0 | 2 | C |
| 17 | 293 | 23.0 | 24 | C | 7.8 | -14 | 304 | 3.9 | -6.1 | 0.0 | 3 | C |
| 18 | 317 | 11.1 | 40 | C | 8.4 | -10 | 307 | 4.8 | -6.5 | 0.1 | 2 | C |
| 19 | 335 | 12.2 | 34 | C | 8.0 | -17 | 300 | 3.7 | -6.7 | -0.9 | 2 | C |
| 20 | 357 | 18.7 | 35 | C | 7.3 | -10 | 267 | -0.3 | -4.3 | -0.1 | 6 | C |
| 21 | 347 | 29.3 | 37 | C | 9.7 | -12 | 81 | 0.6 | 3.8 | -1.3 | 8 | C |
| 22 | 353 | 19.6 | 35 | C | 11.8 | -66 | 107 | -1.4 | 3.4 | -10.9 | 2 | C |
| 23 | 361 | 17.0 | 35 | C | 10.9 | -82 | 55 | 0.9 | 0.4 | -10.7 | 2 | C |
| 24 | 335 | 15.6 | 31 | C | 11.6 | -62 | 331 | 4.7 | -3.5 | -9.8 | 1 | C |

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312

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 338 | 13.6 | 29 | C | 12.1 | -59 | 335 | 5.6 | -3.7 | -9.9 | 2 | C |
| 2 | 361 | 11.9 | 53 | C | 14.1 | -43 | 311 | 6.6 | -8.9 | -8.2 | 4 | C |
| 3 | 437 | 17.2 | 121 | C | 20.4 | -6 | 290 | 6.7 | -18.4 | 1.4 | 5 | C |
| 4 | 437 | 16.0 | 139 | C | 18.4 | -6 | 291 | 6.6 | -16.8 | 2.1 | 2 | C |
| 5 | 449 | 17.6 | 111 | C | 18.2 | 22 | 298 | 6.1 | -9.4 | 8.5 | 11 | C |
| 6 | 436 | 19.4 | 126 | C | 14.4 | 31 | 313 | 7.5 | -5.2 | 8.9 | 5 | C |
| 7 | 488 | 10.0 | 176 | C | 19.4 | 17 | 305 | 10.3 | -11.2 | 10.8 | 4 | C |
| 8 | 432 | 9.0 | 173 | C | 18.6 | 18 | 299 | 8.2 | -10.9 | 11.6 | 4 | C |
| 9 | 414 | 11.2 | 165 | C | 16.5 | 17 | 296 | 6.7 | -10.0 | 10.6 | 3 | C |
| 10 | 428 | 10.5 | 174 | C | 16.3 | 41 | 315 | 7.2 | -2.2 | 11.2 | 7 | C |
| 11 | 459 | 4.5 | 201 | C | 18.4 | 56 | 342 | 9.0 | 4.3 | 13.8 | 6 | C |
| 12 | 463 | 4.0 | 190 | C | 18.3 | 29 | 298 | 7.1 | -7.8 | 13.5 | 5 | C |
| 13 | 478 | 5.0 | 147 | C | 17.6 | 23 | 291 | 5.4 | -9.9 | 12.1 | 5 | C |
| 14 | 453 | 6.2 | 87 | C | 17.7 | 24 | 299 | 7.6 | -9.4 | 12.1 | 3 | C |
| 15 | 447 | 8.1 | 74 | C | 17.0 | 20 | 300 | 7.8 | -10.4 | 10.4 | 3 | C |
| 16 | 453 | 7.9 | 84 | C | 15.9 | 29 | 321 | 9.9 | -5.2 | 9.3 | 6 | C |
| 17 | 463 | 12.8 | 65 | C | 12.6 | 34 | 337 | 8.9 | -1.8 | 7.2 | 5 | C |
| 18 | 462 | 16.2 | 42 | C | 9.3 | 9 | 327 | 7.1 | -4.2 | 2.4 | 3 | C |
| 19 | 458 | 12.0 | 55 | C | 9.5 | 17 | 304 | 4.5 | -6.1 | 3.7 | 4 | C |
| 20 | 456 | 10.1 | 46 | C | 9.3 | 20 | 314 | 5.6 | -5.4 | 3.8 | 3 | C |
| 21 | 451 | 9.8 | 35 | C | 9.7 | 0 | 324 | 7.7 | -5.5 | 0.6 | 2 | C |
| 22 | 453 | 8.4 | 47 | C | 9.5 | 5 | 316 | 6.6 | -6.4 | 1.4 | 1 | C |
| 23 | 457 | 8.4 | 47 | C | 9.4 | 6 | 313 | 6.1 | -6.5 | 1.4 | 2 | C |
| 24 | 471 | 8.5 | 44 | C | 9.3 | -11 | 298 | 4.1 | -8.0 | -1.0 | 2 | C |

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313

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 453 | 8.7 | 42 | C | 9.3 | -17 | 320 | 6.7 | -5.8 | -2.1 | 2 | C |
| 2 | 448 | 8.3 | 46 | C | 9.2 | -16 | 321 | 6.7 | -5.7 | -1.7 | 2 | C |
| 3 | 432 | 7.2 | 39 | C | 9.0 | -5 | 315 | 6.3 | -6.2 | 0.4 | 1 | C |
| 4 | 425 | 7.4 | 43 | C | 8.1 | 6 | 320 | 6.0 | -4.6 | 1.9 | 2 | C |
| 5 | 430 | 6.6 | 30 | C | 8.4 | -15 | 320 | 6.1 | -5.5 | -0.6 | 2 | C |
| 6 | 430 | 5.0 | 38 | C | 8.2 | -18 | 328 | 6.4 | -4.6 | -0.9 | 2 | C |
| 7 | 435 | 4.9 | 49 | C | 8.2 | -22 | 314 | 5.2 | -6.0 | -0.6 | 2 | C |
| 8 | 475 | 5.1 | 112 | C | 6.1 | -76 | 281 | 0.2 | -2.7 | -3.3 | 4 | C |
| 9 | 442 | 4.7 | 90 | C | 7.2 | -26 | 305 | 3.4 | -5.6 | -0.3 | 3 | C |
| 10 | 442 | 4.5 | 87 | C | 7.5 | 0 | 292 | 2.7 | -5.9 | 3.2 | 1 | C |
| 11 | 438 | 4.8 | 105 | C | 6.6 | -3 | 302 | 3.4 | -4.8 | 2.2 | 1 | C |
| 12 | 442 | 5.4 | 109 | C | 6.2 | -10 | 300 | 2.8 | -4.8 | 1.4 | 2 | C |
| 13 | 449 | 5.4 | 108 | C | 6.0 | 9 | 282 | 1.1 | -4.4 | 3.1 | 2 | C |
| 14 | 457 | 5.4 | 143 | C | 5.6 | 9 | 272 | 0.1 | -4.0 | 2.6 | 3 | C |
| 15 | 452 | 5.0 | 136 | C | 5.7 | -24 | 279 | 0.7 | -5.3 | -0.2 | 2 | C |
| 16 | 449 | 4.9 | 150 | C | 4.6 | 21 | 299 | 2.0 | -2.9 | 2.7 | 1 | C |
| 17 | 452 | 5.2 | 135 | C | 5.6 | 36 | 317 | 3.1 | -1.9 | 3.8 | 2 | C |
| 18 | 470 | 4.8 | 133 | C | 6.5 | 85 | 349 | 0.5 | 1.2 | 5.6 | 3 | C |
| 19 | 488 | 4.8 | 131 | C | 6.9 | 65 | 129 | -1.8 | 3.3 | 5.6 | 1 | C |
| 20 | 510 | 4.5 | 96 | C | 7.8 | 57 | 143 | -3.4 | 3.4 | 6.0 | 1 | C |
| 21 | 494 | 4.6 | 96 | C | 7.7 | 45 | 109 | -1.6 | 5.0 | 4.3 | 3 | C |
| 22 | 477 | 4.8 | 90 | C | 7.0 | 37 | 59 | 2.8 | 4.9 | 3.5 | 2 | C |
| 23 | 475 | 4.3 | 98 | C | 6.9 | 14 | 50 | 4.2 | 5.2 | 1.3 | 1 | C |
| 24 | 468 | 4.2 | 82 | C | 6.2 | 6 | 39 | 4.8 | 3.9 | 0.4 | 0 | C |

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314

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 454 | 8.0 | 52 | C |  |  |  |  |  |  |  |  |
| 2 | 498 | 6.6 | 72 | J | 5.3 | 15 | 114 | -1.2 | 2.8 | 0.4 | 4 | J |
| 3 | 471 | 8.5 | 39 | J | 4.6 | 25 | 354 | 3.9 | -0.1 | 1.9 | 1 | J |
| 4 | 467 | 8.2 | 44 | J | 3.9 | 19 | 354 | 3.2 | -0.1 | 1.2 | 2 | J |
| 5 | 464 | 9.2 | 42 | J | 3.7 | 39 | 20 | 2.6 | 1.5 | 1.8 | 1 | J |
| 6 | 461 | 9.0 | 59 | J | 3.7 | 26 | 6 | 3.1 | 0.8 | 1.3 | 1 | J |
| 7 | 461 | 9.6 | 72 | J | 3.2 | 25 | 21 | 2.5 | 1.4 | 0.8 | 1 | J |
| 8 | 452 | 9.6 | 74 | J | 3.1 | 18 | 12 | 2.8 | 0.9 | 0.6 | 1 | J |
| 9 | 446 | 9.7 | 74 | J | 3.3 | 17 | 13 | 2.9 | 1.0 | 0.5 | 1 | J |
| 10 | 440 | 11.2 | 58 | J | 3.0 | 19 | 3 | 2.7 | 0.6 | 0.8 | 1 | J |
| 11 | 442 | 12.8 | 55 | J | 3.0 | 24 | 358 | 2.6 | 0.5 | 1.1 | 1 | J |
| 12 | 437 | 12.8 | 65 | J | 3.0 | 2 | 342 | 2.4 | -0.6 | 0.4 | 2 | J |
| 13 | 431 | 16.3 | 59 | J | 3.8 | -19 | 336 | 3.1 | -1.8 | -0.4 | 1 | J |
| 14 | 438 | 12.1 | 51 | J | 8.0 | 4 | 317 | 5.5 | -4.5 | 2.6 | 2 | J |
| 15 | 425 | 10.7 | 39 | J | 8.9 | -2 | 318 | 6.3 | -5.4 | 1.8 | 2 | J |
| 16 | 429 | 13.2 | 46 | J | 9.1 | -22 | 333 | 7.4 | -4.7 | -2.0 | 1 | J |
| 17 | 433 | 16.2 | 48 | J | 9.4 | -44 | 4 | 6.7 | -1.3 | -6.4 | 1 | J |
| 18 | 423 | 15.6 | 42 | J | 9.6 | -45 | 11 | 6.5 | -0.2 | -6.8 | 2 | J |
| 19 | 433 | 18.3 | 55 | J | 9.7 | -31 | 330 | 6.2 | -4.2 | -3.6 | 5 | J |
| 20 | 414 | 14.3 | 32 | C | 10.4 | -46 | 6 | 6.8 | -0.2 | -7.2 | 3 | C |
| 21 | 419 | 14.0 | 42 | J | 10.5 | -47 | 64 | 3.1 | 5.5 | -8.3 | 1 | C |
| 22 | 424 | 9.2 | 30 | C | 9.7 | -48 | 79 | 1.2 | 5.5 | -7.3 | 3 | J |
| 23 | 442 | 4.8 | 35 | C | 10.3 | -43 | 2 | 7.4 | -0.2 | -6.9 | 2 | C |
| 24 | 421 | 14.4 | 50 | J | 7.8 | -31 | 341 | 6.2 | -2.4 | -3.8 | 2 | J |

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315

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 419 | 14.3 | 49 | J | 6.7 | -23 | 340 | 5.6 | -2.3 | -2.3 | 2 | J |
| 2 | 417 | 15.4 | 57 | J | 6.2 | -21 | 345 | 5.6 | -1.8 | -2.0 | 0 | J |
| 3 | 416 | 16.0 | 63 | J | 5.9 | -21 | 336 | 4.9 | -2.5 | -1.6 | 1 | J |
| 4 | 427 | 15.2 | 54 | J | 6.0 | -11 | 324 | 4.7 | -3.6 | -0.3 | 1 | J |
| 5 | 422 | 14.1 | 47 | J | 5.8 | -9 | 314 | 3.9 | -4.1 | 0.3 | 1 | J |
| 6 | 422 | 13.9 | 55 | J | 5.6 | -4 | 310 | 3.4 | -3.9 | 1.0 | 2 | J |
| 7 | 417 | 13.2 | 43 | J | 7.0 | -3 | 319 | 5.1 | -4.2 | 1.4 | 1 | J |
| 8 | 414 | 14.4 | 37 | J | 6.2 | -6 | 313 | 3.9 | -4.0 | 1.2 | 2 | J |
| 9 | 416 | 15.9 | 31 | J | 8.4 | -3 | 297 | 3.6 | -6.5 | 2.8 | 3 | J |
| 10 | 406 | 13.7 | 33 | J | 7.1 | 0 | 322 | 5.4 | -3.8 | 2.0 | 2 | J |
| 11 | 401 | 13.6 | 35 | J | 6.4 | -9 | 319 | 4.6 | -4.0 | 1.0 | 2 | J |
| 12 | 398 | 13.1 | 36 | J | 6.6 | -5 | 329 | 5.6 | -3.2 | 1.0 | 1 | J |
| 13 | 402 | 15.5 | 37 | J | 6.5 | -2 | 319 | 4.8 | -3.8 | 1.6 | 1 | J |
| 14 | 400 | 16.6 | 37 | J | 7.0 | 12 | 317 | 4.8 | -3.5 | 3.1 | 2 | J |
| 15 | 395 | 14.8 | 32 | J | 6.5 | 12 | 335 | 5.5 | -1.9 | 2.1 | 2 | J |
| 16 | 396 | 14.1 | 20 | J | 8.1 | -6 | 343 | 7.6 | -2.5 | -0.1 | 1 | J |
| 17 | 393 | 14.1 | 22 | J | 7.6 | -2 | 343 | 7.2 | -2.2 | 0.3 | 1 | J |
| 18 | 389 | 14.6 | 22 | J | 7.8 | -10 | 347 | 7.5 | -2.0 | -0.9 | 1 | J |
| 19 | 389 | 14.5 | 28 | J | 7.7 | -10 | 352 | 7.4 | -1.3 | -1.1 | 1 | J |
| 20 | 381 | 16.9 | 31 | J | 8.0 | -17 | 343 | 7.0 | -2.4 | -2.0 | 2 | J |
| 21 | 379 | 16.1 | 30 | J | 8.2 | -24 | 0 | 7.3 | -0.3 | -3.2 | 2 | J |
| 22 | 372 | 14.2 | 22 | J | 8.0 | -23 | 4 | 7.2 | 0.3 | -3.1 | 2 | J |
| 23 | 368 | 9.6 | 17 | C | 8.1 | -23 | 4 | 7.4 | 0.3 | -3.2 | 0 | J |
| 24 | 376 | 5.4 | 23 | C | 7.5 | -23 | 7 | 6.7 | 0.6 | -2.9 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 368 | 4.7 | 26 | C | 7.7 | -20 | 356 | 7.0 | -0.8 | -2.5 | 0 | C |
| 2 | 685 | 9.2 | 864 | J | 12.3 | -45 | 218 | -2.1 | -1.9 | -2.4 | 12 | J |
| 3 | 663 | 12.2 | 804 | J | 15.9 | 31 | 281 | 1.9 | -8.6 | 7.5 | 11 | J |
| 4 | 615 | 21.6 | 703 | J | 19.2 | 10 | 293 | 6.2 | -13.7 | 6.0 | 11 | J |
| 5 | 654 | 19.4 | 911 | J | 22.2 | 74 | 209 | -4.7 | 2.7 | 18.7 | 11 | J |
| 6 | 625 | 9.6 | 819 | J | 29.0 | -16 | 273 | 1.4 | -28.2 | 1.7 | 7 | J |
| 7 | 600 | 26.7 | 370 | C | 22.4 | -35 | 282 | 2.2 | -12.6 | -3.0 | 19 | J |
| 8 | 633 | 33.9 | 361 | J | 12.4 | -23 | 184 | -9.0 | -2.2 | -3.2 | 8 | J |
| 9 | 638 | 33.4 | 300 | J | 20.3 | -5 | 251 | -5.0 | -13.7 | 5.3 | 15 | J |
| 10 | 613 | 34.7 | 359 | J | 16.9 | -27 | 83 | 1.1 | 5.6 | -7.9 | 14 | J |
| 11 | 588 | 18.7 | 464 | J | 18.2 | -26 | 61 | 7.3 | 8.3 | -12.6 | 8 | J |
| 12 | 597 | 16.3 | 412 | J | 16.7 | 39 | 259 | -1.7 | -4.5 | 10.3 | 13 | J |
| 13 | 565 | 12.7 | 299 | J | 19.0 | 48 | 318 | 9.3 | -1.6 | 16.2 | 3 | J |
| 14 | 584 | 22.7 | 213 | J | 15.1 | 64 | 37 | 3.7 | 6.3 | 7.6 | 11 | J |
| 15 | 585 | 35.2 | 125 | J | 11.3 | 58 | 12 | 4.5 | 3.5 | 6.5 | 7 | J |
| 16 | 563 | 20.7 | 134 | J | 11.3 | 22 | 299 | 4.9 | -7.1 | 6.6 | 3 | J |
| 17 | 557 | 11.9 | 122 | J | 10.9 | -19 | 285 | 2.5 | -10.1 | -0.8 | 3 | J |
| 18 | 571 | 4.9 | 119 | C | 12.7 | 56 | 287 | 1.9 | -4.1 | 11.0 | 4 | J |
| 19 | 567 | 8.6 | 63 | C | 12.2 | -9 | 262 | -1.6 | -12.0 | 0.1 | 1 | C |
| 20 | 566 | 9.4 | 57 | J | 12.5 | -24 | 264 | -1.2 | -11.5 | -3.5 | 3 | J |
| 21 | 571 | 8.2 | 62 | J | 11.9 | -28 | 268 | -0.4 | -10.9 | -4.6 | 1 | J |
| 22 | 567 | 6.0 | 59 | J | 11.5 | -19 | 273 | 0.6 | -10.9 | -2.9 | 2 | J |
| 23 | 551 | 3.9 | 36 | C | 11.6 | -22 | 268 | -0.4 | -10.9 | -3.6 | 1 | C |
| 24 | 561 | 3.6 | 43 | J | 10.7 | -27 | 274 | 0.7 | -9.8 | -4.2 | 1 | J |

### NOV. 13, 1978 317

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 555 | 2.9 | 43 | J | 10.4 | -35 | 270 | -0.0 | -8.9 | -5.2 | 1 | J |
| 2 | 570 | 2.1 | 56 | J | 9.7 | -33 | 268 | -0.3 | -8.6 | -4.3 | 2 | J |
| 3 | 559 | 2.3 | 59 | J | 10.1 | -36 | 265 | -0.7 | -8.3 | -4.2 | 4 | J |
| 4 | 554 | 3.1 | 47 | J | 10.1 | -25 | 267 | -0.5 | -9.6 | -2.2 | 2 | J |
| 5 | 549 | 4.7 | 51 | C | 9.6 | -4 | 275 | 0.7 | -8.3 | 1.7 | 4 | J |
| 6 | 570 | 3.5 | 64 | C | 8.5 | -19 | 264 | -0.8 | -8.0 | -0.0 | 3 | J |
| 7 | 570 | 5.1 | 57 | J | 7.8 | -25 | 266 | -0.5 | -7.6 | -0.4 | 2 | J |
| 8 | 523 | 3.1 | 64 | C | 7.0 | -13 | 243 | -2.6 | -5.2 | 0.9 | 4 | J |
| 9 | 508 | 1.3 | 51 | J | 7.4 | -2 | 230 | -4.6 | -5.0 | 2.2 | 2 | J |
| 10 | 513 | 1.6 | 73 | C | 7.1 | 18 | 237 | -3.6 | -3.9 | 4.4 | 1 | J |
| 11 | 581 | 2.5 | 66 | J | 8.9 | 33 | 294 | 2.5 | -3.2 | 6.1 | 5 | J |
| 12 | 554 | 4.0 | 45 | J | 9.6 | -17 | 252 | -2.7 | -8.5 | 1.3 | 3 | J |
| 13 | 524 | 4.4 | 43 | J | 10.0 | -45 | 214 | -5.6 | -6.3 | -4.5 | 2 | J |
| 14 |  |  |  |  | 9.6 | -47 | 226 | -4.4 | -6.9 | -4.5 | 2 | J |
| 15 | 496 | 0.9 | 16 | C | 10.0 | -52 | 194 | -5.8 | -4.1 | -6.6 | 3 | J |
| 16 | 489 | 0.7 | 19 | C | 10.4 | -53 | 166 | -6.1 | -1.1 | -8.4 | 1 | J |
| 17 | 504 | 0.9 | 38 | C | 10.1 | -45 | 181 | -7.0 | -1.9 | -6.7 | 2 | J |
| 18 | 521 | 1.7 | 163 | C | 9.9 | -43 | 176 | -7.1 | -0.9 | -6.6 | 2 | J |
| 19 | 577 | 1.2 | 80 | J | 7.9 | 20 | 255 | -1.9 | -6.5 | 3.7 | 2 | J |
| 20 | 530 | 1.5 | 48 | J | 7.6 | 23 | 250 | -2.1 | -5.5 | 3.3 | 3 | J |
| 21 | 521 | 1.2 | 41 | J | 7.3 | 9 | 232 | -4.3 | -5.3 | 1.6 | 2 | J |
| 22 | 555 | 1.0 | 51 | J | 6.8 | 33 | 242 | -2.6 | -4.7 | 3.9 | 2 | J |
| 23 | 546 | 1.0 | 51 | J | 6.5 | 32 | 244 | -2.4 | -4.7 | 3.6 | 1 | J |
| 24 | 558 | 1.2 | 43 | C | 6.8 | 38 | 268 | -0.2 | -4.9 | 4.4 | 1 | C |

### NOV. 14, 1978 318

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 517 | 1.3 | 22 | C | 6.6 | 39 | 244 | -2.2 | -4.2 | 4.4 | 0 | C |
| 2 | 531 | 1.5 | 27 | C | 6.7 | 35 | 252 | -1.7 | -4.8 | 4.4 | 1 | C |
| 3 | 545 | 1.5 | 30 | C | 7.0 | 41 | 262 | -0.6 | -3.8 | 4.5 | 3 | C |
| 4 | 550 | 1.4 | 32 | C | 7.3 | 51 | 259 | -0.8 | -3.0 | 6.0 | 2 | C |
| 5 | 562 | 1.6 | 28 | C | 7.3 | 26 | 284 | 1.5 | -5.1 | 4.6 | 2 | C |
| 6 | 518 | 1.7 | 33 | C | 7.1 | 25 | 269 | -0.1 | -4.9 | 4.7 | 2 | C |
| 7 | 503 | 1.9 | 28 | C | 7.0 | 19 | 246 | -2.3 | -4.1 | 3.8 | 3 | C |
| 8 | 466 | 2.2 | 17 | C | 7.0 | 20 | 241 | -3.0 | -4.0 | 4.3 | 2 | C |
| 9 | 460 | 1.9 | 24 | C | 6.9 | 7 | 241 | -3.1 | -4.5 | 3.1 | 2 | C |
| 10 | 434 | 2.2 | 24 | J | 7.9 | 4 | 221 | -5.7 | -4.2 | 2.7 | 2 | J |
| 11 | 457 | 2.1 | 39 | C | 7.5 | 11 | 227 | -4.6 | -3.8 | 3.4 | 3 | J |
| 12 | 511 | 1.7 | 43 | J | 7.3 | 62 | 218 | -2.2 | 0.8 | 5.4 | 4 | J |
| 13 | 473 | 1.3 | 46 | J | 7.4 | -22 | 153 | -4.5 | 1.2 | -2.8 | 5 | J |
| 14 | 489 | 1.1 | 35 | C | 7.8 | -47 | 135 | -3.8 | 1.2 | -6.7 | 1 | J |
| 15 | 523 | 0.6 | 250 | J | 8.0 | -42 | 129 | -3.7 | 2.4 | -6.5 | 2 | J |
| 16 | 476 | 1.4 | 30 | C | 7.8 | -30 | 123 | -3.7 | 4.2 | -5.4 | 1 | J |
| 17 | 477 | 1.0 | 51 | J | 7.5 | -24 | 130 | -4.4 | 4.3 | -4.3 | 1 | J |
| 18 | 486 | 1.2 | 55 | J | 7.3 | -25 | 132 | -4.3 | 4.1 | -3.9 | 2 | J |
| 19 | 461 | 1.3 | 47 | J | 7.2 | -29 | 160 | -5.8 | 1.6 | -3.7 | 1 | J |
| 20 | 426 | 1.1 | 54 | C | 6.8 | -23 | 176 | -6.1 | 0.1 | -2.6 | 1 | J |
| 21 | 376 | 1.6 | 44 | C | 7.1 | 0 | 184 | -6.6 | -0.5 | 0.0 | 2 | J |
| 22 | 382 | 1.6 | 27 | C | 7.5 | 12 | 195 | -7.0 | -1.8 | 1.6 | 1 | J |
| 23 | 384 | 1.3 | 39 | C | 7.5 | 0 | 208 | -6.5 | -3.4 | 0.2 | 1 | C |
| 24 | 383 | 1.4 | 51 | C | 7.8 | 20 | 179 | -7.2 | 0.2 | 2.6 | 1 | C |

### NOV. 15, 1978 319

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 368 | 1.6 | 35 | C | 7.8 | -1 | 174 | -7.7 | 0.7 | -0.2 | 1 | C |
| 2 | 421 | 1.1 | 71 | C | 8.0 | -19 | 159 | -6.9 | 2.4 | -2.9 | 1 | C |
| 3 | 414 | 0.9 | 80 | C | 7.8 | -19 | 154 | -6.5 | 2.8 | -3.0 | 1 | C |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 429 | 2.1 | 190 | A |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  | 7.5 | -15 | 152 | -6.5 | 2.4 | -3.0 | 0 | C |
| 8 | 444 | 1.4 | 37 | C | 7.5 | -11 | 159 | -6.8 | 1.9 | -2.4 | 1 | C |
| 9 | 448 | 1.4 | 48 | C | 7.5 | -9 | 148 | -6.0 | 2.9 | -2.6 | 2 | C |
| 10 | 449 | 1.1 | 51 | C | 7.5 | 12 | 139 | -5.4 | 4.9 | -0.8 | 1 | C |
| 11 | 409 | 0.9 | 102 | J | 7.4 | 11 | 146 | -5.9 | 4.1 | -0.5 | 2 | J |
| 12 | 413 | 1.0 | 81 | C | 7.5 | 14 | 153 | -6.4 | 3.7 | 0.2 | 1 | J |
| 13 | 430 | 0.8 | 59 | C | 7.6 | 11 | 157 | -6.9 | 3.3 | 0.1 | 1 | J |
| 14 | 434 | 0.6 | 95 | J | 7.4 | 14 | 152 | -5.8 | 3.5 | 0.3 | 2 | J |
| 15 | 436 | 0.7 | 109 | J | 7.5 | 13 | 152 | -6.3 | 3.7 | 0.4 | 1 | J |
| 16 | 415 | 0.9 | 64 | C | 6.8 | 16 | 137 | -4.5 | 4.5 | 0.4 | 2 | J |
| 17 | 408 | 2.0 | 63 | J | 6.8 | 10 | 136 | -4.5 | 4.5 | 0.0 | 2 | J |
| 18 | 405 | 2.7 | 61 | J | 6.5 | -18 | 150 | -4.6 | 2.3 | -2.2 | 3 | J |
| 19 | 450 | 1.7 | 66 | J | 7.0 | -39 | 172 | -5.3 | 0.1 | -4.4 | 1 | J |
| 20 | 425 | 1.8 | 115 | J | 6.5 | 16 | 134 | -3.9 | 4.2 | 1.2 | 3 | J |
| 21 | 441 | 2.6 | 87 | J | 6.4 | 7 | 141 | -4.5 | 3.7 | 0.4 | 3 | J |
| 22 | 496 | 5.2 | 73 | J | 4.9 | -3 | 135 | -3.2 | 3.2 | -0.4 | 2 | J |
| 23 | 504 | 5.5 | 64 | J | 3.7 | 20 | 175 | -2.3 | 0.2 | 0.8 | 3 | J |
| 24 | 475 | 4.9 | 61 | C | 4.2 | 31 | 233 | -1.8 | -2.4 | 2.0 | 2 | C |

### NOV. 16, 1978 320

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 481 | 5.2 | 60 | C | 4.2 | 22 | 190 | -3.4 | -0.5 | 1.4 | 1 | C |
| 2 | 483 | 5.3 | 51 | C | 4.1 | 5 | 182 | -4.0 | -0.1 | 0.3 | 1 | C |
| 3 | 469 | 6.1 | 54 | C | 4.0 | 17 | 195 | -3.5 | -0.8 | 1.2 | 1 | C |
| 4 | 483 | 5.6 | 40 | C | 4.7 | 29 | 172 | -3.9 | 0.9 | 2.0 | 1 | C |
| 5 | 486 | 4.6 | 48 | C | 4.9 | 29 | 159 | -3.9 | 2.0 | 1.8 | 1 | C |
| 6 | 487 | 4.3 | 44 | C | 4.7 | 21 | 156 | -4.0 | 2.2 | 1.0 | 1 | C |
| 7 | 490 | 4.2 | 52 | C | 4.0 | 1 | 148 | -3.4 | 2.0 | -0.7 | 0 | C |
| 8 | 489 | 4.3 | 55 | C | 4.4 | -2 | 143 | -3.4 | 2.3 | -1.2 | 1 | C |
| 9 | 479 | 2.8 | 79 | C | 5.4 | -1 | 152 | -4.7 | 2.3 | -1.2 | 0 | C |
| 10 | 474 | 1.8 | 86 | C | 5.8 | -2 | 153 | -5.1 | 2.3 | -1.4 | 0 | C |
| 11 | 449 | 1.7 | 135 | C | 5.8 | 1 | 152 | -5.2 | 2.5 | -1.1 | 0 | C |
| 12 | 477 | 5.1 | 49 | J | 4.1 | -9 | 146 | -3.1 | 1.6 | -1.4 | 2 | J |
| 13 | 437 | 5.6 | 189 | J | 4.6 | 19 | 139 | -3.2 | 3.1 | 0.2 | 1 | J |
| 14 | 471 | 2.5 | 100 | J | 5.3 | -29 | 106 | -1.1 | 2.7 | -3.5 | 3 | J |
| 15 | 416 | 1.6 | 59 | J | 5.9 | 2 | 136 | -4.2 | 3.9 | -1.2 | 1 | J |
| 16 | 370 | 1.3 | 49 | C | 6.5 | -15 | 128 | -3.9 | 4.2 | -3.0 | 1 | J |
| 17 | 384 | 0.9 | 46 | J | 6.5 | -3 | 130 | -4.1 | 4.7 | -1.5 | 1 | J |
| 18 | 386 | 1.0 | 53 | C | 6.4 | -6 | 120 | -2.9 | 4.9 | -1.6 | 2 | J |
| 19 | 404 | 0.9 | 80 | C | 6.6 | -15 | 118 | -2.9 | 5.3 | -2.4 | 1 | C |
| 20 | 437 | 6.1 | 39 | J | 4.9 | 2 | 111 | -1.7 | 4.4 | -0.3 | 2 | C |
| 21 | 432 | 5.1 | 69 | J | 3.7 | 4 | 125 | -2.1 | 3.0 | 0.1 | 1 | J |
| 22 | 425 | 4.6 | 53 | J | 3.9 | 11 | 127 | -2.2 | 3.0 | 0.6 | 1 | J |
| 23 | 429 | 4.2 | 26 | J | 4.8 | 6 | 137 | -3.5 | 3.3 | 0.4 | 0 | J |
| 24 | 427 | 4.4 | 27 | J | 4.4 | 3 | 130 | -2.8 | 3.3 | 0.1 | 1 | J |

### NOV. 17, 1978 321

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 6.4 | 34 | J | 3.6 | -11 | 138 | -2.5 | 2.2 | -0.8 | 1 | J |
| 2 | 382 | 9.1 | 21 | J | 3.4 | 1 | 122 | -1.6 | 2.6 | -0.2 | 1 | J |
| 3 | 370 | 10.1 | 19 | J | 2.9 | 64 | 72 | 0.3 | 1.3 | 2.0 | 2 | J |
| 4 | 368 | 14.0 | 16 | J | 2.0 | 35 | 263 | -0.2 | -1.2 | 1.2 | 1 | J |
| 5 | 367 | 13.9 | 14 | J | 2.4 | 28 | 298 | 0.9 | -1.3 | 1.4 | 1 | J |
| 6 | 364 | 14.1 | 12 | J | 2.9 | -20 | 316 | 1.8 | -1.9 | -0.3 | 1 | J |
| 7 | 356 | 17.6 | 11 | C | 3.2 | -53 | 3 | 1.7 | -0.7 | -2.2 | 1 | C |
| 8 | 356 | 14.7 | 11 | C | 3.8 | -62 | 56 | 1.0 | 0.0 | -3.5 | 1 | C |
| 9 | 351 | 15.4 | 14 | C | 3.8 | -43 | 87 | 0.1 | 1.4 | -3.5 | 1 | C |
| 10 | 351 | 18.3 | 12 | C | 3.6 | -45 | 82 | 0.3 | 1.1 | -3.1 | 1 | C |
| 11 | 351 | 19.1 | 12 | C | 3.1 | -41 | 86 | 0.2 | 1.1 | -2.7 | 1 | C |
| 12 | 356 | 10.0 | 20 | C | 4.7 | -28 | 107 | -1.2 | 2.6 | -3.6 | 1 | C |
| 13 | 351 | 8.6 | 22 | C | 5.1 | -2 | 105 | -1.2 | 4.1 | -1.9 | 2 | C |
| 14 | 344 | 8.8 | 23 | C | 5.0 | -30 | 142 | -3.1 | 1.4 | -3.0 | 2 | C |
| 15 | 355 | 7.3 | 25 | J | 5.1 | 12 | 106 | -1.3 | 4.7 | -0.6 | 1 | J |
| 16 | 352 | 7.5 | 28 | C | 5.3 | -5 | 104 | -1.3 | 4.7 | -1.8 | 1 | C |
| 17 | 346 | 7.5 | 25 | C | 5.6 | -5 | 114 | -2.2 | 4.8 | -1.6 | 1 | C |
| 18 | 340 | 7.9 | 22 | C | 5.7 | -17 | 127 | -3.2 | 3.9 | -2.4 | 1 | C |
| 19 | 345 | 7.6 | 38 | J | 5.7 | -2 | 122 | -3.0 | 4.7 | -0.8 | 1 | J |
| 20 | 331 | 9.3 | 20 | C | 6.0 | -28 | 165 | -4.4 | 0.9 | -2.5 | 3 | C |
| 21 | 358 | 8.6 | 47 | C | 5.7 | -20 | 130 | -2.2 | 2.6 | -1.4 | 4 | C |
| 22 | 357 | 8.6 | 65 | C | 5.2 | 0 | 96 | -0.5 | 4.8 | -0.2 | 2 | C |
| 23 | 359 | 8.0 | 62 | J | 5.7 | -2 | 88 | 0.2 | 5.6 | -0.4 | 1 | J |
| 24 | 358 | 8.0 | 71 | J | 5.9 | -2 | 90 | 0.0 | 5.9 | -0.4 | 1 | [illegible] |

### NOV. 18, 1978 322

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 353 | 8.1 | 93 | J | 5.6 | -14 | 118 | -2.5 | 4.6 | -1.6 | 1 | J |
| 2 | 353 | 7.9 | 77 | J | 5.8 | -15 | 112 | -2.0 | 4.8 | -1.9 | 1 | C |
| 3 | 352 | 8.2 | 128 | J | 4.8 | -21 | 103 | -0.9 | 3.5 | -1.9 | 2 | C |
| 4 | 345 | 7.6 | 69 | C | 4.4 | 5 | 130 | -2.4 | 2.9 | -0.2 | 2 | C |
| 5 | 337 | 8.3 | 56 | C | 5.2 | -7 | 129 | -3.2 | 3.7 | -1.5 | 1 | C |
| 6 | 325 | 8.7 | 43 | C | 5.4 | -8 | 146 | -4.4 | 2.6 | -1.6 | 1 | C |
| 7 | 325 | 8.0 | 45 | C | 5.5 | -12 | 147 | -4.5 | 2.4 | -2.1 | 0 | C |
| 8 | 313 | 8.1 | 39 | C | 5.2 | -10 | 155 | -4.6 | 1.7 | -1.7 | 0 | C |
| 9 | 313 | 8.0 | 35 | C | 5.3 | -7 | 160 | -4.8 | 1.3 | -1.3 | 1 | C |
| 10 | 311 | 8.5 | 37 | C | 5.2 | -1 | 170 | -5.0 | 0.8 | -0.4 | 1 | C |
| 11 | 307 | 10.6 | 31 | C | 4.9 | 2 | 150 | -4.2 | 2.3 | -0.9 | 1 | C |
| 12 | 313 | 12.3 | 22 | C | 4.2 | 31 | 215 | -2.8 | -0.9 | 2.7 | 1 | C |
| 13 | 309 | 11.9 | 25 | C | 4.7 | 10 | 190 | -3.7 | -0.3 | 0.8 | 3 | C |
| 14 | 309 | 10.0 | 27 | C | 5.7 | 3 | 136 | -4.1 | 3.8 | -1.1 | 0 | C |
| 15 | 305 | 10.0 | 24 | C | 6.1 | 8 | 128 | -3.6 | 4.6 | -0.7 | 1 | C |
| 16 | 319 | 9.8 | 28 | C | 6.1 | -4 | 112 | -2.2 | 5.2 | -1.9 | 1 | C |
| 17 | 332 | 8.7 | 31 | C | 6.2 | -14 | 100 | -1.0 | 5.2 | -2.7 | 1 | C |
| 18 | 339 | 8.8 | 33 | C | 6.4 | -20 | 85 | 0.6 | 5.4 | -3.2 | 1 | C |
| 19 | 338 | 9.1 | 31 | C | 6.5 | 11 | 95 | -0.5 | 6.4 | 0.3 | 1 | C |
| 20 | 328 | 9.0 | 27 | C | 6.8 | 17 | 111 | -2.3 | 6.0 | 1.4 | 1 | C |
| 21 | 326 | 9.8 | 22 | C | 7.0 | 9 | 105 | -1.7 | 6.5 | 0.7 | 1 | C |
| 22 | 317 | 11.3 | 24 | C | 7.2 | 4 | 117 | -3.1 | 6.3 | 0.3 | 1 | C |
| 23 | 322 | 12.3 | 22 | C | 7.3 | -4 | 114 | -2.9 | 6.5 | -0.6 | 1 | C |
| 24 | 338 | 17.4 | 29 | C | 8.5 | -15 | 110 | -2.4 | 6.5 | -2.0 | 4 | C |

### NOV. 19, 1978 323

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 25.5 | 32 | C | 11.7 | 4 | 82 | 1.5 | 10.8 | 0.3 | 4 | C |
| 2 | 364 | 25.6 | 31 | C | 11.2 | 10 | 93 | -0.6 | 10.2 | 1.0 | 4 | C |
| 3 | 361 | 22.8 | 39 | C | 10.5 | -25 | 97 | -0.9 | 7.4 | -4.6 | 5 | C |
| 4 | 357 | 22.0 | 64 | C | 8.3 | 68 | 180 | -2.4 | 1.1 | 5.8 | 5 | C |
| 5 | 360 | 21.4 | 64 | C | 9.8 | 29 | 76 | 1.5 | 6.6 | 1.9 | 6 | C |
| 6 | 358 | 22.1 | 69 | C | 7.7 | 24 | 60 | 2.9 | 5.6 | 1.1 | 4 | C |
| 7 | 353 | 22.6 | 60 | C | 7.9 | 60 | 105 | -0.6 | 3.2 | 2.8 | 6 | C |
| 8 | 360 | 23.0 | 53 | C | 7.8 | 62 | 79 | 0.5 | 4.5 | 3.8 | 4 | C |
| 9 | 356 | 21.9 | 47 | C | 8.3 | -24 | 96 | -0.5 | 3.6 | -4.1 | 6 | C |
| 10 | 362 | 23.3 | 45 | C | 9.2 | 22 | 68 | 2.6 | 6.8 | -0.2 | 5 | C |
| 11 | 364 | 24.4 | 46 | C | 8.9 | -4 | 56 | 4.7 | 6.1 | -3.5 | 2 | C |
| 12 | 356 | 23.7 | 41 | C | 9.7 | -38 | 80 | 1.3 | 4.2 | -8.2 | 2 | C |
| 13 | 354 | 21.0 | 52 | C | 9.9 | -4 | 95 | -0.4 | 4.1 | -2.1 | 8 | C |
| 14 | 354 | 20.9 | 49 | C | 9.9 | 37 | 102 | -1.6 | 8.9 | 2.7 | 2 | C |
| 15 | 357 | 19.0 | 46 | C | 10.2 | 19 | 98 | -1.3 | 9.9 | 0.1 | 1 | C |
| 16 | 363 | 21.5 | 47 | C | 8.2 | 32 | 74 | 1.7 | 7.1 | 2.2 | 3 | C |
| 17 | 359 | 20.8 | 55 | C | 8.4 | 2 | 70 | 2.4 | 6.7 | -1.3 | 4 | C |
| 18 | 359 | 20.8 | 37 | C | 8.5 | 56 | 59 | 2.0 | 4.3 | 5.1 | 5 | C |
| 19 | 353 | 26.2 | 31 | C | 6.5 | 28 | 244 | -2.4 | -4.5 | 3.6 | 2 | C |
| 20 | 356 | 25.6 | 30 | C | 7.4 | 17 | 234 | -4.0 | -5.3 | 2.5 | 2 | C |
| 21 | 354 | 24.5 | 25 | C | 8.5 | 48 | 249 | -2.0 | -4.9 | 6.4 | 2 | C |
| 22 | 364 | 23.8 | 25 | C | 9.9 | 47 | 257 | -1.5 | -6.2 | 7.2 | 2 | C |
| 23 | 390 | 28.8 | 35 | C | 11.7 | 55 | 258 | -1.4 | -6.4 | 9.6 | 2 | C |
| 24 | 415 | 37.6 | 38 | C | 14.9 | 70 | 238 | -2.5 | -3.8 | 13.6 | 4 | C |

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NOV. 20, 1978 324

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 41.8 | 43 | C | 16.1 | 53 | 164 | -8.9 | 3.1 | 12.0 | 4 | C |
| 2 | 416 | 33.2 | 37 | C | 19.0 | 23 | 113 | -6.2 | 14.9 | 5.5 | 7 | C |
| 3 | 434 | 16.7 | 203 | C | 15.4 | 32 | 116 | -3.0 | 6.7 | 3.5 | 13 | C |
| 4 | 434 | 12.1 | 242 | C | 12.8 | -31 | 58 | 1.4 | 2.0 | -2.0 | 12 | C |
| 5 | 432 | 14.7 | 238 | C | 10.7 | -7 | 70 | 2.8 | 7.3 | -2.8 | 6 | C |
| 6 | 424 | 15.4 | 217 | C | 8.4 | 10 | 98 | -0.8 | 6.5 | -0.8 | 5 | C |
| 7 | 430 | 14.8 | 182 | C | 9.7 | 16 | 82 | 0.5 | 4.1 | -0.3 | 8 | C |
| 8 | 425 | 14.3 | 137 | C | 11.3 | 19 | 95 | -0.9 | 10.6 | -0.6 | 3 | C |
| 9 | 441 | 15.2 | 152 | C | 9.8 | 10 | 67 | 3.3 | 7.8 | -1.8 | 4 | C |
| 10 | 430 | 14.7 | 133 | C | 10.7 | 8 | 89 | 0.2 | 9.0 | -2.7 | 5 | C |
| 11 | 426 | 12.9 | 99 | C | 11.8 | 21 | 105 | -2.8 | 11.0 | -0.7 | 2 | C |
| 12 | 433 | 13.8 | 90 | C | 11.3 | 5 | 107 | -3.3 | 10.0 | -3.5 | 2 | C |
| 13 | 397 | 14.4 | 96 | C | 11.0 | 11 | 142 | -8.3 | 6.7 | -0.7 | 2 | C |
| 14 | 405 | 14.1 | 110 | C | 10.3 | 10 | 134 | -6.6 | 7.1 | -0.9 | 2 | C |
| 15 | 437 | 14.7 | 121 | C | 10.0 | -5 | 97 | -1.0 | 7.9 | -3.5 | 4 | C |
| 16 | 438 | 15.2 | 146 | C | 10.9 | 14 | 113 | -3.8 | 9.4 | -0.1 | 3 | C |
| 17 | 457 | 22.5 | 123 | C | 12.5 | -17 | 97 | -1.3 | 9.5 | -5.4 | 6 | C |
| 18 | 436 | 23.3 | 119 | C | 13.9 | 10 | 129 | -7.0 | 8.7 | 0.5 | 8 | C |
| 19 | 451 | 20.9 | 133 | C | 14.8 | -8 | 105 | -3.4 | 12.8 | -3.5 | 5 | C |
| 20 | 467 | 18.3 | 169 | C | 41.1 | -28 | 78 | 3.0 | 13.9 | -9.0 | 7 | C |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 540 | 10.9 | 256 | C | 11.6 | -10 | 126 | -5.9 | 8.1 | -1.8 | 4 | C |
| 24 | 557 | 8.5 | 258 | C | 9.6 | 4 | 149 | -7.3 | 4.4 | 0.5 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 608 | 5.0 | 175 | C | 6.6 | 0 | 147 | -3.0 | 1.9 | -0.1 | 5 | C |
| 2 | 640 | 4.6 | 207 | C | 4.6 | 45 | 220 | -1.3 | -1.0 | 1.7 | 3 | C |
| 3 | 626 | 4.5 | 188 | C | 4.4 | 2 | 145 | -2.5 | 1.8 | -0.1 | 3 | C |
| 4 | 620 | 4.5 | 177 | C | 4.8 | 12 | 132 | -2.3 | 2.7 | 0.3 | 3 | C |
| 5 | 626 | 4.0 | 144 | C | 4.7 | 0 | 96 | -0.3 | 2.9 | -0.7 | 3 | C |
| 6 | 602 | 4.0 | 140 | C | 4.9 | 15 | 132 | -2.4 | 2.8 | 0.2 | 2 | C |
| 7 | 578 | 4.0 | 132 | C | 5.6 | 23 | 188 | -4.5 | 0.0 | 2.1 | 2 | C |
| 8 | 566 | 4.0 | 115 | C | 6.0 | 7 | 132 | -3.6 | 4.0 | -0.9 | 2 | C |
| 9 | 564 | 4.3 | 110 | C | 6.2 | 20 | 122 | -2.8 | 4.8 | -0.0 | 2 | C |
| 10 | 535 | 4.4 | 102 | C | 6.1 | 11 | 192 | -5.4 | -0.6 | 1.5 | 2 | C |
| 11 | 537 | 4.4 | 88 | C | 6.1 | 4 | 203 | -5.4 | -1.9 | 1.3 | 1 | C |
| 12 | 541 | 4.3 | 94 | C | 6.2 | 26 | 186 | -4.5 | 0.5 | 2.2 | 3 | C |
| 13 | 527 | 4.0 | 91 | C | 6.6 | 26 | 201 | -4.8 | -0.7 | 3.0 | 3 | C |
| 14 | 533 | 4.1 | 101 | C | 7.0 | 20 | 218 | -4.8 | -2.7 | 3.4 | 2 | C |
| 15 | 519 | 4.1 | 93 | C | 6.8 | -3 | 185 | -5.7 | -0.6 | -0.1 | 3 | C |
| 16 | 509 | 3.9 | 82 | C | 6.8 | -11 | 193 | -6.2 | -1.6 | -0.8 | 2 | C |
| 17 | 503 | 3.5 | 67 | C | 6.4 | 0 | 180 | -6.0 | 0.0 | 0.0 | 2 | C |
| 18 | 521 | 3.5 | 88 | C | 6.6 | 24 | 135 | -3.4 | 3.6 | 1.5 | 3 | C |
| 19 | 515 | 3.7 | 91 | C | 7.0 | 17 | 150 | -4.8 | 3.0 | 1.4 | 3 | C |
| 20 | 509 | 3.6 | 86 | C | 7.5 | 14 | 159 | -6.2 | 2.5 | 1.5 | 3 | C |
| 21 | 507 | 3.9 | 95 | C | 8.6 | -14 | 153 | -7.1 | 3.6 | -2.1 | 2 | C |
| 22 | 511 | 3.7 | 90 | C | 8.5 | -32 | 147 | -5.8 | 3.6 | -4.4 | 2 | C |
| 23 | 506 | 3.0 | 98 | C | 8.4 | -41 | 178 | -6.0 | 0.2 | -5.3 | 2 | C |
| 24 | 515 | 3.0 | 85 | C | 7.7 | -58 | 202 | -3.5 | -1.5 | -5.9 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 502 | 3.5 | 68 | C | 7.2 | -14 | 151 | -5.5 | 3.0 | -1.7 | 2 | C |
| 2 | 516 | 3.7 | 99 | C | 7.6 | 0 | 141 | -5.5 | 4.4 | -0.3 | 2 | C |
| 3 | 496 | 3.9 | 140 | A | 7.6 | 23 | 159 | -6.5 | 2.8 | 2.6 | 1 | C |
| 4 | 497 | 3.7 | 123 | A | | | | | | | | |
| 5 | 507 | 4.0 | 78 | C | 8.8 | -13 | 138 | -5.9 | 4.7 | -3.0 | 3 | C |
| 6 | 519 | 3.8 | 83 | C | 9.1 | -14 | 120 | -4.3 | 6.7 | -4.2 | 1 | C |
| 7 | 519 | 2.7 | 87 | C | 9.4 | -6 | 129 | -5.8 | 6.5 | -3.3 | 1 | C |
| 8 | 517 | 3.0 | 64 | C | 9.5 | -11 | 127 | -5.5 | 6.1 | -4.3 | 1 | C |
| 9 | 519 | 3.2 | 117 | C | 9.6 | 4 | 137 | -7.0 | 6.1 | -1.9 | 1 | C |
| 10 | 576 | 5.2 | 193 | C | 8.6 | 24 | 123 | -3.1 | 5.4 | 0.4 | 5 | C |
| 11 | 583 | 5.8 | 223 | C | 7.9 | -38 | 118 | -2.0 | 2.1 | -4.7 | 5 | C |
| 12 | 561 | 5.8 | 202 | C | 7.9 | -26 | 146 | -4.0 | 1.5 | -3.2 | 5 | C |
| 13 | 572 | 5.5 | 179 | C | 8.8 | -24 | 127 | -4.2 | 4.1 | -5.0 | 4 | C |
| 14 | 586 | 5.2 | 202 | C | 8.0 | -23 | 138 | -4.2 | 2.7 | -3.5 | 4 | C |
| 15 | 594 | 4.8 | 186 | C | 8.0 | 24 | 140 | -5.1 | 5.0 | 1.5 | 2 | C |
| 16 | 673 | 8.1 | 514 | A | | | | | | | | |
| 17 | 686 | 7.0 | 329 | C | 10.3 | 7 | 90 | 0.0 | 6.8 | -0.6 | 7 | C |
| 18 | 689 | 6.1 | 327 | C | 8.0 | 28 | 105 | -1.5 | 5.9 | 2.1 | 4 | C |
| 19 | 675 | 5.3 | 259 | C | 7.5 | 60 | 205 | -3.0 | -0.8 | 5.7 | 3 | C |
| 20 | 679 | 4.1 | 216 | C | 7.7 | 56 | 150 | -3.5 | 2.4 | 5.7 | 2 | C |
| 21 | 687 | 3.7 | 228 | C | 7.3 | 45 | 129 | -3.0 | 3.8 | 4.6 | 3 | C |
| 22 | 673 | 4.3 | 295 | L | 7.5 | 50 | 131 | -2.8 | 3.2 | 5.0 | 3 | C |
| 23 | 664 | 4.4 | 229 | J | 6.9 | 10 | 176 | -6.5 | 0.5 | 1.1 | 2 | J |
| 24 | 660 | 4.3 | 200 | J | 7.6 | 15 | 145 | -5.5 | 3.9 | 1.8 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 644 | 3.6 | 171 | J | 7.0 | 17 | 148 | -5.4 | 3.4 | 1.9 | 2 | J |
| 2 | 635 | 3.6 | 166 | J | 6.8 | 34 | 145 | -4.6 | 3.4 | 3.6 | 1 | J |
| 3 | 619 | 4.1 | 154 | J | 6.2 | 48 | 135 | -2.8 | 3.2 | 4.1 | 2 | J |
| 4 | 611 | 4.2 | 136 | J | 6.1 | 35 | 132 | -3.2 | 4.1 | 2.8 | 1 | J |
| 5 | 602 | 4.4 | 131 | J | 6.2 | 34 | 145 | -4.1 | 3.5 | 2.7 | 1 | J |
| 6 | 596 | 4.3 | 118 | J | 6.0 | 31 | 154 | -4.5 | 2.9 | 2.3 | 1 | J |
| 7 | 585 | 4.2 | 124 | J | 5.7 | 31 | 157 | -4.3 | 2.7 | 2.1 | 1 | J |
| 8 | 583 | 3.8 | 145 | J | 5.5 | 14 | 171 | -5.2 | 1.2 | 0.9 | 1 | J |
| 9 | 567 | 3.5 | 108 | L | 5.5 | 3 | 169 | -5.1 | 1.0 | -0.1 | 2 | J |
| 10 | 558 | 3.6 | 110 | L | 5.1 | 3 | 173 | -4.6 | 0.6 | -0.0 | 2 | J |
| 11 | 548 | 3.2 | 107 | J | 5.0 | -3 | 172 | -4.7 | 0.5 | -0.5 | 2 | J |
| 12 | 547 | 3.0 | 83 | J | 5.0 | -13 | 170 | -4.6 | 0.3 | -1.3 | 1 | J |
| 13 | 553 | 2.7 | 72 | J | 5.3 | -34 | 128 | -1.9 | 1.5 | -2.9 | 4 | J |
| 14 | 556 | 4.1 | 100 | J | 6.0 | 10 | 76 | 1.3 | 5.2 | -0.9 | 3 | J |
| 15 | 547 | 5.0 | 106 | J | 5.7 | 35 | 67 | 1.6 | 4.5 | 1.6 | 3 | J |
| 16 | 533 | 4.6 | 99 | J | 5.6 | 1 | 96 | -0.3 | 2.3 | -0.6 | 5 | J |
| 17 | 494 | 4.2 | 87 | J | 5.5 | 4 | 181 | -5.1 | -0.0 | 0.4 | 2 | J |
| 18 | 488 | 3.6 | 72 | J | 5.0 | -12 | 180 | -4.7 | -0.1 | -1.0 | 1 | J |
| 19 | 494 | 3.5 | 90 | J | 5.3 | -24 | 206 | -4.2 | -2.2 | -1.9 | 2 | J |
| 20 | 499 | 3.2 | 73 | C | 4.6 | -6 | 170 | -4.3 | 0.7 | -0.5 | 1 | J |
| 21 | 485 | 3.2 | 91 | J | 4.9 | -33 | 161 | -3.6 | 1.2 | -2.5 | 2 | J |
| 22 | 487 | 3.3 | 92 | J | 5.0 | -26 | 146 | -3.4 | 2.3 | -2.0 | 2 | J |
| 23 | 491 | 2.9 | 87 | J | 4.8 | -33 | 171 | -3.6 | 0.6 | -2.4 | 2 | J |
| 24 | 480 | 2.8 | 90 | J | 4.4 | -3 | 162 | -4.0 | 1.3 | -0.2 | 1 | J |

NOV. 24, 1978 328

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 472 | 3.3 | 142 | J | 4.3 | -15 | 169 | -3.9 | 0.7 | -1.1 | 1 | J |
| 2 | 482 | 4.1 | 159 | J | 4.9 | -10 | 143 | -3.7 | 2.7 | -0.9 | 1 | J |
| 3 | 473 | 3.6 | 115 | J | 4.4 | -12 | 152 | -3.6 | 1.8 | -1.0 | 1 | J |
| 4 | 483 | 3.8 | 96 | J | 4.1 | 2 | 136 | -2.7 | 2.6 | -0.2 | 2 | J |
| 5 | 480 | 4.0 | 109 | J | 3.8 | 3 | 127 | -2.1 | 2.8 | -0.4 | 2 | J |
| 6 | 472 | 4.0 | 134 | J | 3.2 | -17 | 160 | -2.6 | 0.7 | -1.1 | 1 | J |
| 7 | 461 | 3.9 | 115 | J | 3.1 | 10 | 156 | -2.2 | 1.1 | 0.1 | 2 | J |
| 8 | 459 | 3.8 | 78 | J | 3.8 | -1 | 139 | -2.6 | 2.1 | -0.9 | 1 | J |
| 9 | 450 | 3.0 | 80 | L | 3.9 | -25 | 150 | -2.8 | 0.9 | -2.0 | 1 | J |
| 10 | 430 | 3.9 | 62 | C | 3.3 | -14 | 141 | -2.2 | 1.3 | -1.4 | 1 | J |
| 11 | 432 | 5.6 | 75 | C | 3.5 | 7 | 147 | -2.3 | 1.5 | -0.3 | 2 | C |
| 12 | 414 | 5.7 | 66 | C | 3.8 | -34 | 174 | -2.9 | -0.5 | -1.9 | 1 | C |
| 13 | 430 | 7.0 | 73 | C | 4.7 | -78 | 187 | -1.0 | -1.7 | -4.0 | 1 | C |
| 14 | 424 | 6.8 | 56 | C | 6.5 | -70 | 156 | -1.8 | -1.0 | -5.4 | 2 | C |
| 15 | 457 | 9.1 | 36 | J | 7.6 | -68 | 291 | 1.0 | -4.5 | -5.8 | 2 | J |
| 16 | 458 | 9.6 | 29 | J | 8.1 | -81 | 334 | 1.0 | -2.3 | -6.9 | 4 | J |
| 17 | 455 | 8.7 | 53 | J | 7.3 | -40 | 98 | -0.7 | 4.3 | -5.4 | 2 | J |
| 18 | 454 | 11.9 | 76 | J | 5.3 | -80 | 116 | -0.4 | 0.1 | -4.9 | 2 | J |
| 19 | 450 | 12.7 | 73 | J | 5.7 | -71 | 135 | -1.3 | 0.8 | -5.4 | 1 | J |
| 20 | 433 | 10.9 | 30 | C | 8.2 | -61 | 203 | -3.1 | -1.7 | -6.0 | 4 | C |
| 21 | 444 | 12.7 | 36 | J | 8.5 | -27 | 84 | 0.7 | 6.2 | -3.3 | 5 | J |
| 22 | 450 | 7.7 | 30 | J | 9.4 | 22 | 66 | 3.5 | 7.8 | 3.5 | 2 | J |
| 23 | 433 | 4.5 | 27 | J | 9.6 | -4 | 63 | 4.3 | 8.4 | -0.5 | 2 | J |
| 24 | 438 | 3.9 | 25 | J | 9.6 | -9 | 63 | 4.2 | 8.3 | -1.4 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 433 | 3.4 | 26 | J | 9.5 | -19 | 64 | 3.9 | 7.9 | -3.1 | 1 | J |
| 2 | 432 | 3.3 | 32 | J | 9.3 | -19 | 58 | 4.6 | 7.2 | -3.2 | 2 | J |
| 3 | 423 | 3.3 | 34 | J | 9.3 | -26 | 61 | 4.0 | 6.0 | -4.6 | 2 | J |
| 4 | 440 | 2.8 | 21 | J | 9.7 | -35 | 61 | 3.7 | 5.5 | -6.3 | 2 | J |
| 5 | 437 | 3.3 | 22 | J | 9.8 | -27 | 56 | 4.8 | 6.1 | -5.7 | 1 | J |
| 6 | 423 | 4.7 | 18 | C | 9.8 | -55 | 70 | 1.3 | 2.0 | -6.0 | 7 | J |
| 7 | 426 | 3.8 | 7 | L | 9.8 | -52 | 49 | 3.6 | 1.7 | -7.9 | 4 | J |
| 8 | 424 | 6.3 | 30 | J | 9.6 | -48 | 42 | 4.7 | 1.5 | -8.0 | 2 | J |
| 9 | 424 | 6.8 | 29 | J | 9.7 | -39 | 48 | 5.1 | 2.9 | -7.7 | 1 | C |
| 10 | 424 | 9.8 | 37 | J | 9.1 | -30 | 51 | 4.9 | 3.8 | -6.5 | 2 | J |
| 11 | 430 | 9.8 | 37 | J | 8.7 | -43 | 26 | 5.5 | 0.2 | -6.3 | 3 | J |
| 12 | 425 | 8.7 | 84 | J | 7.5 | -62 | 12 | 3.3 | -1.8 | -6.1 | 2 | J |
| 13 | 454 | 13.7 | 108 | J | 10.7 | -60 | 47 | 3.6 | 0.3 | -9.9 | 3 | J |
| 14 | 476 | 18.0 | 73 | J | 14.5 | -64 | 66 | 2.5 | 1.2 | -14.0 | 2 | J |
| 15 | 476 | 21.8 | 70 | J | 14.8 | -60 | 66 | 2.9 | 2.7 | -13.9 | 3 | J |
| 16 | 469 | 24.1 | 82 | J | 13.8 | -54 | 97 | -1.0 | 5.0 | -12.3 | 4 | J |
| 17 | 477 | 16.2 | 43 | J | 17.8 | -49 | 102 | -2.4 | 8.6 | -15.3 | 1 | J |
| 18 | 483 | 22.4 | 63 | J | 16.6 | -57 | 103 | -2.0 | 6.7 | -14.6 | 4 | J |
| 19 | 491 | 10.3 | 325 | J | 14.9 | 19 | 92 | -0.4 | 12.1 | 3.0 | 9 | J |
| 20 | 503 | 7.9 | 401 | J | 14.9 | 17 | 86 | 1.0 | 14.0 | 3.6 | 3 | J |
| 21 | 517 | 9.5 | 382 | J | 14.0 | 3 | 76 | 3.3 | 13.1 | 0.6 | 3 | J |
| 22 | 498 | 8.8 | 323 | J | 15.1 | -10 | 84 | 1.5 | 13.8 | -2.3 | 5 | J |
| 23 | 495 | 10.9 | 398 | J | 10.8 | 7 | 107 | -2.9 | 9.4 | 1.4 | 5 | J |
| 24 | 494 | 9.9 | 436 | J | 12.4 | 17 | 111 | -3.7 | 9.6 | 3.3 | 6 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 525 | 9.2 | 447 | J | 12.7 | -13 | 83 | 1.4 | 11.1 | -2.6 | 5 | J |
| 2 | 551 | 7.6 | 429 | J | 12.9 | 3 | 86 | 0.8 | 11.5 | 0.2 | 6 | J |
| 3 | 566 | 5.7 | 369 | J | 8.7 | 9 | 115 | -3.3 | 7.2 | 0.7 | 4 | J |
| 4 | 596 | 5.1 | 254 | J | 8.0 | 26 | 138 | -5.1 | 5.0 | 2.7 | 2 | J |
| 5 | 607 | 5.4 | 189 | J | 8.3 | -48 | 156 | -4.3 | 0.9 | -5.5 | 4 | J |
| 6 | 604 | 4.1 | 159 | J | 7.3 | -27 | 128 | -3.4 | 3.5 | -3.8 | 4 | J |
| 7 | 612 | 4.7 | 294 | J | 6.7 | -38 | 124 | -2.5 | 2.5 | -4.5 | 3 | J |
| 8 | 596 | 5.0 | 288 | J | 6.6 | -17 | 142 | -3.8 | 2.3 | -2.4 | 4 | J |
| 9 | 591 | 4.7 | 230 | J | 6.8 | -11 | 136 | -3.5 | 2.8 | -2.2 | 5 | J |
| 10 | 627 | 5.5 | 200 | J | 6.1 | -27 | 232 | -2.9 | -4.4 | -0.8 | 3 | J |
| 11 | 620 | 5.7 | 186 | J | 6.1 | 17 | 136 | -3.8 | 4.0 | 0.1 | 3 | J |
| 12 | 616 | 5.8 | 170 | J | 6.7 | 36 | 157 | -4.1 | 2.8 | 2.3 | 4 | J |
| 13 | 620 | 4.9 | 158 | J | 5.8 | 72 | 145 | -1.4 | 2.8 | 4.5 | 2 | J |
| 14 | 595 | 4.5 | 157 | J | 6.0 | -4 | 138 | -2.6 | 2.1 | -1.0 | 5 | J |
| 15 | 592 | 4.0 | 134 | J | 6.5 | -50 | 178 | -3.9 | -1.2 | -4.4 | 2 | J |
| 16 | 580 | 4.5 | 175 | J | 6.8 | -35 | 164 | -5.0 | 0.6 | -3.9 | 2 | J |
| 17 | 607 | 4.7 | 219 | J | 6.8 | -11 | 113 | -2.3 | 5.2 | -2.1 | 3 | J |
| 18 | 579 | 4.0 | 101 | J | 6.3 | -1 | 125 | -3.1 | 4.4 | -0.7 | 3 | J |
| 19 | 587 | 4.0 | 117 | J | 6.0 | 0 | 136 | -3.2 | 3.1 | -0.3 | 4 | J |
| 20 | 611 | 4.8 | 200 | J | 4.7 | -58 | 200 | -2.2 | -0.9 | -3.7 | 2 | J |
| 21 | 607 | 4.4 | 160 | C | 4.5 | -20 | 223 | -2.4 | -2.3 | -1.2 | 2 | C |
| 22 | 583 | 4.2 | 226 | J | 4.9 | 10 | 188 | -3.9 | -0.6 | 0.7 | 3 | J |
| 23 | 605 | 3.7 | 163 | J | 4.6 | 47 | 166 | -2.1 | 0.4 | 2.3 | 3 | J |
| 24 | 621 | 3.1 | 154 | J | 4.5 | -8 | 101 | -0.8 | 3.9 | -0.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 624 | 3.0 | 147 | J | 5.0 | 9 | 99 | -0.7 | 4.2 | 0.7 | 3 | J |
| 2 | 618 | 2.9 | 189 | J | 4.8 | 4 | 131 | -2.6 | 2.9 | 0.2 | 3 | J |
| 3 | 591 | 2.7 | 165 | C | 4.4 | -25 | 85 | 0.3 | 3.6 | -2.0 | 2 | J |
| 4 | 607 | 2.5 | 136 | J | 4.1 | -11 | 111 | -1.1 | 2.7 | -0.9 | 3 | J |
| 5 | 609 | 2.5 | 172 | C | 4.2 | 11 | 155 | -3.0 | 1.5 | 0.4 | 2 | J |
| 6 | 576 | 2.3 | 89 | J | 4.3 | -38 | 182 | -3.2 | -0.7 | -2.4 | 1 | J |
| 7 | 632 | 2.3 | 97 | J | 4.5 | 21 | 130 | -1.6 | 2.1 | 0.3 | 4 | J |
| 8 | 545 | 2.6 | 69 | J | 4.6 | 21 | 150 | -3.2 | 2.2 | 0.7 | 2 | J |
| 9 | 562 | 2.7 | 83 | J | 4.4 | -43 | 183 | -2.5 | -1.0 | -2.1 | 3 | J |
| 10 | 545 | 2.5 | 72 | J | 4.3 | -15 | 150 | -3.2 | 1.3 | -1.6 | 2 | J |
| 11 | 565 | 2.4 | 78 | J | 4.3 | 24 | 132 | -1.8 | 2.3 | 0.3 | 3 | J |
| 12 | 582 | 2.8 | 106 | J | 4.4 | -17 | 104 | -0.9 | 3.1 | -2.5 | 2 | J |
| 13 | 572 | 2.8 | 93 | J | 4.4 | -21 | 117 | -1.6 | 2.5 | -2.4 | 2 | J |
| 14 | 568 | 2.6 | 91 | J | 4.4 | -23 | 133 | -1.9 | 1.6 | -1.8 | 3 | J |
| 15 | 582 | 2.6 | 102 | J | 4.1 | -64 | 167 | -1.3 | -0.5 | -2.7 | 3 | J |
| 16 | 561 | 3.4 | 143 | L | 3.7 | -7 | 136 | -2.4 | 2.1 | -0.9 | 2 | J |
| 17 | 573 | 2.8 | 94 | J | 4.0 | 14 | 124 | -1.5 | 2.3 | 0.3 | 3 | J |
| 18 | 567 | 2.8 | 88 | J | 3.5 | -42 | 163 | -2.3 | 0.4 | -2.2 | 1 | J |
| 19 | 554 | 2.9 | 160 | L | 3.5 | -39 | 171 | -2.6 | 0.3 | -2.2 | 0 | J |
| 20 | 558 | 3.1 | 78 | J | 3.6 | 14 | 137 | -2.3 | 2.1 | 0.7 | 2 | J |
| 21 | 557 | 3.2 | 84 | J | 3.6 | 14 | 139 | -2.6 | 2.2 | 0.9 | 1 | J |
| 22 | 549 | 4.0 | 82 | J | 4.2 | -14 | 169 | -3.6 | 0.7 | -0.9 | 2 | J |
| 23 | 546 | 3.4 | 120 | J | 3.8 | 20 | 151 | -3.0 | 1.6 | 1.3 | 1 | J |
| 24 | 528 | 3.2 | 92 | C | 3.2 | 25 | 150 | -2.4 | 1.4 | 1.4 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 516 | 2.9 | 65 | C | 3.2 | -4 | 166 | -2.9 | 0.7 | -0.2 | 1 | C |
| 2 | 511 | 3.3 | 71 | C | 3.0 | -38 | 201 | -2.0 | -0.8 | -1.7 | 1 | C |
| 3 | 509 | 3.5 | 81 | C | 3.2 | -15 | 234 | -2.4 | -1.1 | -0.6 | 1 | C |
| 4 | 500 | 3.5 | 64 | C | 3.3 | -27 | 197 | -2.6 | -1.0 | -1.3 | 1 | C |
| 5 | 493 | 3.5 | 66 | C | 3.1 | -6 | 186 | -2.9 | -0.4 | -0.3 | 1 | C |
| 6 | 492 | 3.5 | 63 | C | 3.1 | 2 | 169 | -2.9 | 0.6 | -0.1 | 1 | C |
| 7 | 487 | 3.2 | 59 | C | 3.5 | 23 | 163 | -3.0 | 1.3 | 1.0 | 1 | C |
| 8 | 485 | 3.2 | 67 | C | 3.1 | -6 | 167 | -2.6 | 0.5 | -0.5 | 2 | J |
| 9 | 476 | 3.9 | 131 | J | 3.7 | 2 | 166 | -3.5 | 0.9 | -0.2 | 1 | J |
| 10 | 482 | 3.6 | 121 | J | 3.6 | 7 | 166 | -3.4 | 0.9 | 0.1 | 1 | J |
| 11 | 472 | 3.9 | 128 | J | 3.8 | 2 | 166 | -3.6 | 0.9 | -0.2 | 1 | J |
| 12 | 463 | 4.0 | 66 | J | 4.3 | -7 | 161 | -4.0 | 1.1 | -1.0 | 1 | J |
| 13 | 464 | 3.5 | 73 | J | 3.7 | 13 | 140 | -2.5 | 2.2 | -0.0 | 2 | J |
| 14 | 470 | 3.7 | 46 | J | 3.6 | 17 | 113 | -1.2 | 3.0 | 0.0 | 2 | J |
| 15 | 466 | 3.8 | 47 | J | 3.6 | -4 | 135 | -2.1 | 2.0 | -0.8 | 2 | J |
| 16 | 446 | 3.5 | 52 | C | 3.8 | -15 | 163 | -3.4 | 0.8 | -1.2 | 1 | C |
| 17 | 439 | 3.6 | 55 | C | 4.0 | 4 | 164 | -3.8 | 1.1 | 0.1 | 0 | C |
| 18 | 425 | 4.7 | 79 | J | 3.8 | -5 | 164 | -3.6 | 1.0 | -0.5 | 0 | J |
| 19 | 423 | 4.9 | 71 | J | 3.9 | -10 | 162 | -3.7 | 1.1 | -0.8 | 1 | J |
| 20 | 429 | 4.0 | 43 | C | 4.1 | -6 | 176 | -4.0 | 0.3 | -0.5 | 0 | C |
| 21 | 424 | 4.2 | 38 | C | 4.1 | -4 | 174 | -4.0 | 0.5 | -0.3 | 0 | C |
| 22 | 415 | 4.4 | 37 | J | 4.5 | -6 | 170 | -4.3 | 0.8 | -0.4 | 1 | J |
| 23 | 408 | 6.0 | 49 | J | 4.4 | -9 | 161 | -4.0 | 1.4 | -0.6 | 1 | J |
| 24 | 406 | 4.9 | 40 | J | 4.3 | -13 | 168 | -3.8 | 0.8 | -0.9 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 356 | 6.9 | 30 | J | 3.3 | -9 | 55 | 1.7 | 2.4 | -0.4 | 1 | J |
| 2 | 351 | 7.3 | 25 | J | 3.2 | -5 | 76 | 0.7 | 2.7 | -0.3 | 1 | J |
| 3 | 350 | 7.3 | 25 | J | 3.4 | -6 | 70 | 1.1 | 2.9 | -0.5 | 1 | J |
| 4 | 354 | 7.2 | 25 | J | 3.7 | -21 | 51 | 1.9 | 2.2 | -1.4 | 2 | J |
| 5 | 343 | 8.3 | 23 | C | 3.0 | 7 | 70 | 1.0 | 2.6 | -0.1 | 1 | C |
| 6 | 338 | 7.6 | 29 | C | 3.1 | -15 | 163 | -2.8 | 0.6 | -0.9 | 1 | C |
| 7 | 337 | 9.2 | 29 | C | 2.8 | 22 | 127 | -1.3 | 2.0 | 0.4 | 1 | C |
| 8 | 339 | 9.6 | 26 | C | 3.8 | 13 | 102 | -0.7 | 3.4 | -0.3 | 2 | C |
| 9 | 346 | 8.7 | 25 | J | 4.2 | 1 | 62 | 2.0 | 3.5 | -1.2 | 0 | J |
| 10 | 341 | 9.4 | 25 | J | 3.6 | -10 | 91 | -0.1 | 2.7 | -1.7 | 2 | J |
| 11 | 338 | 10.6 | 22 | J | 3.4 | 1 | 111 | -1.1 | 2.8 | -1.0 | 1 | J |
| 12 | 335 | 11.4 | 16 | J | 3.6 | 4 | 118 | -1.6 | 2.9 | -0.8 | 1 | J |
| 13 | 335 | 12.3 | 16 | J | 3.7 | -1 | 86 | 0.2 | 3.2 | -1.2 | 1 | J |
| 14 | 331 | 12.5 | 18 | J | 4.0 | -4 | 65 | 1.6 | 3.3 | -1.3 | 1 | J |
| 15 | 330 | 12.1 | 17 | J | 4.2 | -5 | 72 | 1.2 | 3.6 | -1.3 | 1 | J |
| 16 | 323 | 12.4 | 16 | J | 4.4 | -23 | 51 | 2.3 | 2.5 | -2.1 | 2 | J |
| 17 | 328 | 12.8 | 17 | J | 4.6 | 6 | 50 | 2.8 | 3.4 | -0.1 | 1 | J |
| 18 | 323 | 13.1 | 17 | J | 4.7 | -4 | 48 | 2.9 | 3.2 | -0.6 | 2 | J |
| 19 | 319 | 14.9 | 13 | C | 4.5 | -15 | 37 | 3.4 | 2.5 | -1.3 | 1 | C |
| 20 | 314 | 13.1 | 23 | J | 4.7 | 9 | 114 | -1.6 | 3.5 | 0.6 | 3 | J |
| 21 | 315 | 15.0 | 22 | J | 5.4 | -1 | 116 | -2.2 | 4.6 | 0.0 | 2 | J |
| 22 | 319 | 17.5 | 18 | J | 6.4 | -31 | 71 | 1.7 | 5.0 | -2.9 | 2 | J |
| 23 | 323 | 18.5 | 20 | J | 6.8 | -23 | 79 | 1.1 | 5.8 | -2.1 | 2 | J |
| 24 | 310 | 19.5 | 23 | J | 6.9 | -20 | 77 | 1.3 | 6.0 | -1.9 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 323 | 13.3 | 20 | C | 8.4 | 10 | 98 | -1.2 | 8.0 | 1.8 | 1 | C |
| 2 | 319 | 15.6 | 12 | C | 8.8 | 14 | 104 | -2.0 | 8.2 | 2.2 | 1 | C |
| 3 | 315 | 15.4 | 12 | C | 9.1 | 19 | 113 | -3.4 | 7.9 | 2.6 | 2 | C |
| 4 | 343 | 12.7 | 37 | C | 7.2 | 31 | 133 | -3.5 | 3.9 | 2.7 | 4 | C |
| 5 | 350 | 12.0 | 47 | C | 5.6 | 9 | 125 | -2.9 | 4.2 | 0.2 | 2 | C |
| 6 | 355 | 11.5 | 39 | C | 5.4 | 0 | 138 | -4.0 | 3.5 | -0.8 | 1 | C |
| 7 | 348 | 11.1 | 41 | C | 5.5 | 11 | 144 | -4.3 | 3.2 | 0.1 | 1 | C |
| 8 | 345 | 11.2 | 42 | C | 5.8 | 16 | 152 | -4.9 | 3.0 | 0.7 | 1 | C |
| 9 | 340 | 11.3 | 38 | C | 5.6 | 17 | 141 | -4.2 | 3.7 | 0.4 | 1 | C |
| 10 | 338 | 11.0 | 39 | C | 6.1 | 15 | 141 | -4.5 | 4.0 | 0.2 | 0 | C |
| 11 | 323 | 14.3 | 63 | A | 5.6 | 21 | 147 | -4.4 | 3.4 | 0.9 | 0 | C |
| 12 | 321 | 17.2 | 19 | C | 5.5 | 28 | 144 | -3.9 | 3.5 | 1.4 | 1 | C |
| 13 | 307 | 20.0 | 18 | C | 4.3 | 18 | 139 | -2.5 | 2.4 | 0.3 | 3 | C |
| 14 | 301 | 25.5 | 14 | C | 2.6 | 36 | 149 | -1.7 | 1.4 | 1.1 | 1 | C |
| 15 | 298 | 26.3 | 12 | C | 3.0 | 9 | 109 | -0.9 | 2.6 | -0.2 | 1 | C |
| 16 | 298 | 26.4 | 10 | C | 2.7 | 26 | 125 | -1.4 | 2.1 | 0.7 | 1 | C |
| 17 | 296 | 27.0 | 9 | C | 2.6 | 25 | 125 | -1.3 | 2.0 | 0.8 | 1 | C |
| 18 | 297 | 25.4 | 11 | C | 3.1 | 40 | 137 | -1.5 | 1.6 | 1.6 | 1 | C |
| 19 | 298 | 22.3 | 13 | C | 3.7 | 72 | 293 | 0.4 | -0.8 | 3.3 | 1 | C |
| 20 | 300 | 16.8 | 25 | C | 5.7 | 22 | 311 | 3.2 | -3.7 | 2.0 | 2 | C |
| 21 | 303 | 17.6 | 27 | C | 6.2 | 32 | 293 | 2.0 | -4.8 | 3.0 | 1 | C |
| 22 | 307 | 17.0 | 28 | C | 6.8 | 31 | 294 | 2.2 | -5.0 | 2.8 | 2 | C |
| 23 | 307 | 15.6 | 31 | C | 7.1 | -23 | 288 | 1.9 | -5.8 | -3.1 | 2 | C |
| 24 | 317 | 15.3 | 40 | C | 6.1 | -23 | 283 | 1.0 | -4.2 | -2.2 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 307 | 29.7 | 22 | C | 7.3 | 29 | 357 | 5.9 | -0.5 | 3.2 | 3 | C |
| 2 | 306 | 38.9 | 20 | C | 5.9 | 19 | 336 | 3.6 | -1.7 | 1.3 | 4 | C |
| 3 | 306 | 43.0 | 19 | C | 7.1 | 47 | 73 | 1.2 | 4.1 | 4.5 | 4 | C |
| 4 | 312 | 45.5 | 23 | C | 9.5 | 18 | 296 | 1.6 | -3.1 | 1.4 | 9 | C |
| 5 | 325 | 23.2 | 43 | C | 12.2 | 20 | 304 | 4.9 | -6.9 | 4.2 | 8 | C |
| 6 | 342 | 12.4 | 55 | C | 15.2 | 24 | 299 | 6.6 | -10.5 | 8.3 | 3 | C |
| 7 | 345 | 13.8 | 66 | C | 15.1 | -4 | 298 | 6.5 | -12.2 | 2.2 | 5 | C |
| 8 | 342 | 16.3 | 93 | C | 13.4 | -1 | 295 | 5.2 | -10.6 | 3.1 | 3 | C |
| 9 | 350 | 18.1 | 98 | C | 11.7 | 42 | 304 | 4.5 | -3.9 | 8.8 | 3 | C |
| 10 | 350 | 19.1 | 105 | C | 10.8 | 10 | 296 | 2.7 | -4.9 | 2.9 | 8 | C |
| 11 | 371 | 18.6 | 114 | C | 11.6 | -83 | 220 | -1.0 | -4.3 | -9.4 | 5 | C |
| 12 | 365 | 17.8 | 112 | C | 10.4 | -2 | 277 | 1.0 | -7.0 | 2.2 | 6 | C |
| 13 | 389 | 13.0 | 127 | C | 12.1 | -24 | 275 | 0.9 | -10.4 | -1.2 | 5 | C |
| 14 | 410 | 10.4 | 152 | C | 13.1 | 19 | 297 | 4.8 | -8.0 | 5.9 | 6 | C |
| 15 | 422 | 9.0 | 144 | C | 13.0 | 15 | 292 | 3.8 | -8.4 | 4.7 | 7 | C |
| 16 | 437 | 8.4 | 179 | C | 11.3 | -20 | 309 | 5.4 | -7.2 | -1.9 | 6 | C |
| 17 | 456 | 6.0 | 166 | C | 12.4 | -14 | 305 | 6.6 | -9.9 | -1.6 | 3 | C |
| 18 | 490 | 5.9 | 197 | C | 11.2 | 1 | 300 | 4.8 | -8.4 | 0.9 | 4 | C |
| 19 | 482 | 6.2 | 171 | C | 10.1 | -10 | 300 | 4.6 | -8.0 | -1.4 | 3 | C |
| 20 | 477 | 6.3 | 157 | C | 8.3 | -8 | 338 | 6.5 | -2.6 | -1.0 | 4 | C |
| 21 | 468 | 5.7 | 122 | C | 7.8 | 1 | 352 | 7.3 | -1.0 | 0.0 | 2 | C |
| 22 | 486 | 6.2 | 155 | C | 7.2 | -15 | 329 | 5.1 | -3.0 | -1.8 | 3 | C |
| 23 | 478 | 6.3 | 134 | C | 6.8 | -4 | 341 | 5.7 | -1.9 | -0.6 | 3 | C |
| 24 | 482 | 6.4 | 130 | C | 7.0 | -9 | 339 | 5.1 | -1.8 | -1.1 | 4 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 410 | 4.7 | 35 | J | 4.5 | -9 | 167 | -4.3 | 1.0 | -0.7 | 1 | J |
| 402 | 4.5 | 37 | C | 4.4 | -2 | 165 | -4.2 | 1.1 | -0.2 | 1 | J |
| 397 | 4.7 | 35 | C | 3.9 | -2 | 185 | -3.6 | -0.3 | -0.1 | 1 | J |
| 392 | 4.8 | 32 | C | 3.9 | 4 | 200 | -3.4 | -1.2 | 0.4 | 2 | J |
| 405 | 4.1 | 32 | J | 4.2 | 7 | 202 | -3.7 | -1.4 | 0.7 | 1 | J |
| 406 | 4.4 | 37 | J | 4.1 | 15 | 199 | -3.6 | -1.0 | 1.3 | 1 | J |
| 399 | 3.5 | 55 | L | 3.7 | 14 | 170 | -3.3 | 0.8 | 0.6 | 1 | J |
| 392 | 4.7 | 64 | J | 3.5 | 17 | 150 | -2.8 | 1.9 | 0.4 | 1 | J |
| 392 | 5.1 | 62 | J | 3.6 | 1 | 139 | -2.6 | 2.1 | -0.7 | 1 | J |
| 381 | 5.0 | 83 | J | 3.9 | 6 | 153 | -3.5 | 1.8 | -0.3 | 0 | J |
| 378 | 6.2 | 33 | J | 3.2 | -36 | 137 | -1.8 | 0.9 | -2.3 | 1 | J |
| 375 | 6.3 | 30 | J | 3.5 | -29 | 130 | -1.8 | 1.4 | -2.2 | 1 | J |
| 365 | 6.2 | 49 | J | 3.6 | -8 | 135 | -2.1 | 1.8 | -1.1 | 2 | J |
| 376 | 5.4 | 26 | J | 4.2 | -26 | 191 | -3.7 | -1.2 | -1.5 | 0 | J |
| 372 | 6.3 | 26 | J | 3.7 | -23 | 177 | -3.4 | -0.2 | -1.4 | 1 | J |
| 374 | 6.4 | 26 | J | 4.2 | -20 | 174 | -3.8 | 0.1 | -1.5 | 1 | J |
| 371 | 6.4 | 33 | J | 4.4 | -15 | 158 | -3.9 | 1.4 | -1.4 | 1 | J |
| 368 | 7.4 | 41 | J | 4.4 | -8 | 161 | -3.9 | 1.3 | -0.7 | 1 | J |
| 362 | 6.4 | 45 | J | 4.2 | 26 | 160 | -3.4 | 1.3 | 1.7 | 1 | J |
| 366 | 6.7 | 36 | J | 3.6 | 34 | 123 | -1.3 | 2.0 | 1.6 | 2 | J |
| 364 | 6.6 | 34 | J | 3.3 | 3 | 114 | -1.2 | 2.6 | 0.2 | 2 | J |
| 361 | 6.9 | 55 | J | 3.4 | -7 | 163 | -2.8 | 0.9 | -0.3 | 2 | J |
| 352 | 6.7 | 51 | J | 3.3 | -6 | 162 | -2.6 | 0.9 | -0.2 | 2 | J |
| 362 | 6.9 | 34 | J | 3.8 | 2 | 31 | 3.0 | 1.8 | 0.2 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 323 | 16.7 | 28 | L | 7.3 | -10 | 106 | -1.9 | 6.7 | -1.0 | 2 | C |
| 331 | 20.3 | 26 | C |  |  |  |  |  |  |  |  |
| 326 | 20.2 | 50 | A |  |  |  |  |  |  |  |  |
| 330 | 20.9 | 29 | C | 9.2 | -20 | 112 | -3.2 | 6.8 | -5.2 | 1 | C |
| 328 | 20.1 | 21 | C | 7.8 | -70 | 188 | -2.3 | -2.3 | -6.0 | 4 | C |
| 341 | 16.2 | 29 | C | 6.5 | -41 | 14 | 4.4 | -0.3 | -4.1 | 2 | C |
| 339 | 18.3 | 32 | C | 5.6 | -20 | 19 | 3.3 | 0.6 | -1.5 | 4 | C |
| 332 | 12.3 | 15 | C | 8.0 | -20 | 43 | 5.5 | 3.9 | -4.4 | 0 | C |
| 333 | 12.6 | 16 | C | 8.2 | -22 | 40 | 5.9 | 3.5 | -4.6 | 0 | C |
| 335 | 15.1 | 25 | C | 6.9 | -3 | 72 | 1.6 | 4.6 | -1.9 | 4 | C |
| 333 | 13.9 | 24 | C | 7.6 | -17 | 46 | 4.2 | 3.7 | -3.1 | 4 | C |
| 344 | 14.4 | 30 | C | 7.6 | -24 | 2 | 6.6 | -0.5 | -2.9 | 2 | C |
| 335 | 13.2 | 26 | C | 7.4 | -2 | 27 | 6.5 | 3.1 | -0.9 | 2 | C |
| 339 | 14.3 | 24 | C | 6.7 | -12 | 37 | 5.1 | 3.7 | -2.0 | 1 | C |
| 345 | 15.4 | 30 | C | 6.3 | -12 | 46 | 4.0 | 4.0 | -1.6 | 2 | C |
| 319 | 12.9 | 31 | C | 7.4 | 5 | 127 | -4.4 | 5.9 | 0.4 | 1 | C |
| 319 | 12.6 | 28 | C | 6.8 | 17 | 122 | -3.4 | 5.5 | 2.0 | 1 | C |
| 316 | 14.2 | 27 | C | 6.3 | 24 | 130 | -3.6 | 4.2 | 2.7 | 1 | C |
| 325 | 13.7 | 34 | C | 7.1 | 0 | 86 | 0.4 | 6.9 | 0.3 | 1 | C |
| 329 | 13.0 | 25 | C | 7.6 | 1 | 89 | 0.1 | 7.0 | 0.6 | 3 | C |
| 322 | 13.4 | 23 | C | 8.0 | 2 | 97 | -0.9 | 7.9 | 0.8 | 1 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 321 | 16.0 | 35 | C | 7.0 | -37 | 263 | -0.7 | -5.0 | -4.1 | 2 | C |
| 320 | 18.0 | 30 | C | 7.8 | -21 | 262 | -0.9 | -6.6 | -2.7 | 2 | C |
| 312 | 18.8 | 24 | C | 7.7 | -17 | 274 | 0.5 | -7.0 | -1.9 | 2 | C |
| 309 | 16.8 | 31 | C | 8.0 | 1 | 292 | 2.8 | -6.8 | 0.7 | 3 | C |
| 315 | 14.0 | 40 | C | 7.8 | 14 | 329 | 6.3 | -3.5 | 2.4 | 2 | C |
| 317 | 9.5 | 49 | C | 9.1 | 16 | 322 | 6.8 | -4.7 | 3.6 | 0 | C |
| 308 | 11.8 | 40 | C | 7.8 | 21 | 316 | 5.2 | -4.1 | 3.9 | 1 | C |
| 312 | 9.2 | 43 | C | 8.3 | 31 | 320 | 5.3 | -3.0 | 5.4 | 1 | C |
| 313 | 9.4 | 46 | C | 7.9 | 23 | 308 | 4.3 | -4.1 | 4.6 | 2 | C |
| 310 | 9.6 | 45 | C | 7.3 | 19 | 293 | 2.6 | -4.9 | 4.3 | 2 | C |
| 315 | 10.0 | 49 | C | 7.1 | 12 | 276 | 0.7 | -5.8 | 3.7 | 1 | C |
| 307 | 9.4 | 36 | C | 7.2 | 19 | 297 | 3.0 | -4.9 | 4.2 | 1 | C |
| 295 | 17.3 | 17 | C | 5.2 | 24 | 285 | 1.1 | -3.6 | 3.3 | 2 | C |
| 285 | 21.2 | 16 | C | 4.1 | 30 | 178 | -2.9 | 0.5 | 1.6 | 2 | C |
| 284 | 22.7 | 14 | C | 4.5 | -8 | 142 | -3.3 | 2.3 | -1.2 | 2 | C |
| 289 | 25.4 | 12 | C | 4.2 | 6 | 136 | -2.1 | 2.1 | -0.1 | 3 | C |
| 290 | 25.9 | 11 | C | 4.2 | -24 | 126 | -1.9 | 2.3 | -1.8 | 2 | C |
| 290 | 27.2 | 12 | C | 4.7 | -10 | 100 | -0.7 | 4.0 | -1.1 | 2 | C |
| 289 | 28.1 | 13 | C | 4.5 | 22 | 116 | -1.6 | 3.4 | 1.4 | 2 | C |
| 286 | 28.1 | 9 | C | 4.4 | -21 | 100 | -0.7 | 3.9 | -1.5 | 1 | C |
| 285 | 27.0 | 11 | C | 4.5 | -30 | 68 | 1.3 | 3.2 | -1.8 | 2 | C |
| 296 | 24.7 | 14 | C | 5.1 | -39 | 24 | 3.4 | 1.7 | -2.8 | 2 | C |
| 305 | 19.3 | 23 | C | 6.5 | -26 | 325 | 4.2 | -2.7 | -2.7 | 3 | C |
| 303 | 19.4 | 27 | C | 7.7 | -4 | 314 | 5.2 | -5.3 | -0.9 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 483 | 6.2 | 131 | C | 7.1 | 20 | 354 | 6.0 | -0.7 | 2.1 | 2 | C |
| 488 | 6.6 | 124 | C | 6.9 | -21 | 334 | 5.4 | -2.6 | -2.4 | 2 | C |
| 486 | 6.2 | 116 | C | 6.7 | 16 | 352 | 5.4 | -0.7 | 1.5 | 3 | C |
| 477 | 5.9 | 115 | C | 6.5 | 11 | 348 | 5.8 | -1.1 | 1.2 | 2 | C |
| 478 | 5.7 | 104 | C | 6.8 | -2 | 342 | 5.9 | -2.0 | -0.0 | 2 | C |
| 476 | 8.1 | 159 | L | 7.1 | -9 | 347 | 6.7 | -1.7 | -0.8 | 1 | C |
| 477 | 8.7 | 167 | J | 6.6 | -1 | 2 | 6.3 | 0.2 | -0.1 | 2 | C |
| 470 | 8.3 | 159 | J | 7.0 | 22 | 344 | 5.4 | -0.8 | 2.7 | 3 | C |
| 455 | 5.6 | 115 | C | 7.4 | 29 | 280 | 1.0 | -4.6 | 5.0 | 2 | C |
| 441 | 5.1 | 111 | C | 7.3 | 9 | 294 | 2.9 | -5.6 | 3.1 | 1 | C |
| 456 | 6.4 | 148 | J | 7.3 | 15 | 307 | 3.4 | -3.7 | 2.9 | 4 | C |
| 462 | 6.4 | 191 | J | 7.9 | 14 | 290 | 2.6 | -6.0 | 4.1 | 1 | C |
| 466 | 5.6 | 155 | J | 7.8 | 19 | 289 | 2.2 | -5.3 | 4.0 | 3 | J |
| 457 | 5.5 | 186 | J | 7.9 | 15 | 291 | 2.5 | -5.7 | 3.5 | 3 | J |
| 463 | 4.7 | 127 | J | 7.6 | 11 | 288 | 2.1 | -6.1 | 2.8 | 2 | J |
| 455 | 5.3 | 138 | J | 6.7 | 13 | 318 | 4.1 | -3.4 | 1.9 | 3 | J |
| 483 | 5.6 | 162 | J | 7.0 | 3 | 277 | 0.8 | -6.4 | 1.1 | 3 | J |
| 480 | 5.4 | 154 | J | 6.9 | -5 | 281 | 1.3 | -6.6 | -0.1 | 1 | J |
| 450 | 4.9 | 126 | J | 6.4 | 2 | 311 | 3.7 | -4.2 | 0.3 | 3 | J |
| 447 | 5.1 | 133 | J | 6.6 | -7 | 306 | 3.6 | -5.0 | -0.9 | 2 | J |
| 471 | 5.2 | 151 | J | 6.1 | 6 | 285 | 1.3 | -4.9 | 0.2 | 3 | J |
| 443 | 5.2 | 156 | J | 5.6 | -14 | 327 | 3.7 | -2.3 | -1.3 | 3 | J |
| 442 | 5.0 | 140 | J | 7.0 | 5 | 302 | 3.4 | -5.5 | 0.0 | 2 | J |
| 454 | 6.4 | 80 | J | 6.6 | 17 | 256 | -1.3 | -5.2 | 1.1 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 448 | 6.9 | 87 | J | 6.4 | 27 | 261 | -0.9 | -5.6 | 2.4 | 2 | J |
| 2 | 436 | 6.4 | 75 | J | 6.6 | 23 | 263 | -0.7 | -5.7 | 2.1 | 2 | J |
| 3 | 416 | 7.1 | 83 | J | 6.6 | 26 | 291 | 1.8 | -4.6 | 2.4 | 4 | J |
| 4 | 418 | 8.0 | 88 | J | 7.0 | 37 | 286 | 1.3 | -4.4 | 3.9 | 4 | J |
| 5 | 407 | 7.7 | 101 | J | 7.6 | -3 | 300 | 3.3 | -5.8 | 0.3 | 3 | J |
| 6 | 414 | 7.9 | 107 | J | 6.6 | 14 | 290 | 2.0 | -5.2 | 2.5 | 2 | J |
| 7 | 399 | 8.9 | 132 | J | 6.5 | -4 | 324 | 4.0 | -2.9 | 0.3 | 4 | J |
| 8 | 408 | 9.3 | 136 | J | 6.9 | -11 | 298 | 2.4 | -4.5 | 0.3 | 5 | J |
| 9 | 430 | 9.3 | 145 | J | 8.2 | 39 | 279 | 0.9 | -3.9 | 6.1 | 4 | J |
| 10 | 449 | 8.3 | 128 | J | 9.4 | 24 | 260 | -1.4 | -6.2 | 5.8 | 4 | J |
| 11 | 446 | 9.2 | 128 | J | 9.4 | 36 | 269 | -0.1 | -4.6 | 6.6 | 5 | J |
| 12 | 414 | 9.5 | 136 | J | 9.2 | 46 | 308 | 3.5 | -2.4 | 7.1 | 4 | J |
| 13 | 397 | 9.9 | 135 | J | 9.5 | 26 | 316 | 5.6 | -4.0 | 5.2 | 4 | J |
| 14 | 430 | 10.1 | 161 | J | 10.1 | 18 | 283 | 2.0 | -7.6 | 5.0 | 4 | J |
| 15 | 428 | 9.1 | 127 | J | 10.2 | 5 | 273 | 0.5 | -9.3 | 2.9 | 3 | J |
| 16 | 416 | 9.2 | 97 | J | 9.8 | 17 | 286 | 2.2 | -7.1 | 3.7 | 5 | J |
| 17 | 427 | 9.7 | 157 | J | 9.2 | -2 | 270 | -0.0 | -8.9 | 0.7 | 2 | J |
| 18 | 411 | 9.6 | 138 | J | 8.9 | 6 | 281 | 1.5 | -7.7 | 1.3 | 4 | J |
| 19 | 417 | 10.2 | 152 | J | 9.1 | -2 | 277 | 1.1 | -8.6 | -0.2 | 3 | J |
| 20 | 410 | 10.6 | 131 | J | 8.4 | 3 | 283 | 1.6 | -7.0 | 0.2 | 4 | J |
| 21 | 416 | 8.5 | 102 | C | 8.4 | 9 | 274 | 0.6 | -7.3 | 0.7 | 3 | C |
| 22 | 408 | 8.3 | 98 | C | 7.7 | -17 | 315 | 2.8 | -2.7 | -1.5 | 7 | J |
| 23 | 410 | 8.1 | 116 | J | 7.9 | 13 | 279 | 1.2 | -7.4 | 1.0 | 2 | J |
| 24 | 413 | 8.3 | 128 | J | 7.9 | 5 | 281 | 1.4 | -7.5 | -0.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 352 | 6.0 | 86 | J | 5.1 | 16 | 341 | 4.5 | -1.6 | 1.2 | 1 | J |
| 2 | 351 | 6.1 | 86 | J | 5.2 | 15 | 353 | 4.9 | -0.7 | 1.3 | 1 | J |
| 3 | 357 | 5.9 | 69 | J | 4.8 | 8 | 331 | 4.0 | -2.2 | 0.6 | 2 | J |
| 4 | 359 | 5.7 | 69 | J | 5.0 | 2 | 306 | 2.8 | -3.8 | 0.3 | 2 | J |
| 5 | 365 | 6.4 | 38 | J | 5.4 | -6 | 296 | 2.2 | -4.6 | -0.1 | 2 | J |
| 6 | 376 | 6.3 | 28 | J | 5.0 | -18 | 261 | -0.7 | -4.7 | -0.7 | 1 | J |
| 7 | 378 | 6.1 | 28 | J | 4.9 | -12 | 245 | -2.0 | -4.4 | -0.0 | 1 | J |
| 8 | 370 | 6.1 | 37 | J | 4.1 | -1 | 272 | 0.1 | -3.5 | 0.9 | 2 | J |
| 9 | 366 | 6.4 | 37 | J | 4.3 | -8 | 277 | 0.4 | -3.6 | 0.6 | 2 | J |
| 10 | 356 | 6.8 | 52 | J | 4.8 | -25 | 328 | 3.5 | -2.7 | -1.2 | 1 | J |
| 11 | 370 | 5.5 | 31 | J | 5.5 | 3 | 293 | 2.1 | -4.6 | 1.8 | 1 | J |
| 12 | 364 | 6.6 | 23 | J | 5.7 | -18 | 289 | 1.7 | -5.2 | -0.1 | 2 | J |
| 13 | 364 | 6.9 | 20 | J | 5.8 | 3 | 283 | 1.3 | -5.2 | 1.8 | 1 | J |
| 14 | 354 | 7.7 | 37 | J | 6.1 | 7 | 291 | 2.0 | -4.9 | 2.0 | 2 | J |
| 15 | 362 | 8.0 | 17 | J | 6.4 | -3 | 253 | -1.8 | -5.9 | 0.9 | 2 | J |
| 16 | 360 | 9.4 | 19 | J | 7.0 | 4 | 255 | -1.7 | -6.3 | 1.5 | 2 | J |
| 17 | 358 | 9.4 | 24 | J | 6.6 | 26 | 239 | -2.6 | -4.0 | 2.9 | 3 | J |
| 18 | 359 | 9.5 | 20 | J | 6.3 | 40 | 235 | -2.5 | -3.4 | 3.8 | 3 | J |
| 19 | 351 | 5.8 | 18 | J | 7.4 | 18 | 267 | -0.3 | -6.6 | 2.1 | 3 | J |
| 20 | 345 | 5.3 | 26 | J | 7.3 | -28 | 288 | 1.8 | -5.4 | -3.3 | 3 | J |
| 21 | 348 | 6.8 | 22 | J | 6.9 | -9 | 276 | 0.6 | -6.0 | -1.5 | 3 | J |
| 22 | 341 | 8.2 | 22 | C | 7.2 | 5 | 289 | 2.2 | -6.6 | -0.1 | 1 | C |
| 23 | 348 | 4.9 | 24 | J | 6.5 | 3 | 290 | 1.8 | -5.0 | -0.3 | 4 | J |
| 24 | 340 | 5.4 | 39 | C | 7.3 | -17 | 338 | 6.5 | -2.4 | -2.4 | 0 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 351 | 6.5 | 27 | C | 4.3 | -20 | 309 | 2.5 | -2.9 | -1.7 | 1 | C |
| 2 | 356 | 9.1 | 14 | C | 3.2 | 0 | 332 | 2.8 | -1.5 | -0.1 | 0 | C |
| 3 | 352 | 9.3 | 13 | C | 2.7 | -4 | 332 | 2.4 | -1.3 | -0.2 | 1 | C |
| 4 | 342 | 9.5 | 15 | C | 2.9 | -8 | 336 | 2.6 | -1.2 | -0.4 | 1 | C |
| 5 | 340 | 9.4 | 9 | C | 3.0 | -5 | 341 | 2.9 | -1.0 | -0.2 | 0 | C |
| 6 | 336 | 9.6 | 9 | C | 3.3 | -11 | 333 | 2.8 | -1.5 | -0.4 | 0 | C |
| 7 | 332 | 10.3 | 8 | C | 3.2 | -14 | 334 | 2.8 | -1.5 | -0.5 | 0 | C |
| 8 | 335 | 10.9 | 14 | J | 2.6 | -16 | 279 | 0.4 | -2.6 | -0.1 | 1 | J |
| 9 | 330 | 9.4 | 11 | J | 3.1 | -13 | 313 | 2.1 | -2.3 | -0.1 | 1 | J |
| 10 | 328 | 9.6 | 10 | J | 2.9 | -11 | 316 | 2.0 | -2.1 | 0.1 | 0 | J |
| 11 | 318 | 10.9 | 11 | C | 2.9 | -16 | 303 | 1.5 | -2.4 | -0.1 | 1 | J |
| 12 | 317 | 11.2 | 9 | C | 3.2 | -2 | 307 | 1.8 | -2.3 | 0.6 | 1 | C |
| 13 | 318 | 10.5 | 8 | C | 2.7 | 4 | 301 | 1.4 | -2.2 | 0.8 | 1 | J |
| 14 | 315 | 6.1 | 9 | L | 3.0 | 18 | 302 | 1.4 | -2.0 | 1.4 | 1 | J |
| 15 | 314 | 10.8 | 12 | C | 2.8 | 14 | 320 | 2.1 | -1.6 | 1.0 | 0 | J |
| 16 | 311 | 8.9 | 19 | C | 4.1 | -13 | 317 | 2.8 | -2.7 | -0.5 | 1 | C |
| 17 | 305 | 10.1 | 17 | C | 4.2 | -16 | 338 | 3.7 | -1.6 | -1.0 | 1 | C |
| 18 | 306 | 11.0 | 20 | C | 4.0 | -3 | 355 | 3.9 | -0.3 | -0.2 | 1 | C |
| 19 | 304 | 9.5 | 20 | C | 4.3 | 3 | 331 | 3.6 | -2.0 | 0.2 | 1 | C |
| 20 | 305 | 9.4 | 19 | C | 4.6 | 0 | 315 | 3.2 | -3.2 | -0.2 | 0 | C |
| 21 | 306 | 10.0 | 17 | C | 4.1 | 76 | 4 | 0.4 | -0.1 | 1.6 | 4 | J |
| 22 | 306 | 10.2 | 16 | C | 4.0 | 76 | 322 | 0.3 | -0.4 | 1.5 | 4 | J |
| 23 | 306 | 9.8 | 15 | C | 4.3 | 16 | 296 | 1.8 | -3.8 | 0.7 | 0 | C |
| 24 | 305 | 9.5 | 15 | C | 4.6 | 11 | 299 | 2.1 | -4.0 | 0.4 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 277 | 19.2 | 11 | C | 5.8 | 27 | 242 | -2.4 | -4.8 | 2.1 | 1 | C |
| 2 | 289 | 15.9 | 16 | J | 5.9 | 32 | 242 | -2.3 | -4.7 | 2.7 | 0 | J |
| 3 | 280 | 23.6 | 13 | C | 5.9 | 32 | 243 | -2.2 | -4.6 | 2.9 | 0 | C |
| 4 | 282 | 26.1 | 13 | C | 6.0 | 34 | 230 | -3.0 | -3.6 | 3.2 | 2 | C |
| 5 | 273 | 30.2 | 13 | C | 5.8 | 31 | 210 | -4.2 | -2.2 | 3.1 | 1 | C |
| 6 | 271 | 34.7 | 12 | C | 5.9 | 32 | 169 | -4.7 | 1.3 | 2.8 | 2 | C |
| 7 | 277 | 35.7 | 14 | C | 6.3 | 27 | 141 | -4.3 | 4.0 | 2.2 | 1 | C |
| 8 | 273 | 38.3 | 12 | C | 6.0 | 26 | 138 | -3.9 | 4.1 | 1.7 | 1 | C |
| 9 | 274 | 40.1 | 12 | C | 5.2 | 14 | 126 | -3.0 | 4.2 | 0.2 | 1 | C |
| 10 | 274 | 39.3 | 12 | C | 5.3 | 4 | 119 | -2.5 | 4.4 | -0.9 | 1 | C |
| 11 | 289 | 36.7 | 28 | J | 5.2 | 8 | 129 | -3.2 | 4.0 | -0.4 | 1 | J |
| 12 | 294 | 34.2 | 29 | J | 6.9 | -3 | 103 | -1.4 | 5.9 | -2.0 | 3 | J |
| 13 | 299 | 28.3 | 25 | J | 9.7 | -24 | 63 | 4.0 | 6.6 | -5.8 | 0 | J |
| 14 | 291 | 29.5 | 31 | J | 8.0 | -8 | 94 | -0.4 | 6.1 | -2.3 | 5 | J |
| 15 | 289 | 26.7 | 30 | J | 9.0 | 8 | 112 | -3.3 | 8.2 | -0.2 | 2 | J |
| 16 | 291 | 28.5 | 30 | J | 8.3 | 6 | 116 | -3.5 | 7.3 | -0.1 | 2 | J |
| 17 | 292 | 29.2 | 31 | J | 8.6 | 25 | 119 | -3.6 | 6.8 | 3.0 | 2 | J |
| 18 | 296 | 31.7 | 26 | J | 9.0 | 20 | 94 | -0.6 | 8.3 | 2.8 | 2 | J |
| 19 | 296 | 35.7 | 26 | J | 9.5 | 8 | 89 | 0.2 | 9.1 | 1.5 | 2 | J |
| 20 | 299 | 30.8 | 28 | J | 11.1 | -6 | 87 | 0.6 | 11.1 | -0.3 | 0 | J |
| 21 | 301 | 32.4 | 48 | J | 9.0 | 28 | 125 | -3.4 | 4.5 | 3.7 | 6 | J |
| 22 | 300 | 29.6 | 49 | J | 10.0 | 20 | 95 | -0.8 | 8.5 | 4.5 | 3 | J |
| 23 | 300 | 38.5 | 52 | J | 6.8 | 5 | 99 | -0.9 | 5.6 | 1.3 | 4 | J |
| 24 | 296 | 49.5 | 29 | C | 10.1 | -42 | 357 | 7.3 | 0.6 | -6.5 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 380 | 7.7 | 87 | J | 8.1 | -3 | 321 | 6.1 | -4.9 | -0.8 | 2 | J |
| | 382 | 7.5 | 90 | C | 7.9 | -3 | 319 | 5.8 | -4.9 | -0.6 | 2 | C |
| | 378 | 6.9 | 85 | C | 7.6 | 7 | 320 | 5.3 | -4.5 | 0.8 | 3 | C |
| | 389 | 5.4 | 103 | L | 7.3 | 26 | 305 | 2.0 | -2.7 | 1.8 | 6 | J |
| | 383 | 5.0 | 68 | J | 7.6 | 5 | 305 | 4.2 | -5.8 | 1.3 | 2 | J |
| | 380 | 3.3 | 59 | J | 7.8 | 6 | 311 | 5.0 | -5.6 | 1.8 | 1 | J |
| | 385 | 2.7 | 36 | J | 8.0 | 2 | 322 | 6.1 | -4.6 | 1.4 | 2 | J |
| | 396 | 2.9 | 42 | J | 8.0 | 7 | 321 | 6.0 | -4.4 | 2.2 | 1 | J |
| | 376 | 2.9 | 33 | C | 7.4 | 4 | 326 | 6.1 | -3.7 | 1.7 | 1 | C |
| | 368 | 3.0 | 34 | C | 6.9 | 8 | 323 | 5.4 | -3.5 | 2.1 | 1 | C |
| | 361 | 3.3 | 57 | C | 6.7 | 16 | 312 | 4.2 | -3.9 | 3.2 | 1 | J |
| | 372 | 3.0 | 43 | J | 6.5 | 12 | 313 | 4.2 | -3.9 | 2.6 | 1 | J |
| | 366 | 3.7 | 46 | C | 6.5 | 5 | 289 | 1.9 | -5.3 | 2.1 | 2 | C |
| | 391 | 2.8 | 33 | J | 6.6 | 21 | 278 | 0.8 | -5.2 | 3.8 | 1 | J |
| | 396 | 2.4 | 28 | J | 6.7 | 11 | 277 | 0.8 | -6.1 | 2.6 | 1 | J |
| | 392 | 4.5 | 35 | J | 6.4 | 3 | 289 | 2.0 | -5.8 | 1.3 | 1 | J |
| | 393 | 4.4 | 33 | J | 6.1 | 5 | 282 | 1.2 | -5.8 | 1.2 | 1 | J |
| | 385 | 2.5 | 43 | L | 6.6 | 16 | 266 | -0.4 | -6.0 | 2.1 | 1 | J |
| | 392 | 2.8 | 50 | L | 6.3 | 8 | 261 | -1.0 | -6.1 | 0.9 | 1 | J |
| | 382 | 3.8 | 24 | J | 5.6 | 11 | 288 | 1.5 | -4.7 | 0.8 | 2 | J |
| | 367 | 5.2 | 46 | J | 5.5 | 22 | 311 | 3.3 | -3.9 | 1.7 | 1 | J |
| | 372 | 5.2 | 36 | J | 5.3 | 0 | 304 | 2.9 | -4.2 | -0.4 | 1 | J |
| | 369 | 5.2 | 39 | J | 5.2 | -2 | 299 | 2.4 | -4.3 | -0.7 | 1 | J |
| | 357 | 5.5 | 73 | J | 4.8 | 13 | 324 | 3.5 | -2.7 | 0.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 365 | 3.2 | 36 | C | 6.6 | -1 | 351 | 6.3 | -1.0 | -0.2 | 1 | J |
| | 375 | 2.0 | 43 | J | 7.6 | -14 | 354 | 7.1 | -0.6 | -1.8 | 2 | J |
| | 367 | 1.8 | 34 | J | 8.1 | -21 | 350 | 7.4 | -1.3 | -2.9 | 0 | J |
| | 380 | 3.0 | 57 | C | 7.8 | -23 | 327 | 5.8 | -3.8 | -2.7 | 2 | C |
| | 387 | 2.8 | 41 | J | 7.2 | -12 | 306 | 3.9 | -5.4 | -0.9 | 3 | J |
| | 390 | 2.9 | 52 | J | 7.1 | -13 | 312 | 4.1 | -4.7 | -0.7 | 3 | J |
| | 387 | 3.4 | 82 | J | 7.1 | -11 | 318 | 5.2 | -4.8 | -0.3 | 1 | J |
| | 399 | 5.1 | 63 | J | 6.3 | -6 | 319 | 4.7 | -4.1 | 0.4 | 1 | J |
| | 397 | 7.0 | 29 | J | 5.1 | -9 | 325 | 4.1 | -3.0 | 0.1 | 0 | J |
| | 393 | 6.6 | 33 | J | 5.1 | 5 | 334 | 4.4 | -1.9 | 1.1 | 2 | J |
| | 389 | 6.2 | 22 | J | 4.7 | -14 | 337 | 4.0 | -2.0 | -0.5 | 1 | J |
| | 400 | 6.1 | 30 | J | 4.9 | -12 | 342 | 4.5 | -1.7 | -0.5 | 1 | J |
| | 400 | 7.5 | 53 | J | 4.0 | -18 | 349 | 3.6 | -1.0 | -1.0 | 1 | J |
| | 384 | 8.2 | 24 | J | 3.4 | -30 | 346 | 2.8 | -1.1 | -1.4 | 1 | J |
| | 382 | 8.3 | 27 | J | 3.7 | -11 | 325 | 2.8 | -2.1 | -0.3 | 1 | J |
| | 378 | 5.7 | 28 | J | 4.7 | 1 | 309 | 2.9 | -3.5 | 0.6 | 1 | J |
| | 363 | 5.8 | 36 | C | 5.0 | 4 | 322 | 3.9 | -2.9 | 0.6 | 1 | C |
| | 362 | 5.6 | 35 | C | 5.0 | -1 | 313 | 3.3 | -3.6 | 0.1 | 1 | C |
| | 367 | 5.1 | 30 | J | 4.7 | -16 | 317 | 3.2 | -3.0 | -1.3 | 1 | J |
| | 371 | 5.3 | 30 | J | 4.5 | 11 | 303 | 2.1 | -3.3 | 0.6 | 2 | J |
| | 375 | 5.0 | 22 | J | 4.7 | 8 | 297 | 2.1 | -4.1 | 0.3 | 1 | J |
| | 369 | 5.0 | 26 | J | 4.7 | 0 | 297 | 2.1 | -4.2 | -0.5 | 1 | J |
| | 358 | 4.6 | 30 | J | 4.8 | -2 | 313 | 3.3 | -3.5 | -0.6 | 1 | J |
| | 350 | 5.7 | 29 | C | 4.8 | -9 | 313 | 3.2 | -3.3 | -1.2 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 305 | 9.2 | 16 | C | 4.5 | 18 | 299 | 2.1 | -3.9 | 0.9 | 0 | C |
| | 306 | 11.0 | 13 | C | 4.0 | 18 | 283 | 0.7 | -3.2 | 0.8 | 2 | C |
| | 300 | 13.0 | 9 | C | 3.3 | 24 | 205 | -2.7 | -1.3 | 1.3 | 0 | C |
| | 299 | 13.0 | 9 | C | 3.3 | 17 | 200 | -2.9 | -1.1 | 1.0 | 1 | C |
| | 296 | 13.3 | 9 | C | 3.1 | 28 | 208 | -2.3 | -1.1 | 1.5 | 1 | C |
| | 295 | 13.3 | 8 | C | 3.0 | 28 | 210 | -2.3 | -1.1 | 1.6 | 0 | C |
| | 290 | 13.6 | 9 | C | 2.9 | 24 | 250 | -0.8 | -2.1 | 1.5 | 1 | C |
| | 285 | 13.8 | 9 | C | 2.6 | 13 | 271 | 0.0 | -2.3 | 1.2 | 0 | C |
| | 283 | 14.1 | 9 | C | 2.8 | 14 | 263 | -0.3 | -2.3 | 1.3 | 0 | C |
| | 282 | 14.5 | 13 | C | 2.7 | 12 | 268 | -0.1 | -2.3 | 1.3 | 1 | C |
| | 283 | 10.8 | 11 | J | 2.4 | 19 | 268 | -0.1 | -1.8 | 1.3 | 1 | J |
| | 276 | 16.0 | 9 | C | 2.4 | 12 | 330 | 1.7 | -0.8 | 0.7 | 1 | C |
| | 276 | 16.3 | 9 | C | 2.4 | -6 | 328 | 2.0 | -1.3 | 0.1 | 1 | C |
| | 277 | 16.6 | 10 | C | 2.5 | 32 | 322 | 1.6 | -0.9 | 1.5 | 1 | C |
| | 281 | 20.6 | 14 | A | 2.3 | 51 | 334 | 1.3 | -0.3 | 1.9 | 0 | C |
| | 284 | 21.9 | 12 | A | 1.7 | 31 | 266 | -0.1 | -1.3 | 1.0 | 0 | C |
| | 278 | 22.6 | 8 | C | 2.8 | 20 | 46 | 1.3 | 1.4 | 0.6 | 2 | C |
| | 279 | 17.5 | 12 | J | 2.4 | 29 | 289 | 0.7 | -2.0 | 1.2 | 0 | J |
| | 280 | 17.3 | 12 | J | 2.8 | 30 | 274 | 0.2 | -2.3 | 1.3 | 1 | J |
| | 281 | 17.5 | 12 | J | 3.2 | 41 | 230 | -1.5 | -1.9 | 1.9 | 1 | J |
| | 276 | 16.5 | 13 | J | 4.0 | 36 | 238 | -1.7 | -3.0 | 2.1 | 1 | J |
| | 276 | 19.2 | 12 | J | 2.2 | 20 | 236 | -1.1 | -1.7 | 0.5 | 1 | J |
| | 279 | 16.4 | 13 | J | 4.2 | 17 | 236 | -2.1 | -3.3 | 0.7 | 2 | J |
| | 285 | 12.5 | 12 | J | 6.1 | 27 | 247 | -2.1 | -5.2 | 2.0 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 303 | 32.8 | 29 | J | 8.8 | -52 | 336 | 4.7 | -1.2 | -6.8 | 3 | J |
| | 302 | 21.9 | 34 | J | 10.9 | -45 | 339 | 7.0 | -1.9 | -7.7 | 2 | J |
| | 311 | 21.8 | 40 | J | 10.9 | -39 | 329 | 7.3 | -4.0 | -7.1 | 1 | J |
| | 312 | 18.8 | 35 | J | 12.3 | -15 | 309 | 7.4 | -9.2 | -3.1 | 1 | J |
| | 306 | 19.7 | 36 | J | 11.8 | -2 | 301 | 5.9 | -9.9 | 0.2 | 2 | J |
| | 301 | 15.6 | 33 | J | 11.4 | -8 | 299 | 5.4 | -9.8 | -0.3 | 2 | J |
| | 305 | 17.6 | 40 | J | 11.0 | -3 | 292 | 4.0 | -9.9 | 1.3 | 2 | J |
| | 301 | 26.3 | 42 | C | 9.5 | 35 | 264 | -0.8 | -6.0 | 6.7 | 2 | C |
| | 305 | 15.3 | 64 | C | 11.3 | 32 | 263 | -1.1 | -7.4 | 8.0 | 2 | C |
| | 313 | 12.1 | 74 | C | 11.8 | 39 | 261 | -1.4 | -6.6 | 9.4 | 2 | C |
| | 316 | 11.7 | 81 | C | 11.5 | 43 | 255 | -2.2 | -5.6 | 9.6 | 1 | C |
| | 310 | 11.9 | 80 | C | 10.9 | 53 | 262 | -0.9 | -4.0 | 10.1 | 0 | C |
| | 320 | 11.7 | 75 | C | 10.5 | 25 | 268 | -0.3 | -7.7 | 6.3 | 3 | C |
| | 313 | 11.3 | 68 | C | 10.4 | 33 | 269 | -0.1 | -7.3 | 7.3 | 1 | C |
| | 320 | 11.3 | 77 | C | 9.3 | 31 | 271 | 0.1 | -6.5 | 5.6 | 3 | C |
| | 334 | 11.1 | 70 | C | 9.2 | 38 | 265 | -0.6 | -6.1 | 6.1 | 2 | C |
| | 343 | 11.1 | 50 | C | 9.9 | 21 | 258 | -1.9 | -8.6 | 4.1 | 2 | C |
| | 338 | 11.5 | 45 | C | 9.6 | 21 | 264 | -1.0 | -8.7 | 3.6 | 1 | C |
| | 335 | 11.8 | 47 | C | 9.6 | 44 | 267 | -0.4 | -6.9 | 6.3 | 2 | C |
| | 332 | 13.6 | 56 | A | | | | | | | | |
| | 347 | 11.0 | 30 | C | 10.7 | 45 | 274 | 0.5 | -8.4 | 6.7 | 0 | C |
| | 343 | 12.3 | 39 | C | 10.9 | 18 | 275 | 0.8 | -10.2 | 1.8 | 3 | C |
| | 339 | 11.6 | 39 | C | 10.5 | 18 | 292 | 3.4 | -8.9 | 1.7 | 3 | C |
| | 338 | 12.5 | 44 | C | 10.8 | 11 | 289 | 3.0 | -9.0 | 0.5 | 3 | C |

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## 12/14/78 – 12/21/78

### DEC. 14, 1978 348

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 13.1 | 45 | C | 12.0 | 17 | 275 | 1.0 | -11.5 | 1.8 | 2 | C |
| 2 | 377 | 16.1 | 126 | C | 13.9 | -7 | 284 | 3.2 | -12.8 | -3.0 | 4 | C |
| 3 | 493 | 26.0 | 180 | C | 28.3 | 23 | 281 | 4.2 | -22.1 | 8.0 | 14 | C |
| 4 | 500 | 34.7 | 297 | C | 21.8 | 15 | 290 | 5.7 | -16.0 | 4.4 | 7 | C |
| 5 | 508 | 24.5 | 251 | C | 29.6 | 40 | 282 | 4.2 | -18.4 | 17.5 | 12 | C |
| 6 | 561 | 23.7 | 333 | C | 23.7 | -44 | 234 | -8.9 | -13.8 | -13.1 | 10 | C |
| 7 | 544 | 23.7 | 288 | C | 27.5 | -61 | 229 | -8.6 | -13.8 | -21.4 | 4 | C |
| 8 | 513 | 19.5 | 282 | C | 29.9 | 32 | 270 | -0.1 | -10.8 | 10.5 | 25 | C |
| 9 | 505 | 12.1 | 226 | C | 27.0 | 29 | 9 | 15.7 | 4.7 | 8.0 | 19 | C |
| 10 | 572 | 18.9 | 228 | C | 21.4 | -20 | 344 | 18.4 | -7.1 | -5.4 | 5 | C |
| 11 | 548 | 13.3 | 259 | C | 21.1 | 16 | 348 | 19.5 | -2.4 | 6.5 | 3 | C |
| 12 | 518 | 19.2 | 244 | C | 16.4 | 12 | 69 | 5.0 | 13.1 | -0.4 | 7 | C |
| 13 | 510 | 18.3 | 234 | C | 13.7 | 45 | 333 | 6.9 | -1.5 | 8.3 | 8 | C |
| 14 | 524 | 17.2 | 219 | C | 12.1 | 24 | 290 | 3.6 | -8.6 | 6.5 | 3 | C |
| 15 | 517 | 15.0 | 200 | C | 10.7 | 14 | 311 | 6.4 | -6.8 | 3.5 | 3 | C |
| 16 | 512 | 13.8 | 183 | C | 12.3 | 15 | 295 | 4.5 | -9.5 | 4.1 | 4 | C |
| 17 | 505 | 10.8 | 179 | C | 13.3 | 21 | 290 | 4.1 | -11.3 | 5.4 | 2 | C |
| 18 | 500 | 8.6 | 147 | C | 13.9 | 20 | 305 | 7.3 | -10.4 | 4.6 | 2 | C |
| 19 | 499 | 6.5 | 134 | C | 14.9 | 18 | 310 | 9.1 | -11.0 | 4.1 | 1 | C |
| 20 | 508 | 6.7 | 144 | C | 15.5 | 18 | 306 | 8.5 | -12.3 | 3.8 | 2 | C |
| 21 | 483 | 9.4 | 183 | C | 14.0 | 17 | 302 | 7.0 | -11.7 | 2.7 | 2 | C |
| 22 | 477 | 9.1 | 179 | C | 14.0 | 13 | 294 | 5.5 | -12.6 | 1.2 | 2 | C |
| 23 | 471 | 8.7 | 173 | C | 13.1 | 35 | 302 | 5.4 | -9.9 | 5.7 | 3 | C |
| 24 | 474 | 11.0 | 164 | C | 11.5 | 44 | 320 | 4.3 | -4.4 | 4.8 | 7 | C |

### DEC. 15, 1978 349

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 503 | 14.2 | 144 | C | 10.1 | 31 | 311 | 3.6 | -4.5 | 2.6 | 8 | C |
| 2 | 496 | 22.8 | 71 | C | 10.7 | 26 | 77 | 0.5 | 1.9 | 1.2 | 10 | C |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 504 | 5.9 | 34 | C | 4.5 | -54 | 185 | -2.6 | -1.0 | -3.5 | 1 | C |
| 9 | 503 | 5.2 | 31 | C | 4.8 | -62 | 177 | -2.2 | -0.9 | -4.1 | 1 | C |
| 10 | 492 | 4.9 | 27 | C | 4.9 | -57 | 194 | -2.6 | -1.7 | -3.7 | 0 | C |
| 11 | 489 | 5.1 | 28 | C | 4.8 | -51 | 196 | -2.9 | -1.8 | -3.3 | 0 | C |
| 12 | 484 | 5.1 | 32 | C | 4.5 | -55 | 199 | -2.4 | -1.7 | -3.4 | 1 | C |
| 13 | 477 | 5.5 | 29 | C | 4.3 | -63 | 192 | -1.9 | -1.3 | -3.6 | 0 | C |
| 14 | 474 | 5.3 | 30 | C | 4.3 | -64 | 198 | -1.7 | -1.3 | -3.6 | 0 | C |
| 15 | 471 | 6.9 | 32 | C | 3.7 | -52 | 144 | -1.8 | 0.9 | -3.1 | 1 | C |
| 16 | 472 | 7.3 | 37 | C | 3.8 | -38 | 60 | 1.2 | 1.8 | -2.0 | 2 | C |
| 17 | 478 | 7.7 | 39 | C | 3.7 | -10 | 21 | 3.3 | 1.2 | -0.7 | 1 | C |
| 18 | 486 | 7.8 | 46 | C | 3.7 | -4 | 22 | 3.4 | 1.3 | -0.2 | 0 | C |
| 19 | 484 | 10.0 | 39 | C | 3.6 | 12 | 10 | 3.3 | 0.5 | 0.7 | 1 | C |
| 20 | 482 | 9.9 | 31 | C | 4.1 | -8 | 329 | 3.3 | -2.0 | -0.7 | 1 | C |
| 21 | 478 | 9.6 | 29 | C | 4.6 | 14 | 342 | 4.1 | -1.5 | 0.9 | 1 | C |
| 22 | 475 | 8.4 | 26 | C | 5.6 | 21 | 342 | 4.9 | -1.9 | 1.7 | 1 | C |
| 23 | 463 | 9.6 | 25 | C | 4.4 | 27 | 134 | -1.3 | 1.1 | 1.1 | 4 | C |
| 24 | 454 | 13.0 | 27 | C | 4.9 | 30 | 150 | -3.5 | 1.6 | 2.7 | 1 | C |

### DEC. 16, 1978 350

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 448 | 12.2 | 23 | C | 5.0 | 27 | 163 | -4.2 | 0.9 | 2.4 | 1 | C |
| 2 | 443 | 13.3 | 26 | C | 6.1 | 12 | 169 | -5.8 | 1.0 | 1.4 | 1 | C |
| 3 | 434 | 11.5 | 24 | C | 5.9 | -3 | 185 | -5.9 | -0.5 | -0.3 | 1 | C |
| 4 | 441 | 9.7 | 24 | C | 6.2 | -11 | 197 | -5.7 | -1.7 | -1.2 | 1 | C |
| 5 | 438 | 8.7 | 20 | C | 6.6 | -8 | 188 | -6.4 | -0.9 | -0.8 | 1 | C |
| 6 | 431 | 6.9 | 27 | C | 6.2 | -12 | 196 | -5.7 | -1.8 | -1.1 | 1 | C |
| 7 | 428 | 6.4 | 26 | C | 5.7 | -7 | 195 | -5.4 | -1.6 | -0.5 | 1 | C |
| 8 | 425 | 6.9 | 30 | C | 6.3 | -18 | 186 | -6.0 | -1.0 | -1.8 | 0 | C |
| 9 | 421 | 8.0 | 24 | C | 6.4 | -18 | 167 | -5.7 | 0.8 | -2.2 | 1 | C |
| 10 | 438 | 8.0 | 25 | C | 6.7 | -38 | 137 | -3.4 | 2.2 | -4.4 | 3 | C |
| 11 | 425 | 8.3 | 31 | C | 7.1 | -35 | 186 | -5.5 | -1.6 | -3.6 | 2 | C |
| 12 | 419 | 10.7 | 24 | C | 8.7 | -1 | 216 | -6.9 | -4.9 | 1.0 | 1 | C |
| 13 | 435 | 10.2 | 27 | C | 7.7 | 34 | 247 | -2.4 | -4.5 | 5.3 | 2 | C |
| 14 | 442 | 8.8 | 45 | C | 6.2 | 21 | 299 | 2.6 | -4.1 | 2.9 | 3 | C |
| 15 | 444 | 10.2 | 88 | A |  |  |  |  |  |  |  |  |
| 16 | 440 | 11.3 | 55 | C | 5.1 | -27 | 258 | -0.8 | -3.9 | -1.5 | 2 | C |
| 17 | 441 | 14.0 | 42 | C | 5.1 | -34 | 107 | -0.6 | 1.8 | -1.4 | 4 | C |
| 18 | 444 | 15.6 | 39 | C | 6.9 | -60 | 13 | 2.9 | 0.7 | -5.3 | 3 | C |
| 19 | 446 | 14.4 | 38 | C | 6.1 | -43 | 341 | 3.9 | -1.1 | -3.9 | 2 | C |
| 20 | 438 | 16.0 | 40 | C | 5.4 | -24 | 307 | 2.5 | -3.2 | -2.2 | 2 | C |
| 21 | 439 | 15.1 | 38 | C | 5.8 | [illegible] | 319 | 3.9 | -3.4 | -0.4 | 2 | C |
| 22 | 433 | 13.8 | 44 | C | 6.3 | 73 | 231 | -0.7 | -1.5 | 3.5 | 5 | C |
| 23 | 427 | 12.2 | 36 | C | 5.1 | 62 | 7 | 1.1 | -0.2 | 2.2 | 4 | C |
| 24 | 407 | 12.6 | 23 | C | 6.5 | 49 | 349 | 4.1 | -1.6 | 4.6 | 1 | C |

### DEC. 17, 1978 351

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 397 | 14.7 | 28 | C | 5.1 | 51 | 357 | 2.5 | -0.6 | 3.0 | 3 | C |
| 2 | 418 | 16.3 | 50 | C | 7.1 | 8 | 112 | -1.7 | 4.2 | 1.2 | 5 | C |
| 3 | 406 | 9.1 | 68 | C | 8.6 | -6 | 123 | -3.9 | 6.0 | -0.2 | 4 | C |
| 4 | 387 | 5.9 | 48 | C | 9.0 | -6 | 152 | -7.6 | 4.1 | -0.7 | 2 | C |
| 5 | 398 | 7.3 | 72 | C | 7.9 | 23 | 159 | -6.1 | 2.5 | 2.8 | 3 | C |
| 6 | 376 | 8.3 | 53 | C | 7.3 | -14 | 146 | -5.7 | 3.7 | -2.1 | 1 | C |
| 7 | 383 | 8.2 | 41 | C | 7.1 | 82 | 226 | -0.5 | 0.2 | 4.8 | 5 | C |
| 8 | 380 | 8.4 | 55 | C | 5.5 | 57 | 190 | -2.7 | 0.3 | 4.3 | 2 | C |
| 9 | 381 | 8.5 | 56 | C | 5.6 | 32 | 206 | -3.8 | -1.2 | 3.0 | 2 | C |
| 10 | 377 | 9.0 | 41 | C | 6.3 | 24 | 233 | -3.4 | -3.7 | 3.5 | 1 | C |
| 11 | 377 | 9.6 | 44 | C | 5.9 | 26 | 232 | -3.2 | -3.3 | 3.5 | 1 | C |
| 12 | 379 | 8.1 | 56 | C | 5.9 | 20 | 170 | -4.3 | 1.1 | 1.4 | 3 | C |
| 13 | 377 | 9.5 | 60 | C | 5.2 | 20 | 170 | -4.7 | 1.1 | 1.5 | 1 | C |
| 14 | 406 | 12.9 | 80 | C | 8.1 | 44 | 246 | -1.5 | -2.7 | 4.3 | 6 | C |
| 15 | 402 | 16.3 | 72 | C | 9.3 | 24 | 278 | 1.1 | -7.2 | 4.6 | 3 | C |
| 16 | 399 | 15.9 | 63 | C | 10.4 | 68 | 220 | -2.9 | -1.6 | 9.6 | 2 | C |
| 17 | 377 | 14.3 | 54 | C | 11.5 | 35 | 168 | -9.0 | 2.2 | 6.5 | 2 | C |
| 18 | 380 | 15.1 | 60 | C | 10.8 | 39 | 160 | -7.8 | 2.8 | 6.7 | 1 | C |
| 19 | 385 | 16.1 | 64 | C | 10.6 | 34 | 153 | -7.6 | 3.4 | 6.0 | 3 | C |
| 20 | 394 | 33.0 | 63 | L | 10.8 | 17 | 141 | -7.9 | 6.1 | 3.8 | 2 | C |
| 21 | 389 | 37.6 | 76 | L | 9.7 | 26 | 175 | -8.5 | 0.1 | 4.2 | 1 | C |
| 22 | 396 | 37.5 | 93 | L | 9.3 | -8 | 147 | -6.6 | 4.4 | -0.3 | 4 | C |
| 23 | 401 | 42.9 | 120 | L | 11.3 | -36 | 227 | -1.7 | -1.5 | -2.2 | 10 | C |
| 24 | 379 | 40.9 | 102 | L | 13.7 | 47 | 147 | -4.7 | 2.0 | 6.5 | 10 | C |

### DEC. 18, 1978 352

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 418 | 45.1 | 71 | L | 18.2 | 57 | 243 | -3.7 | -9.5 | 11.2 | 10 | C |
| 2 | 429 | 11.3 | 36 | C | 23.5 | 34 | 138 | -14.4 | 11.2 | 14.6 | 1 | C |
| 3 | 463 | 4.6 | 65 | C | 24.0 | 27 | 133 | -14.5 | 14.4 | 12.0 | 3 | C |
| 4 | 453 | 4.1 | 70 | C | 24.8 | 20 | 136 | -16.7 | 15.7 | 9.2 | 1 | C |
| 5 | 417 | 15.4 | 76 | C | 23.1 | 3 | 137 | -16.7 | 15.4 | 0.8 | 4 | C |
| 6 | 463 | 8.4 | 115 | C | 23.9 | -8 | 123 | -11.0 | 16.6 | -4.3 | 12 | C |
| 7 | 450 | 6.1 | 133 | C | 22.2 | 0 | 129 | -11.9 | 14.4 | -1.9 | 11 | C |
| 8 | 515 | 6.3 | 296 | C | 20.1 | -13 | 127 | -11.1 | 13.5 | -7.0 | 5 | C |
| 9 | 611 | 4.6 | 349 | C | 22.3 | 9 | 131 | -14.1 | 16.6 | -0.3 | 4 | J |
| 10 | 661 | 5.3 | 396 | C | 19.3 | 2 | 146 | -15.2 | 10.1 | -1.8 | 6 | J |
| 11 | 704 | 5.7 | 540 | C | 18.2 | 11 | 145 | -13.3 | 9.8 | 0.8 | 7 | J |
| 12 | 657 | 4.8 | 441 | C | 17.5 | -21 | 101 | -2.8 | 12.7 | -8.8 | 7 | J |
| 13 | 670 | 5.0 | 432 | C | 16.1 | -29 | 107 | -3.6 | 10.1 | -9.1 | 7 | J |
| 14 | 641 | 4.7 | 395 | C | 14.5 | -14 | 127 | -7.7 | 9.5 | -4.9 | 6 | J |
| 15 | 645 | 4.0 | 361 | C | 12.4 | -20 | 121 | -5.5 | 8.6 | -5.1 | 5 | J |
| 16 | 639 | 4.9 | 462 | L | 11.2 | -23 | 113 | -3.7 | 8.4 | -4.7 | 4 | J |
| 17 | 628 | 4.9 | 443 | L | 10.6 | -37 | 155 | -7.2 | 3.2 | -6.1 | 3 | J |
| 18 | 621 | 3.8 | 336 | L | 11.0 | -39 | 134 | -5.2 | 5.5 | -5.9 | 5 | J |
| 19 | 594 | 4.4 | 257 | L | 10.7 | -30 | 156 | -7.7 | 3.8 | -4.6 | 4 | J |
| 20 | 635 | 4.4 | 337 | L | 10.6 | -21 | 106 | -2.3 | 8.5 | -2.3 | 5 | J |
| 21 | 593 | 4.8 | 248 | L | 10.3 | -19 | 125 | -5.3 | 7.9 | -2.0 | 3 | J |
| 22 | 600 | 5.8 | 313 | L | 9.7 | -20 | 109 | -2.6 | 8.0 | -1.5 | 4 | J |
| 23 | 583 | 5.8 | 329 | L | 8.5 | -20 | 119 | -3.2 | 6.1 | -1.2 | 5 | J |
| 24 | 590 | 6.0 | 269 | L | 9.3 | -29 | 114 | -3.0 | 7.4 | -2.7 | 4 | J |

### DEC. 19, 1978 353

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 564 | 6.8 | 292 | L | 9.4 | -20 | 131 | -4.9 | 6.1 | -1.7 | 5 | J |
| 2 | 611 | 5.0 | 209 | L | 8.1 | -28 | 133 | -3.7 | 4.4 | -2.3 | 5 | J |
| 3 | 630 | 4.3 | 184 | L | 6.9 | -1 | 124 | -3.0 | 4.5 | 0.4 | 4 | J |
| 4 | 618 | 4.6 | 180 | L | 6.3 | -5 | 198 | -5.5 | -1.8 | -0.6 | 2 | J |
| 5 | 603 | 5.2 | 187 | L | 6.5 | -4 | 184 | -5.7 | -0.4 | -0.4 | 3 | J |
| 6 | 604 | 4.6 | 181 | L | 6.3 | -18 | 140 | -3.9 | 3.2 | -1.9 | 3 | J |
| 7 | 639 | 5.3 | 219 | L | 6.9 | -8 | 113 | -2.1 | 4.9 | -1.4 | 4 | J |
| 8 | 626 | 4.8 | 208 | L | 6.8 | -13 | 135 | -2.8 | 2.6 | -1.4 | 5 | J |
| 9 | 606 | 4.8 | 184 | L | 6.5 | -22 | 177 | -4.1 | -0.1 | -1.7 | 5 | J |
| 10 | 585 | 4.5 | 180 | L | 6.5 | -10 | 151 | -4.0 | 2.0 | -1.3 | 5 | J |
| 11 | 571 | 3.9 | 156 | L | 6.9 | -7 | 170 | -5.8 | 0.8 | -0.9 | 3 | J |
| 12 | 561 | 4.0 | 146 | L | 7.1 | 4 | 163 | -5.9 | 1.9 | 0.0 | 3 | J |
| 13 | 579 | 4.1 | 184 | L | 7.3 | -12 | 138 | -4.5 | 3.7 | -2.1 | 4 | J |
| 14 | 643 | 3.7 | 253 | L | 7.1 | -51 | 117 | -1.7 | 2.5 | -5.0 | 4 | J |
| 15 | 619 | 3.7 | 259 | L | 7.3 | -42 | 134 | -3.0 | 2.6 | -4.3 | 4 | J |
| 16 | 568 | 3.1 | 179 | L | 6.7 | 5 | 159 | -5.5 | 2.1 | 0.4 | 3 | J |
| 17 | 618 | 3.0 | 186 | C | 6.1 | -19 | 140 | -3.8 | 3.1 | -1.8 | 2 | C |
| 18 | 638 | 3.5 | 249 | L | 6.4 | -32 | 109 | -1.6 | 4.7 | -2.9 | 3 | J |
| 19 | 638 | 3.4 | 242 | L | 5.9 | -22 | 127 | -2.5 | 3.5 | -1.4 | 4 | J |
| 20 | 646 | 3.6 | 247 | L | 6.2 | -16 | 133 | -3.5 | 3.9 | -1.0 | 3 | J |
| 21 | 657 | 4.3 | 283 | L | 5.4 | 9 | 164 | -4.4 | 1.1 | 0.9 | 3 | J |
| 22 | 650 | 3.9 | 223 | L | 6.0 | 25 | 191 | -4.6 | -1.3 | 2.0 | 3 | J |
| 23 | 649 | 3.4 | 151 | C | 6.7 | 44 | 176 | -4.3 | -0.5 | 4.1 | 2 | C |
| 24 | 626 | 3.7 | 188 | L | 6.3 | -14 | 182 | -5.7 | 0.1 | -1.4 | 2 | J |

### DEC. 20, 1978 354

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 648 | 4.2 | 270 | L | 4.5 | -9 | 174 | -3.6 | 0.5 | -0.5 | 3 | J |
| 2 | 658 | 4.6 | 266 | L | 4.9 | -29 | 160 | -3.1 | 1.4 | -1.6 | 3 | J |
| 3 | 651 | 4.8 | 261 | L | 4.7 | -25 | 176 | -3.3 | 0.4 | -1.5 | 3 | J |
| 4 | 652 | 5.1 | 238 | L | 5.2 | 2 | 150 | -3.3 | 1.9 | 0.2 | 4 | J |
| 5 | 662 | 5.1 | 235 | L | 5.5 | -34 | 115 | -1.6 | 3.5 | -2.7 | 3 | J |
| 6 | 631 | 4.1 | 215 | L | 6.1 | -8 | 135 | -3.3 | 3.2 | -0.9 | 4 | J |
| 7 | 636 | 4.0 | 216 | L | 6.1 | -23 | 125 | -2.3 | 3.1 | -2.1 | 4 | J |
| 8 | 643 | 4.6 | 232 | L | 6.5 | -48 | 141 | -2.7 | 1.5 | -4.2 | 4 | J |
| 9 | 636 | 5.0 | 201 | L | 6.8 | -7 | 127 | -3.2 | 4.1 | -1.5 | 4 | J |
| 10 | 674 | 5.2 | 223 | L | 6.8 | -21 | 113 | -1.6 | 3.3 | -2.4 | 5 | J |
| 11 | 654 | 5.4 | 235 | L | 6.4 | 5 | 116 | -2.1 | 4.3 | -0.6 | 4 | J |
| 12 | 679 | 5.5 | 226 | L | 6.1 | -36 | 85 | 0.4 | 3.4 | -3.9 | 3 | J |
| 13 | 668 | 5.4 | 195 | L | 6.2 | -18 | 102 | -1.1 | 4.9 | -2.8 | 2 | J |
| 14 | 656 | 5.1 | 181 | L | 5.6 | -22 | 116 | -1.8 | 3.4 | -2.2 | 3 | J |
| 15 | 660 | 5.5 | 203 | L | 5.4 | -65 | 179 | -1.8 | -0.4 | -3.8 | 3 | J |
| 16 | 635 | 5.9 | 201 | L | 6.1 | -56 | 141 | -2.0 | 1.4 | -3.9 | 4 | J |
| 17 | 643 | 5.6 | 189 | L | 5.8 | 29 | 211 | -3.1 | -1.9 | 2.1 | 4 | J |
| 18 | 633 | 5.4 | 159 | L | 5.7 | 20 | 175 | -5.0 | 0.4 | 1.8 | 2 | J |
| 19 | 621 | 5.2 | 142 | L | 5.6 | 12 | 184 | -5.2 | -0.5 | 1.1 | 2 | J |
| 20 | 658 | 4.2 | 212 | L | 5.0 | -39 | 76 | 0.5 | 2.3 | -1.5 | 4 | J |
| 21 | 660 | 4.0 | 208 | L | 4.5 | -45 | 79 | 0.5 | 3.1 | -2.2 | 3 | J |
| 22 | 639 | 4.0 | 187 | L | 4.4 | -44 | 116 | -1.2 | 2.9 | -2.1 | 2 | J |
| 23 | 632 | 4.4 | 192 | L | 4.0 | 4 | 176 | -3.5 | 0.2 | 0.3 | 2 | J |
| 24 | 635 | 4.2 | 190 | L | 3.8 | 10 | 183 | -3.0 | -0.3 | 0.5 | 2 | J |

### DEC. 21, 1978 355

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 627 | 3.9 | 166 | L | 3.4 | -49 | 140 | -1.5 | 1.7 | -2.0 | 2 | J |
| 2 | 629 | 3.7 | 153 | L | 3.3 | -69 | 143 | -0.9 | 1.1 | -2.7 | 1 | J |
| 3 | 596 | 3.5 | 142 | L | 3.9 | -48 | 143 | -1.8 | 1.7 | -2.3 | 2 | J |
| 4 | 587 | 3.5 | 137 | L | 3.9 | -36 | 131 | -1.9 | 2.3 | -2.0 | 1 | J |
| 5 | 578 | 3.5 | 138 | L | 4.0 | -34 | 131 | -1.9 | 2.2 | -2.0 | 2 | J |
| 6 | 572 | 3.4 | 126 | L | 3.7 | -58 | 129 | -1.1 | 1.2 | -3.0 | 1 | J |
| 7 | 574 | 3.6 | 136 | L | 3.7 | -35 | 102 | -0.5 | 2.2 | -2.0 | 2 | J |
| 8 | 559 | 3.7 | 128 | L | 3.7 | 2 | 136 | -2.4 | 2.3 | -0.3 | 1 | J |
| 9 | 544 | 3.7 | 105 | L | 4.0 | -5 | 161 | -2.8 | 0.9 | -0.4 | 3 | J |
| 10 | 561 | 3.8 | 98 | L | 3.8 | -13 | 72 | 1.0 | 2.9 | -1.4 | 2 | J |
| 11 | 562 | 4.3 | 77 | L | 4.2 | 32 | 51 | 2.1 | 3.0 | 1.5 | 1 | J |
| 12 | 532 | 3.6 | 78 | C | 3.9 | -27 | 102 | -0.7 | 2.7 | -2.2 | 1 | C |
| 13 | 539 | 4.2 | 81 | L | 4.0 | 36 | 73 | 0.9 | 3.4 | 1.7 | 1 | J |
| 14 | 531 | 5.2 | 94 | L | 3.0 | 31 | 110 | -0.5 | 1.4 | 0.6 | 3 | J |
| 15 | 532 | 5.6 | 84 | L | 3.7 | 64 | 227 | -1.0 | -0.7 | 3.0 | 2 | J |
| 16 | 514 | 5.5 | 91 | L | 3.8 | -7 | 168 | -3.2 | 0.7 | -0.4 | 2 | J |
| 17 | 516 | 5.9 | 101 | L | 3.3 | -32 | 198 | -2.3 | -0.8 | -1.5 | 2 | J |
| 18 | 523 | 6.0 | 112 | L | 2.2 | -39 | 62 | 0.5 | 1.0 | -0.8 | 2 | J |
| 19 | 509 | 5.3 | 114 | L | 3.0 | 29 | 142 | -1.6 | 1.1 | 1.2 | 2 | J |
| 20 | 502 | 5.3 | 113 | L | 2.6 | -3 | 52 | 1.2 | 1.6 | 0.1 | 2 | J |
| 21 | 500 | 5.5 | 107 | L | 2.7 | 23 | 71 | 0.7 | 1.9 | 1.3 | 1 | J |
| 22 | 492 | 4.5 | 77 | C | 2.8 | 22 | 48 | 1.6 | 1.5 | 1.3 | 1 | C |
| 23 | 505 | 7.6 | 129 | L | 3.3 | 11 | 35 | 2.6 | 1.6 | 1.0 | 1 | J |
| 24 | 511 | 7.9 | 95 | C | 3.9 | -21 | 62 | 1.2 | 2.4 | -0.5 | 3 | C |

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OF POOR QUALITY

DEC. 22, 1978 356

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 513 | 5.9 | 86 | C | 3.1 | 11 | 51 | 1.4 | 1.6 | 0.8 | 2 | C |
| 2 | 515 | 11.1 | 73 | C | 6.1 | -4 | 109 | -1.4 | 4.0 | 0.4 | 4 | C |
| 3 | 508 | 8.3 | 62 | C | 8.9 | -9 | 117 | -3.8 | 7.5 | -0.4 | 2 | C |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  | 14.7 | 66 | 89 | 0.1 | 6.5 | 12.8 | 3 | J |
| 7 | 512 | 15.9 | 65 | C | 14.3 | 55 | 95 | -0.6 | 8.1 | 9.2 | 7 | J |
| 8 | 520 | 11.9 | 172 | C | 12.0 | 26 | 96 | -0.9 | 9.2 | 2.8 | 7 | J |
| 9 | 544 | 8.9 | 411 | L | 10.1 | 18 | 99 | -1.4 | 9.0 | 1.2 | 4 | J |
| 10 | 543 | 7.3 | 396 | L | 9.2 | 26 | 87 | 0.4 | 7.9 | 2.0 | 4 | J |
| 11 | 525 | 15.4 | 219 | L | 8.3 | -32 | 111 | -2.0 | 4.3 | -4.5 | 5 | J |
| 12 | 527 | 12.4 | 232 | L | 7.2 | -34 | 81 | 0.8 | 4.0 | -4.1 | 4 | J |
| 13 | 539 | 9.6 | 247 | L | 9.1 | -12 | 48 | 5.5 | 5.7 | -2.8 | 3 | J |
| 14 | 515 | 11.1 | 246 | L | 5.9 | 44 | 57 | 1.8 | 3.3 | 2.8 | 4 | J |
| 15 | 517 | 8.7 | 205 | L | 8.4 | -27 | 54 | 4.2 | 5.4 | -4.2 | 3 | J |
| 16 | 543 | 8.8 | 199 | L | 6.8 | -47 | 113 | -1.1 | 2.5 | -3.2 | 6 | J |
| 17 | 566 | 6.1 | 183 | L | 5.2 | -4 | 157 | -4.4 | 1.9 | -0.3 | 2 | J |
| 18 | 549 | 6.5 | 160 | L | 4.7 | -15 | 86 | 0.3 | 3.8 | -0.8 | 3 | J |
| 19 | 529 | 6.4 | 152 | L | 5.2 | -3 | 129 | -2.5 | 3.1 | 0.1 | 3 | J |
| 20 | 542 | 5.9 | 132 | L | 4.4 | -6 | 29 | 3.4 | 1.9 | -0.1 | 2 | J |
| 21 | 516 | 5.8 | 132 | L | 4.3 | 5 | 52 | 2.2 | 2.7 | 0.8 | 2 | J |
| 22 | 510 | 6.3 | 129 | L | 4.1 | 19 | 96 | -0.3 | 2.9 | 1.7 | 2 | J |
| 23 | 519 | 5.9 | 132 | L | 4.6 | -7 | 43 | 3.1 | 3.0 | 0.1 | 2 | J |
| 24 | 512 | 5.5 | 135 | L | 3.7 | -23 | 75 | 0.6 | 2.3 | -0.4 | 3 | J |

DEC. 23, 1978 357

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 516 | 5.3 | 149 | L | 3.9 | -13 | 89 | 0.1 | 3.5 | -0.1 | 2 | J |
| 2 | 494 | 4.5 | 84 | C | 5.0 | -6 | 154 | -3.7 | 1.9 | -0.1 | 3 | C |
| 3 | 512 | 4.0 | 63 | C | 5.4 | -25 | 49 | 2.5 | 3.0 | -1.3 | 3 | C |
| 4 | 508 | 3.8 | 71 | C | 4.7 | -39 | 62 | 1.6 | 3.1 | -2.4 | 2 | C |
| 5 | 496 | 3.3 | 65 | C | 4.4 | -34 | 78 | 0.7 | 3.2 | -2.1 | 2 | C |
| 6 | 523 | 3.7 | 60 | C | 4.5 | 9 | 27 | 3.9 | 2.0 | 0.6 | 1 | C |
| 7 | 519 | 3.4 | 62 | C | 5.1 | -1 | 25 | 4.5 | 2.1 | -0.3 | 1 | C |
| 8 | 512 | 3.4 | 66 | C | 5.3 | -3 | 13 | 5.1 | 1.2 | -0.5 | 1 | C |
| 9 | 508 | 3.5 | 63 | C | 5.2 | -6 | 343 | 4.9 | -1.6 | -0.2 | 1 | C |
| 10 | 501 | 3.9 | 66 | C | 4.3 | -6 | 21 | 2.9 | 1.0 | -0.5 | 3 | C |
| 11 | 487 | 3.4 | 61 | C | 3.8 | 6 | 76 | 0.8 | 3.2 | -0.3 | 2 | C |
| 12 | 468 | 2.9 | 75 | C | 3.7 | 21 | 155 | -3.1 | 1.7 | 1.0 | 0 | C |
| 13 | 469 | 2.7 | 75 | C | 3.4 | -6 | 153 | -2.9 | 1.4 | -0.6 | 1 | C |
| 14 | 462 | 3.1 | 80 | C | 2.9 | 1 | 152 | -2.3 | 1.2 | -0.1 | 1 | C |
| 15 | 463 | 3.2 | 71 | C | 3.5 | -6. | 140 | -2.6 | 2.1 | -0.6 | 1 | C |
| 16 | 465 | 3.9 | 88 | L | 3.6 | -37 | 113 | -1.0 | 2.3 | -2.0 | 2 | J |
| 17 | 458 | 3.8 | 66 | C | 3.9 | -22 | 111 | -1.2 | 3.2 | -1.3 | 1 | C |
| 18 | 470 | 3.3 | 78 | L | 4.7 | -37 | 25 | 3.3 | 1.7 | -2.6 | 1 | J |
| 19 | 457 | 4.0 | 93 | L | 3.9 | 3 | 90 | 0.0 | 2.9 | 0.5 | 3 | J |
| 20 | 450 | 3.4 | 98 | L | 4.1 | -16 | 94 | -0.3 | 3.8 | -0.5 | 2 | J |
| 21 | 446 | 3.1 | 93 | L | 4.2 | 12 | 125 | -2.2 | 2.9 | 1.4 | 2 | J |
| 22 | 445 | 2.6 | 93 | L | 4.0 | 38 | 172 | -3.0 | -0.1 | 2.4 | 1 | J |
| 23 | 442 | 2.6 | 89 | L | 3.7 | 41 | 197 | -2.5 | -1.3 | 2.1 | 1 | J |
| 24 | 436 | 2.6 | 100 | L | 3.2 | 11 | 180 | -2.9 | -0.1 | 0.6 | 1 | J |

DEC. 24, 1978 358

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 453 | 3.5 | 127 | L | 4.3 | 24 | 167 | -3.7 | 0.5 | 1.9 | 1 | J |
| 2 | 489 | 4.3 | 93 | C | 4.4 | 33 | 166 | -3.4 | 0.4 | 2.4 | 1 | C |
| 3 | 472 | 4.4 | 74 | C | 5.1 | 7 | 162 | -4.7 | 1.4 | 0.8 | 1 | C |
| 4 | 463 | 4.3 | 71 | C | 5.3 | -13 | 170 | -5.0 | 1.0 | -1.1 | 0 | C |
| 5 | 459 | 4.3 | 63 | C | 5.4 | -6 | 167 | -5.2 | 1.2 | -0.6 | 1 | C |
| 6 | 448 | 4.1 | 50 | C | 5.7 | -12 | 171 | -5.5 | 0.8 | -1.2 | 0 | C |
| 7 | 452 | 4.8 | 68 | C | 5.0 | -11 | 179 | -4.9 | -0.0 | -0.9 | 1 | C |
| 8 | 443 | 5.1 | 63 | C | 4.6 | -15 | 191 | -4.1 | -0.9 | -1.0 | 2 | C |
| 9 | 437 | 5.4 | 55 | C | 4.0 | -21 | 145 | -2.7 | 1.7 | -1.6 | 2 | C |
| 10 | 426 | 5.7 | 51 | C | 3.4 | -26 | 103 | -0.7 | 2.6 | -2.0 | 1 | J |
| 11 | 422 | 7.4 | 88 | L | 3.5 | -21 | 111 | -1.0 | 2.4 | -1.6 | 2 | J |
| 12 | 423 | 7.8 | 87 | L | 3.7 | -11 | 143 | -2.5 | 1.7 | -1.0 | 2 | J |
| 13 | 423 | 6.1 | 73 | L | 4.9 | 18 | 173 | -4.3 | 0.8 | 1.3 | 2 | J |
| 14 | 422 | 5.4 | 51 | L | 5.1 | 27 | 158 | -4.1 | 2.0 | 2.0 | 1 | J |
| 15 | 422 | 6.1 | 49 | L | 5.1 | 12 | 139 | -3.5 | 3.1 | 0.7 | 2 | J |
| 16 | 410 | 3.0 | 88 | L | 5.4 | 10 | 125 | -3.0 | 4.3 | 0.8 | 1 | J |
| 17 | 397 | 2.1 | 123 | L | 5.4 | 9 | 118 | -2.5 | 4.7 | 0.9 | 0 | J |
| 18 | 406 | 2.2 | 96 | L | 5.3 | 10 | 110 | -1.5 | 4.2 | 1.1 | 2 | J |
| 19 | 380 | 1.6 | 94 | L | 5.8 | 4 | 108 | -1.8 | 5.3 | 1.0 | 1 | J |
| 20 | 372 | 1.6 | 22 | L | 5.9 | -24 | 117 | -2.4 | 5.1 | -1.6 | 0 | J |
| 21 | 370 | 1.6 | 26 | L | 6.0 | -25 | 114 | -2.1 | 5.2 | -1.5 | 1 | J |
| 22 | 381 | 1.7 | 20 | L | 6.1 | -21 | 101 | -1.1 | 5.9 | -0.9 | 1 | J |
| 23 | 383 | 2.1 | 33 | L | 6.2 | -11 | 94 | -0.4 | 6.1 | 0.3 | 1 | J |
| 24 | 375 | 2.3 | 19 | L | 6.9 | -18 | 96 | -0.7 | 6.7 | -0.5 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 3.2 | 19 | L | 8.1 | -26 | 108 | -2.1 | 7.0 | -1.8 | 3 | J |
| 2 | 375 | 3.4 | 36 | L | 7.9 | -53 | 126 | -2.7 | 4.8 | -5.2 | 2 | J |
| 3 | 388 | 5.6 | 58 | L | 6.8 | -53 | 153 | -3.5 | 2.5 | -4.9 | 2 | J |
| 4 | 398 | 11.4 | 30 | L | 5.7 | 24 | 91 | -0.1 | 4.5 | 2.6 | 2 | J |
| 5 | 398 | 16.7 | 22 | L | 5.1 | 31 | 80 | 0.7 | 3.9 | 2.6 | 2 | J |
| 6 | 397 | 15.4 | 20 | L | 6.0 | 26 | 87 | 0.2 | 4.5 | 2.1 | 3 | J |
| 7 | 385 | 17.5 | 19 | C | 6.8 | 20 | 87 | 0.3 | 6.3 | 1.7 | 1 | C |
| 8 | 385 | 19.5 | 17 | C | 6.1 | -13 | 68 | 2.2 | 5.0 | -2.0 | 2 | C |
| 9 | 383 | 21.0 | 18 | C | 5.6 | -46 | 73 | 1.1 | 2.9 | -4.5 | 1 | C |
| 10 | 374 | 18.9 | 17 | C | 6.2 | -39 | 63 | 2.1 | 3.3 | -4.4 | 2 | C |
| 11 | 363 | 10.5 | 39 | L | 6.7 | -55 | 83 | 0.5 | 2.7 | -6.0 | 1 | J |
| 12 | 368 | 10.7 | 32 | L | 6.7 | -68 | 35 | 1.4 | 0.2 | -4.4 | 5 | J |
| 13 | 416 | 37.1 | 64 | L | 12.3 | -24 | 304 | 4.3 | -6.8 | -2.4 | 9 | J |
| 14 | 432 | 26.3 | 79 | L | 16.3 | -85 | 128 | -0.8 | -0.9 | -15.5 | 6 | J |
| 15 | 441 | 10.4 | 48 | C | 16.9 | -68 | 179 | -5.8 | -1.1 | -14.2 | 7 | J |
| 16 | 448 | 7.6 | 180 | C | 16.6 | -22 | 153 | -13.7 | 6.8 | -6.4 | 0 | J |
| 17 | 436 | 6.9 | 265 | C | 3.9 | 15 | 110 | -1.1 | 2.9 | 0.9 | 2 | J |
| 18 | 456 | 7.4 | 228 | C | 7.5 | 17 | 49 | 2.6 | 2.9 | 1.4 | 6 | J |
| 19 | 421 | 6.7 | 98 | C | 9.8 | 29 | 131 | -2.8 | 2.9 | 2.8 | 9 | C |
| 20 | 414 | 8.6 | 28 | C | 12.6 | 17 | 131 | -7.8 | 8.3 | 5.1 | 1 | C |
| 21 | 408 | 7.1 | 92 | C | 9.6 | 22 | 116 | -3.7 | 6.7 | 4.9 | 4 | C |
| 22 | 452 | 6.8 | 246 | C | 5.7 | 18 | 70 | 1.5 | 3.8 | 2.4 | 3 | C |
| 23 | 427 | 6.1 | 274 | C | 5.0 | -20 | 109 | -1.3 | 4.0 | -0.5 | 2 | C |
| 24 | 400 | 6.5 | 162 | C | 6.7 | -4 | 117 | -2.9 | 5.6 | 1.0 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 393 | 6.1 | 49 | C | 11.3 | -9 | 118 | -5.1 | 9.6 | 0.6 | 3 | C |
| 2 | 380 | 6.4 | 53 | C | 10.5 | -8 | 118 | -4.8 | 9.3 | 0.3 | 1 | C |
| 3 | 363 | 5.5 | 43 | C | 10.1 | -12 | 126 | -5.7 | 8.1 | -0.8 | 1 | C |
| 4 | 366 | 5.6 | 49 | C | 9.6 | -10 | 129 | -5.9 | 7.5 | -0.8 | 1 | C |
| 5 | 359 | 5.7 | 41 | C | 9.0 | -15 | 126 | -5.0 | 6.9 | -2.0 | 2 | C |
| 6 | 358 | 6.0 | 39 | C | 8.5 | -8 | 118 | -3.9 | 7.3 | -1.3 | 1 | C |
| 7 | 357 | 5.7 | 40 | C | 8.5 | -11 | 120 | -4.2 | 7.0 | -2.2 | 1 | C |
| 8 | 364 | 5.0 | 45 | C | 8.8 | -24 | 125 | -4.5 | 6.0 | -4.3 | 2 | C |
| 9 | 403 | 5.0 | 69 | C | 8.9 | -37 | 158 | -5.7 | 1.6 | -5.0 | 4 | C |
| 10 | 416 | 6.4 | 64 | C | 8.1 | -16 | 120 | -3.1 | 5.0 | -2.8 | 5 | C |
| 11 | 417 | 7.1 | 84 | C | 7.9 | 10 | 119 | -3.4 | 6.3 | 0.1 | 3 | C |
| 12 | 453 | 5.0 | 79 | C | 8.7 | 16 | 241 | -3.5 | -6.0 | 3.1 | 4 | C |
| 13 | 429 | 3.7 | 130 | C | 7.3 | 13 | 130 | -3.7 | 4.5 | 0.6 | 4 | C |
| 14 | 398 | 3.3 | 110 | C | 8.0 | -1 | 136 | -5.7 | 5.5 | -0.7 | 1 | C |
| 15 | 412 | 3.1 | 120 | C | 8.0 | -2 | 121 | -4.1 | 6.7 | -0.8 | 1 | C |
| 16 | 401 | 3.8 | 96 | C | 8.0 | -3 | 125 | -4.5 | 6.5 | -0.6 | 1 | C |
| 17 | 378 | 4.4 | 83 | C | 7.6 | -9 | 125 | -4.2 | 6.1 | -1.0 | 1 | C |
| 18 | 381 | 4.1 | 92 | C | 7.0 | -12 | 114 | -2.7 | 6.2 | -0.9 | 1 | C |
| 19 | 389 | 5.3 | 86 | C | 6.7 | 0 | 130 | -4.1 | 5.0 | 0.7 | 1 | C |
| 20 | 396 | 4.6 | 93 | C | 7.3 | -23 | 133 | -4.3 | 5.1 | -1.9 | 2 | C |
| 21 | 402 | 5.0 | 97 | C | 8.3 | 0 | 131 | -5.3 | 5.9 | 1.3 | 2 | C |
| 22 | 392 | 5.9 | 91 | C | 8.8 | 26 | 128 | -4.7 | 5.0 | 5.1 | 2 | C |
| 23 | 409 | 5.7 | 113 | C | 9.3 | 8 | 131 | -5.3 | 5.6 | 2.7 | 4 | C |
| 24 | 417 | 4.3 | 104 | C | 9.8 | -37 | 131 | -4.8 | 6.6 | -3.8 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 3.6 | 100 | C | 9.5 | -50 | 145 | -4.9 | 5.1 | -6.2 | 1 | C |
| 2 | 407 | 3.7 | 97 | C | 9.2 | -46 | 157 | -5.8 | 3.8 | -5.9 | 1 | C |
| 3 | 434 | 4.0 | 113 | C | 8.0 | -46 | 141 | -4.1 | 4.2 | -4.8 | 3 | C |
| 4 | 451 | 5.0 | 150 | C | 6.7 | -31 | 99 | -0.8 | 5.8 | -2.6 | 2 | C |
| 5 | 400 | 2.5 | 85 | C | 9.2 | -50 | 158 | -5.4 | 2.5 | -6.8 | 1 | C |
| 6 | 383 | 2.5 | 67 | C | 8.9 | -42 | 141 | -5.0 | 4.1 | -6.0 | 1 | C |
| 7 | 381 | 2.1 | 74 | C | 8.5 | -36 | 148 | -5.8 | 3.3 | -5.2 | 1 | C |
| 8 | 399 | 2.2 | 88 | C | 8.1 | -38 | 154 | -5.7 | 2.2 | -5.2 | 1 | C |
| 9 | 394 | 2.5 | 100 | C | 8.0 | -38 | 191 | -6.0 | -1.9 | -4.5 | 2 | C |
| 10 | 390 | 2.0 | 89 | C | 8.4 | -22 | 151 | -6.7 | 3.1 | -3.7 | 1 | C |
| 11 | 391 | 2.2 | 90 | C | 8.3 | 4 | 139 | -5.9 | 5.1 | -0.4 | 3 | C |
| 12 |  |  |  |  | 7.9 | 4 | 104 | -1.9 | 7.6 | -0.7 | 0 | C |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 403 | 7.9 | 19 | C | 4.7 | -46 | 104 | -0.8 | 3.3 | -3.2 | 0 | C |
| 18 | 441 | 5.8 | 20 | C | 5.2 | -42 | 110 | -1.3 | 3.8 | -3.1 | 1 | C |
| 19 |  |  |  |  | 5.7 | -44 | 90 | 0.0 | 4.6 | -3.4 | 0 | C |
| 20 | 401 | 6.3 | 28 | C | 5.8 | -35 | 100 | -0.8 | 5.1 | -2.4 | 1 | C |
| 21 | 392 | 6.7 | 30 | C | 5.8 | -26 | 113 | -2.0 | 5.2 | -1.4 | 1 | C |
| 22 | 395 | 7.4 | 30 | C | 5.9 | -6 | 102 | -1.2 | 5.6 | 0.8 | 1 | C |
| 23 | 388 | 7.2 | 37 | C | 5.8 | -9 | 128 | -3.5 | 4.5 | 0.3 | 1 | C |
| 24 | 384 | 7.4 | 39 | C | 6.1 | -14 | 140 | -4.5 | 4.0 | -0.4 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 8.1 | 35 | C | 6.2 | -13 | 131 | -3.9 | 4.7 | -0.2 | 1 | C |
| 2 | 391 | 8.7 | 34 | C | 6.3 | 6 | 131 | -4.1 | 4.4 | 1.7 | 1 | C |
| 3 | 390 | 9.5 | 33 | C | 6.1 | -6 | 138 | -4.5 | 4.1 | 0.1 | 0 | C |
| 4 | 385 | 18.7 | 17 | C | 4.0 | 26 | 327 | 1.4 | -1.0 | 0.7 | 4 | C |
| 5 | 378 | 17.7 | 18 | C | 5.5 | 17 | 316 | 3.6 | -3.6 | 1.4 | 2 | C |
| 6 | 381 | 10.5 | 26 | C | 7.9 | 25 | 315 | 4.7 | -4.7 | 3.2 | 3 | C |
| 7 | 429 | 4.2 | 68 | C | 9.5 | -2 | 321 | 7.4 | -6.0 | 0.1 | 1 | C |
| 8 | 399 | 6.0 | 82 | C | 8.1 | 16 | 332 | 6.1 | -3.0 | 2.4 | 3 | C |
| 9 | 409 | 5.0 | 67 | C | 9.0 | 10 | 333 | 7.6 | -3.6 | 2.1 | 2 | C |
| 10 | 412 | 5.4 | 74 | C | 9.1 | 7 | 325 | 7.3 | -4.8 | 1.9 | 1 | C |
| 11 | 405 | 5.2 | 75 | C | 9.5 | 8 | 328 | 7.9 | -4.6 | 2.2 | 1 | C |
| 12 | 409 | 5.4 | 72 | C | 9.9 | -4 | 329 | 8.3 | -5.1 | 0.2 | 2 | C |
| 13 | 433 | 5.7 | 88 | C | 10.3 | -5 | 319 | 6.9 | -6.1 | 0.0 | 4 | C |
| 14 | 453 | 4.2 | 90 | C | 11.7 | -2 | 314 | 7.9 | -8.0 | 0.3 | 2 | C |
| 15 | 464 | 4.2 | 78 | C | 12.2 | -1 | 317 | 8.8 | -8.2 | 0.4 | 2 | C |
| 16 | 447 | 4.2 | 97 | C | 11.6 | -28 | 339 | 8.4 | -3.3 | -4.7 | 5 | C |
| 17 | 432 | 5.2 | 108 | C | 10.9 | -55 | 356 | 6.0 | -0.1 | -8.7 | 2 | C |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  | 10.4 | 17 | 312 | 6.6 | -7.7 | 2.0 | 0 | C |
| 20 | 440 | 6.3 | 99 | C | 10.2 | 2 | 317 | 7.2 | -6.6 | -0.9 | 2 | C |
| 21 | 433 | 6.6 | 93 | C | 9.6 | -14 | 338 | 8.4 | -2.8 | -3.0 | 2 | C |
| 22 | 434 | 7.0 | 92 | C | 10.1 | -17 | 21 | 8.8 | 3.9 | -2.0 | 2 | C |
| 23 | 446 | 10.2 | 100 | C | 9.9 | -3 | 25 | 8.6 | 4.1 | 0.6 | 2 | C |
| 24 | 432 | 7.3 | 108 | C | 10.8 | 15 | 28 | 9.0 | 3.9 | 3.9 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 426 | 7.1 | 95 | C | 11.2 | 19 | 350 | 10.2 | -2.6 | 2.9 | 2 | C |
| 2 | 450 | 7.8 | 126 | C | 12.1 | 19 | 333 | 9.1 | -5.4 | 2.4 | 5 | C |
| 3 | 434 | 7.8 | 127 | C | 12.9 | 18 | 347 | 11.0 | -3.1 | 3.1 | 4 | C |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 446 | 9.0 | 164 | C | 13.0 | 45 | 42 | 6.3 | 6.0 | 8.0 | 5 | C |
| 8 | 432 | 9.0 | 172 | C | 12.8 | 38 | 346 | 8.2 | -1.4 | 6.8 | 6 | C |
| 9 | 437 | 8.7 | 175 | C | 13.3 | 7 | 304 | 6.9 | -9.9 | 3.0 | 4 | C |
| 10 | 433 | 8.4 | 180 | C | 14.3 | 16 | 311 | 7.9 | -8.5 | 4.9 | 6 | C |
| 11 | 453 | 7.2 | 153 | C | 16.3 | -10 | 279 | 2.6 | -15.7 | -0.2 | 3 | C |
| 12 | 471 | 5.8 | 158 | C | 16.6 | -5 | 302 | 8.2 | -13.3 | 0.7 | 5 | C |
| 13 | 482 | 7.2 | 229 | C | 14.4 | 16 | 319 | 9.6 | -7.9 | 4.7 | 5 | C |
| 14 | 500 | 7.0 | 245 | C | 12.1 | 6 | 309 | 6.4 | -7.8 | 1.8 | 5 | C |
| 15 | 523 | 7.5 | 261 | C | 10.5 | -28 | 303 | 3.7 | -5.8 | -3.3 | 6 | C |
| 16 | 519 | 6.7 | 215 | C | 8.9 | -5 | 321 | 4.7 | -3.8 | -0.5 | 5 | C |
| 17 | 557 | 6.6 | 207 | C | 8.4 | -62 | 45 | 1.7 | 1.9 | -4.4 | 6 | C |
| 18 | 608 | 8.9 | 279 | C | 13.7 | -2 | 314 | 6.2 | -6.4 | -0.9 | 9 | C |
| 19 | 596 | 8.2 | 293 | C | 13.0 | 5 | 320 | 8.3 | -6.9 | -0.0 | 6 | C |
| 20 | 586 | 7.6 | 290 | C | 11.1 | 2 | 310 | 6.3 | -7.4 | -1.1 | 5 | C |
| 21 | 556 | 7.2 | 225 | C | 9.4 | 2 | 311 | 5.1 | -5.7 | -1.1 | 5 | C |
| 22 | 567 | 7.0 | 240 | C | 7.2 | -19 | 291 | 1.7 | -3.9 | -2.8 | 4 | C |
| 23 | 569 | 6.8 | 237 | C | 8.1 | -11 | 305 | 3.2 | -4.0 | -2.3 | 5 | C |
| 24 | 568 | 6.8 | 221 | C | 6.7 | -21 | 359 | 4.5 | 0.4 | -1.6 | 4 | C |

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## DEC. 30, 1978

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 583 | 6.8 | 222 | C | 7.7 | -8 | 316 | 3.9 | -3.5 | -1.7 | 5 | C |
| 2 | 592 | 6.1 | 225 | C | 8.7 | 39 | 319 | 3.9 | -4.3 | 3.3 | 5 | C |
| 3 | 602 | 5.7 | 186 | C | 9.9 | -22 | 306 | 3.5 | -4.3 | -3.3 | 7 | C |
| 4 | 602 | 5.1 | 192 | C | 10.2 | -18 | 314 | 6.2 | -5.9 | -3.8 | 3 | C |
| 5 | 633 | 4.8 | 271 | C | 9.4 | -34 | 320 | 5.0 | -3.9 | -4.7 | 4 | C |
| 6 | 654 | 4.7 | 245 | C | 9.3 | 10 | 309 | 4.5 | -5.7 | 1.2 | 5 | C |
| 7 | 687 | 4.9 | 225 | C | 9.8 | 86 | 343 | 0.7 | 0.2 | 8.9 | 3 | C |
| 8 | 664 | 4.9 | 269 | C | 9.1 | -1 | 296 | 3.2 | -6.4 | 0.5 | 5 | C |
| 9 | 639 | 3.7 | 234 | C | 9.5 | 20 | 324 | 6.7 | -4.5 | 3.7 | 2 | C |
| 10 | 667 | 3.6 | 268 | C | 8.2 | 25 | 322 | 4.8 | -3.3 | 3.3 | 4 | C |
| 11 | 671 | 3.3 | 251 | C | 8.3 | 3 | 12 | 7.1 | 1.6 | 0.2 | 3 | C |
| 12 | 735 | 3.2 | 375 | C | 7.4 | 25 | 298 | 2.4 | -4.1 | 3.0 | 4 | C |
| 13 | 742 | 3.7 | 382 | C | 5.9 | 40 | 359 | 2.5 | 0.2 | 2.1 | 4 | C |
| 14 | 733 | 3.2 | 358 | C | 6.6 | -6 | 293 | 1.8 | -4.2 | -0.1 | 5 | C |
| 15 | 686 | 3.2 | 235 | C | 7.5 | -11 | 314 | 4.6 | -4.8 | -1.1 | 3 | C |
| 16 | 669 | 3.1 | 188 | C | 7.8 | -5 | 314 | 4.7 | -4.9 | -0.6 | 3 | C |
| 17 | 645 | 2.9 | 173 | C | 8.2 | 26 | 352 | 7.0 | -1.2 | 3.4 | 2 | C |
| 18 | 616 | 2.7 | 111 | C | 8.7 | 17 | 346 | 8.0 | -2.3 | 2.3 | 1 | C |
| 19 | 654 | 3.3 | 152 | C | 8.6 | -29 | 337 | 6.6 | -2.1 | -4.4 | 2 | J |
| 20 | 631 | 5.4 | 159 | L | 8.2 | -28 | 320 | 5.3 | -3.6 | -4.5 | 2 | J |
| 21 | 640 | 5.8 | 200 | L | 7.5 | -17 | 319 | 4.8 | -3.6 | -2.9 | 4 | J |
| 22 | 656 | 7.1 | 289 | L | 7.2 | -23 | 330 | 4.5 | -1.9 | -2.8 | 4 | J |
| 23 | 668 | 5.2 | 247 | L | 6.5 | -59 | 31 | 1.9 | 2.2 | -3.3 | 5 | J |
| 24 | 651 | 4.5 | 190 | L | 7.1 | -34 | 322 | 4.0 | -2.0 | -4.1 | 3 | J |

## DEC. 31, 1978

365

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 649 | 4.5 | 239 | L | 7.1 | -34 | 328 | 3.7 | -1.4 | -3.4 | 5 | J |
| 664 | 5.1 | 217 | L | 7.8 | -17 | 307 | 3.8 | -4.4 | -3.1 | 4 | J |
| 640 | 5.0 | 215 | L | 7.6 | 32 | 340 | 4.9 | -2.4 | 2.9 | 4 | J |
| 642 | 5.1 | 201 | L | 7.7 | 40 | 332 | 4.3 | -2.8 | 3.7 | 4 | J |
| 650 | 4.6 | 209 | L | 7.2 | 16 | 304 | 3.3 | -5.1 | 1.3 | 3 | J |
| 672 | 4.6 | 172 | C | 7.4 | 25 | 318 | 3.1 | -2.8 | 1.9 | 5 | C |
| 659 | 5.3 | 201 | L | 7.0 | 54 | 25 | 3.6 | 1.9 | 5.4 | 2 | J |
| 651 | 5.9 | 210 | L | 6.7 | 50 | 13 | 2.9 | 1.0 | 3.5 | 5 | J |
| 661 | 5.9 | 222 | L | 7.0 | 25 | 281 | 0.8 | -3.9 | 2.5 | 5 | J |
| 625 | 5.2 | 239 | L | 6.0 | -7 | 339 | 5.3 | -2.1 | -0.4 | 1 | J |
| 631 | 5.0 | 192 | L | 6.0 | 41 | 3 | 3.2 | 0.6 | 2.8 | 4 | J |
| 602 | 3.8 | 124 | C | 6.8 | -16 | 350 | 5.6 | -1.2 | -1.5 | 3 | C |
| 597 | 3.2 | 134 | C | 7.0 | -16 | 335 | 5.2 | -2.6 | -1.3 | 3 | C |
| 601 | 4.1 | 159 | L | 6.7 | -10 | 334 | 5.0 | -2.5 | -0.8 | 4 | J |
| 599 | 3.5 | 151 | L | 6.5 | -1 | 334 | 5.1 | -2.5 | -0.0 | 3 | J |
| 611 | 3.5 | 164 | L | 6.4 | -7 | 344 | 5.8 | -1.7 | -0.8 | 2 | J |
| 621 | 3.4 | 174 | L | 6.2 | 21 | 15 | 4.8 | 1.2 | 2.0 | 3 | J |
| 619 | 3.3 | 184 | L | 6.4 | 17 | 350 | 5.7 | -1.2 | 1.6 | 2 | J |
| 617 | 3.1 | 200 | L | 5.3 | 4 | 16 | 4.3 | 1.2 | 0.5 | 3 | J |
| 665 | 3.3 | 222 | L | 5.4 | 33 | 78 | 0.9 | 3.6 | 3.7 | 1 | J |
| 621 | 2.7 | 186 | L | 5.3 | 21 | 344 | 3.9 | -1.5 | 1.2 | 3 | J |
| 638 | 2.8 | 201 | L | 5.2 | 16 | 26 | 4.1 | 1.6 | 1.8 | 2 | J |
| 653 | 2.6 | 186 | L | 5.3 | 2 | 44 | 3.5 | 3.2 | 1.1 | 2 | J |
| 638 | 2.7 | 163 | L | 5.3 | 6 | 48 | 3.3 | 3.4 | 1.6 | 2 | J |

## JAN. 1, 1979

1

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 625 | 2.4 | 130 | C | 5.4 | 7 | 28 | 4.6 | 2.1 | 1.3 | 1 | C |
| 2 | 617 | 2.3 | 131 | C | 5.1 | 1 | 20 | 4.1 | 1.4 | 0.4 | 3 | J |
| 3 | 615 | 2.2 | 143 | C | 4.8 | 4 | 359 | 4.5 | -0.1 | 0.3 | 2 | J |
| 4 | 605 | 2.0 | 134 | C | 4.8 | -9 | 7 | 4.4 | 0.6 | -0.6 | 2 | J |
| 5 | 613 | 2.0 | 129 | C | 4.8 | 9 | 2 | 4.3 | 0.1 | 0.7 | 2 | J |
| 6 | 607 | 2.1 | 142 | C | 4.7 | 5 | 349 | 4.4 | -0.9 | 0.4 | 1 | J |
| 7 | 607 | 2.1 | 126 | C | 5.0 | 17 | 353 | 4.5 | -0.5 | 1.4 | 2 | J |
| 8 | 593 | 1.9 | 102 | C | 5.0 | 16 | 358 | 4.6 | -0.1 | 1.3 | 1 | J |
| 9 | 595 | 1.8 | 117 | C | 4.5 | 24 | 357 | 3.7 | -0.0 | 1.7 | 2 | J |
| 10 | 592 | 1.9 | 107 | C | 5.1 | 18 | 9 | 4.5 | 0.9 | 1.4 | 1 | C |
| 11 | 614 | 2.1 | 157 | C | 4.7 | 15 | 359 | 3.8 | 0.0 | 1.0 | 2 | C |
| 12 | 613 | 1.9 | 152 | C | 4.7 | 21 | 343 | 3.6 | -0.9 | 1.6 | 2 | C |
| 13 | 602 | 1.8 | 130 | C | 4.3 | 22 | 343 | 3.2 | -0.8 | 1.4 | 2 | J |
| 14 | 617 | 1.8 | 131 | C | 4.5 | -1 | 282 | 0.7 | -3.2 | 0.2 | 3 | J |
| 15 | 584 | 1.5 | 103 | C | 4.8 | 27 | 344 | 3.8 | -1.0 | 2.0 | 2 | J |
| 16 | 573 | 1.3 | 105 | C | 4.9 | 27 | 326 | 3.5 | -2.4 | 2.1 | 1 | J |
| 17 | 582 | 1.2 | 105 | C | 5.1 | 14 | 318 | 3.5 | -3.2 | 0.9 | 2 | J |
| 18 | 587 | 1.3 | 93 | C | 5.3 | 31 | 335 | 4.0 | -2.2 | 2.4 | 1 | J |
| 19 | 586 | 1.2 | 91 | C | 5.2 | 25 | 321 | 3.5 | -3.2 | 1.6 | 1 | J |
| 20 | 565 | 1.1 | 73 | C | 5.2 | 35 | 329 | 3.5 | -2.7 | 2.3 | 1 | J |
| 21 | 547 | 1.8 | 48 | C | 5.1 | 33 | 324 | 3.3 | -3.0 | 2.0 | 1 | J |
| 22 | 557 | 2.5 | 72 | C | 4.7 | -15 | 271 | 0.1 | -2.9 | -1.8 | 3 | J |
| 23 | 551 | 2.5 | 83 | C | 4.5 | -41 | 246 | -1.3 | -2.0 | -3.6 | 1 | J |
| 24 | 552 | 2.2 | 118 | C | 5.4 | -8 | 309 | 3.2 | -3.6 | -1.9 | 1 | J |

## JAN. 2, 1979

2

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 538 | 1.8 | 109 | C | 5.3 | 16 | 316 | 3.2 | -3.4 | 0.4 | 2 | J |
| 524 | 1.9 | 69 | C | 5.4 | 29 | 318 | 3.3 | -3.5 | 1.6 | 2 | J |
| 519 | 2.0 | 62 | C | 5.8 | 29 | 324 | 4.0 | -3.4 | 2.0 | 1 | J |
| 505 | 2.1 | 48 | C | 5.9 | 20 | 328 | 4.2 | -2.9 | 1.4 | 3 | J |
| 505 | 2.3 | 62 | C | 5.7 | 6 | 339 | 5.0 | -2.0 | 0.4 | 2 | J |
| 489 | 2.6 | 57 | C | 5.4 | 10 | 329 | 4.5 | -2.7 | 0.8 | 1 | J |
| 482 | 2.6 | 58 | C | 5.9 | -1 | 333 | 4.6 | -2.4 | -0.0 | 3 | J |
| 490 | 3.0 | 71 | C | 6.3 | 18 | 349 | 5.7 | -1.0 | 2.0 | 2 | J |
| 493 | 3.1 | 73 | C | 6.7 | 22 | 341 | 5.3 | -1.6 | 2.5 | 3 | J |
| 480 | 3.5 | 71 | C | 7.7 | 7 | 348 | 7.1 | -1.4 | 1.1 | 2 | J |
| 472 | 4.3 | 61 | C | 8.3 | -10 | 341 | 7.6 | -2.8 | -1.1 | 1 | J |
| 487 | 5.4 | 54 | C | 8.3 | -49 | 249 | -1.6 | -4.6 | -4.5 | 5 | J |
| 482 | 5.2 | 59 | C | 7.1 | -41 | 351 | 4.2 | -1.0 | -3.7 | 4 | J |
| 485 | 4.8 | 103 | C | 6.3 | -42 | 350 | 3.1 | -0.7 | -2.8 | 5 | J |
| 489 | 4.1 | 139 | C | 5.8 | -51 | 338 | 2.0 | -0.9 | -2.7 | 5 | J |
| 491 | 4.2 | 177 | C | 5.7 | -29 | 301 | 1.9 | -3.2 | -2.2 | 4 | J |
| 494 | 4.3 | 157 | C | 6.0 | -36 | 292 | 1.5 | -3.5 | -3.2 | 3 | J |
| 496 | 4.0 | 157 | C | 5.9 | -27 | 288 | 1.5 | -4.1 | -3.0 | 3 | J |
| 511 | 4.2 | 169 | C | 7.4 | -7 | 295 | 2.2 | -4.5 | -1.5 | 5 | J |
| 542 | 5.4 | 305 | C | 7.3 | -69 | 226 | -1.2 | -0.2 | -4.8 | 5 | J |
| 575 | 4.5 | 253 | C | 9.9 | 4 | 264 | -0.9 | -8.5 | -1.7 | 5 | J |
| 569 | 4.1 | 195 | C | 10.0 | -38 | 259 | -1.3 | -4.9 | -7.1 | 5 | J |
| 559 | 4.1 | 230 | C | 10.1 | -28 | 273 | 0.5 | -6.8 | -7.0 | 2 | J |
| 557 | 2.9 | 156 | C | 10.5 | -28 | 273 | 0.5 | -6.9 | -7.0 | 2 | C |

## JAN. 3, 1979

3

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 559 | 2.8 | 128 | C | 10.7 | -10 | 272 | 0.4 | -9.1 | -4.7 | 2 | C |
| 2 | 598 | 4.0 | 94 | C | 10.3 | -14 | 258 | -2.0 | -8.6 | -4.9 | 2 | C |
| 3 | 592 | 3.9 | 80 | C | 9.9 | -7 | 260 | -1.7 | -9.0 | -3.3 | 1 | C |
| 4 | 585 | 4.2 | 70 | C | 9.4 | 17 | 254 | -2.3 | -8.5 | 1.2 | 3 | C |
| 5 | 588 | 3.4 | 62 | C | 9.2 | 15 | 238 | -4.6 | -7.6 | 1.5 | 1 | J |
| 6 | 580 | 3.4 | 57 | C | 8.1 | 15 | 252 | -2.3 | -7.3 | 1.7 | 2 | J |
| 7 | 567 | 2.8 | 65 | C | 7.4 | 1 | 261 | -1.1 | -7.1 | 0.2 | 1 | J |
| 8 | 547 | 3.5 | 73 | C | 6.8 | -13 | 266 | -0.4 | -6.4 | -1.1 | 2 | J |
| 9 | 535 | 3.0 | 96 | C | 6.1 | -42 | 261 | -0.7 | -4.7 | -3.5 | 1 | J |
| 10 | 528 | 2.9 | 95 | C | 5.6 | -41 | 258 | -0.9 | -4.5 | -3.2 | 1 | J |
| 11 | 522 | 3.0 | 78 | C | 5.3 | -54 | 265 | -0.3 | -3.5 | -3.8 | 1 | J |
| 12 | 514 | 3.8 | 66 | C | 5.4 | -9 | 268 | -0.1 | -4.2 | -0.2 | 3 | J |
| 13 | 520 | 5.1 | 59 | C | 5.9 | -45 | 259 | -0.8 | -4.2 | -3.6 | 2 | J |
| 14 | 517 | 5.7 | 51 | C | 5.5 | -24 | 252 | -1.5 | -4.6 | -1.9 | 2 | J |
| 15 | 500 | 6.2 | 53 | C | 5.5 | -14 | 259 | -0.9 | -4.7 | -1.1 | 2 | J |
| 16 | 493 | 6.3 | 52 | C | 5.8 | 1 | 263 | -0.6 | -5.2 | -0.1 | 2 | J |
| 17 | 500 | 6.6 | 51 | C | 5.9 | 7 | 247 | -2.0 | -4.8 | 0.2 | 3 | J |
| 18 | 497 | 7.0 | 46 | C | 5.9 | 0 | 249 | -1.8 | -4.7 | -0.7 | 3 | J |
| 19 | 485 | 6.6 | 50 | C | 6.0 | 3 | 256 | -1.1 | -4.4 | -0.6 | 4 | J |
| 20 | 483 | 6.2 | 44 | C | 5.7 | -43 | 234 | -2.4 | -2.3 | -4.5 | 1 | J |
| 21 | 468 | 7.3 | 36 | C | 6.0 | -29 | 274 | 0.3 | -3.8 | -3.7 | 3 | J |
| 22 | 472 | 7.4 | 35 | C | 6.6 | -50 | 261 | -0.6 | -2.4 | -5.9 | 1 | J |
| 23 | 469 | 8.1 | 33 | C | 6.7 | -30 | 263 | -0.6 | -4.2 | -4.7 | 2 | C |
| 24 | 463 | 8.3 | 21 | C | 7.9 | -54 | 270 | 0.0 | -2.3 | -7.3 | 2 | C |

## JAN. 4, 1979

4

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 455 | 1.9 | 30 | C | 8.9 | -79 | 273 | 0.1 | 0.9 | -8.7 | 1 | C |
| 456 | 1.8 | 32 | C | 8.7 | -89 | 61 | 0.1 | 2.5 | -8.3 | 0 | C |
| 453 | 2.0 | 23 | C | 8.5 | -88 | 125 | -0.1 | 2.1 | -8.1 | 1 | C |
| 454 | 1.7 | 20 | C | 8.3 | -86 | 251 | -0.2 | 0.9 | -8.2 | 1 | C |
| 447 | 1.6 | 19 | C | 8.3 | -84 | 271 | 0.0 | 0.0 | -8.2 | 1 | C |
| 450 | 1.4 | 20 | C | 8.3 | -71 | 297 | 1.2 | -2.0 | -7.9 | 1 | C |
| 452 | 1.6 | 25 | C | 8.4 | -69 | 320 | 2.3 | -1.9 | -7.8 | 1 | C |
| 442 | 1.8 | 31 | C | 8.0 | -67 | 321 | 2.4 | -2.3 | -7.3 | 1 | J |
| 429 | 2.1 | 35 | C | 7.9 | -74 | 328 | 1.8 | -1.8 | -7.5 | 1 | J |
| 409 | 3.7 | 45 | C | 7.8 | -63 | 337 | 3.2 | -2.1 | -6.7 | 1 | J |
| 435 | 5.3 | 18 | C | 7.5 | -80 | 357 | 1.1 | -0.8 | -6.5 | 3 | J |
| 439 | 5.0 | 14 | C | 7.9 | -57 | 138 | -3.1 | 2.1 | -6.7 | 2 | J |
| 439 | 5.2 | 19 | C | 7.6 | -58 | 135 | -2.8 | 2.3 | -6.7 | 1 | J |
| 435 | 4.6 | 22 | C | 7.4 | -53 | 137 | -3.2 | 2.7 | -6.0 | 1 | J |
| 431 | 4.9 | 30 | C | 6.7 | -89 | 27 | 0.1 | 0.0 | -5.5 | 4 | J |
| 436 | 5.3 | 38 | C | 6.3 | -79 | 112 | -0.4 | 1.3 | -5.9 | 2 | J |
| 443 | 5.5 | 30 | C | 7.4 | -75 | 56 | 1.0 | 2.2 | -6.8 | 2 | J |
| 425 | 5.0 | 22 | C | 8.0 | -83 | 44 | 0.7 | 1.8 | -7.6 | 2 | J |
| 420 | 5.1 | 23 | C | 8.3 | -72 | 356 | 2.5 | 1.3 | -7.6 | 2 | J |
| 429 | 4.9 | 18 | C | 8.8 | -67 | 55 | 1.9 | 4.6 | -7.1 | 2 | J |
| 434 | 5.2 | 30 | C | 8.9 | -55 | 360 | 4.8 | 1.9 | -6.6 | 3 | J |
| 419 | 4.7 | 52 | C | 8.9 | -44 | 340 | 5.7 | -0.2 | -6.3 | 2 | J |
| 421 | 5.0 | 47 | C | 8.6 | -54 | 347 | 4.5 | 1.0 | -6.3 | 4 | J |
| 423 | 5.8 | 66 | C | 8.6 | -52 | 21 | 4.5 | 3.7 | -5.3 | 3 | C |

## JAN. 5, 1979

5

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 433 | 7.0 | 62 | C | 9.6 | -59 | 355 | 4.6 | 2.0 | -7.6 | 3 | C |
| 2 | 457 | 10.8 | 88 | C | 11.2 | -54 | 348 | 5.8 | 1.1 | -8.1 | 4 | C |
| 3 | 464 | 13.0 | 112 | C | 9.8 | -74 | 2 | 1.7 | 1.4 | -5.5 | 7 | C |
| 4 | 448 | 12.4 | 105 | C | 9.6 | -26 | 304 | 4.7 | -6.1 | -5.3 | 1 | C |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 437 | 9.3 | 107 | C | 6.3 | 52 | 32 | 2.9 | 1.8 | 4.3 | 3 | C |
| 8 | 445 | 9.8 | 128 | C | 4.6 | 67 | 351 | 0.9 | -0.0 | 2.1 | 4 | C |
| 9 | 430 | 8.4 | 129 | C | 5.6 | 34 | 325 | 3.5 | -2.2 | 3.1 | 2 | C |
| 10 | 424 | 8.6 | 136 | C | 6.1 | 5 | 328 | 3.8 | -2.4 | 0.6 | 4 | C |
| 11 | 409 | 8.2 | 120 | C | 6.7 | 58 | 341 | 2.3 | -0.4 | 4.0 | 5 | J |
| 12 | 413 | 8.3 | 125 | C | 6.6 | 43 | 338 | 4.1 | -1.2 | 4.2 | 3 | J |
| 13 | 410 | 7.9 | 117 | C | 6.2 | 9 | 343 | 5.6 | -1.6 | 1.0 | 2 | J |
| 14 | 411 | 6.9 | 119 | C | 6.4 | 25 | 321 | 3.6 | -2.9 | 2.3 | 3 | C |
| 15 | 406 | 7.0 | 123 | C | 6.6 | -26 | 324 | 4.4 | -3.2 | -2.7 | 2 | J |
| 16 | 410 | 7.5 | 109 | C | 6.4 | -15 | 344 | 4.7 | -1.3 | -1.4 | 4 | J |
| 17 | 400 | 7.6 | 96 | C | 6.7 | -58 | 358 | 3.4 | 0.4 | -5.4 | 2 | J |
| 18 | 388 | 8.1 | 79 | C | 6.6 | -9 | 321 | 4.5 | -3.5 | -1.5 | 3 | J |
| 19 | 386 | 8.5 | 63 | C | 6.7 | -34 | 326 | 4.2 | -2.1 | -3.9 | 3 | J |
| 20 | 368 | 7.2 | 41 | C | 7.3 | 7 | 332 | 6.0 | -3.3 | 0.0 | 2 | J |
| 21 | 360 | 7.3 | 37 | C | 7.5 | -17 | 339 | 6.3 | -1.7 | -2.7 | 2 | J |
| 22 | 371 | 7.0 | 45 | C | 7.3 | -21 | 339 | 5.8 | -1.4 | -2.9 | 3 | J |
| 23 | 362 | 7.5 | 48 | C | 6.9 | -27 | 341 | 5.4 | -0.8 | -3.3 | 3 | J |
| 24 | 362 | 7.5 | 48 | C | 7.1 | -28 | 332 | 5.1 | -1.6 | -3.8 | 3 | J |

## JAN. 6, 1979

6

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 355 | 8.3 | 44 | C | 7.4 | 12 | 297 | 3.2 | -6.4 | -0.5 | 2 | J |
| 332 | 8.0 | 42 | C | 11.2 | 13 | 307 | 6.3 | -8.7 | -0.1 | 4 | J |
| 438 | 13.5 | 103 | C | 11.4 | 58 | 15 | 2.5 | -0.4 | 4.1 | 10 | J |
| 438 | 12.9 | 123 | C | 9.7 | 50 | 127 | -3.0 | 2.8 | 6.6 | 6 | J |
| 434 | 14.6 | 112 | C | 11.1 | 73 | 296 | 1.3 | -3.8 | 9.1 | 2 | C |
| 413 | 10.7 | 72 | C | 13.4 | 9 | 294 | 5.4 | -12.0 | 1.2 | 2 | C |
| 414 | 11.2 | 78 | C | 12.7 | 14 | 292 | 4.5 | -11.2 | 2.9 | 2 | C |
| 436 | 17.5 | 104 | C | 6.1 | -9 | 296 | 0.9 | -1.9 | -0.3 | 5 | C |
| 457 | 11.1 | 118 | C | 8.5 | 26 | 150 | -4.8 | 3.0 | 2.5 | 5 | C |
| 476 | 7.8 | 108 | C | 8.1 | 53 | 149 | -4.1 | 3.1 | 6.1 | 2 | J |
| 471 | 13.5 | 95 | C | 6.9 | -34 | 320 | 2.5 | -2.3 | -2.0 | 6 | J |
| 466 | 9.7 | 113 | C | 8.0 | -57 | 303 | 1.8 | -3.3 | -4.9 | 5 | J |
| 452 | 8.8 | 88 | C | 10.6 | -18 | 117 | -1.6 | 3.1 | -1.4 | 10 | J |
| 443 | 7.8 | 59 | C | 8.7 | -27 | 279 | 0.2 | -1.2 | -0.6 | 9 | J |
| 447 | 9.4 | 82 | C | 6.0 | -3 | 277 | 0.6 | -5.1 | -0.3 | 3 | J |
| 471 | 8.9 | 72 | C | 4.7 | -41 | 85 | 0.3 | 3.5 | -2.7 | 2 | J |
| 482 | 10.9 | 62 | C | 5.9 | -3 | 111 | -1.2 | 3.1 | 0.2 | 5 | J |
| 475 | 6.4 | 71 | C | 4.3 | -4 | 297 | 0.8 | -1.5 | -0.4 | 4 | J |
| 473 | 9.4 | 77 | C | 6.6 | -8 | 120 | -3.1 | 5.4 | 0.3 | 2 | J |
| 462 | 4.9 | 85 | C | 6.9 | 39 | 134 | -3.7 | 2.6 | 5.1 | 1 | J |
| 466 | 4.4 | 74 | C | 6.8 | 23 | 123 | -3.3 | 4.1 | 3.9 | 2 | J |
| 471 | 3.7 | 67 | C | 7.2 | 27 | 122 | -3.3 | 4.1 | 4.7 | 1 | C |
| 501 | 5.2 | 83 | C | 4.6 | 25 | 145 | -3.3 | 1.6 | 2.6 | 1 | J |
| 503 | 5.8 | 90 | C | 6.3 | 27 | 201 | -4.4 | -2.4 | 1.7 | 4 | J |

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## JAN. 7, 1979

7

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 502 | 5.9 | 100 | C | 8.3 | 63 | 295 | 1.4 | -4.9 | 5.2 | 4 | J |
| 2 | 533 | 7.6 | 61 | C | 8.6 | 64 | 266 | -0.3 | -5.6 | 6.0 | 3 | J |
| 3 | | | | | 8.6 | 59 | 276 | 0.5 | -6.0 | 6.0 | 1 | J |
| 4 | 523 | 9.0 | 49 | C | 7.9 | 55 | 260 | -0.7 | -5.4 | 5.2 | 2 | J |
| 5 | 517 | 8.0 | 36 | C | 7.8 | 47 | 246 | -2.1 | -5.5 | 4.8 | 2 | C |
| 6 | 518 | 6.5 | 33 | C | 7.3 | 49 | 260 | -0.8 | -4.7 | 4.6 | 3 | C |
| 7 | 512 | 6.6 | 29 | C | 7.3 | 50 | 263 | -0.5 | -4.5 | 5.1 | 2 | C |
| 8 | 529 | 8.3 | 38 | C | 6.3 | 54 | 272 | 0.1 | -3.5 | 5.0 | 1 | C |
| 9 | 539 | 12.7 | 41 | C | 4.5 | 15 | 235 | -2.2 | -3.1 | 1.3 | 2 | C |
| 10 | 543 | 12.1 | 45 | C | 4.4 | -11 | 179 | -4.1 | 0.0 | -0.8 | 1 | C |
| 11 | 552 | 8.4 | 55 | C | 6.1 | -20 | 141 | -4.2 | 3.3 | -2.3 | 2 | C |
| 12 | 582 | 5.6 | 37 | C | 9.2 | -8 | 173 | -8.9 | 1.0 | -1.4 | 2 | J |
| 13 | 551 | 14.4 | 48 | C | 9.6 | -24 | 201 | -6.9 | -2.8 | -3.1 | 5 | J |
| 14 | 550 | 17.0 | 64 | C | 12.1 | -32 | 182 | -10.1 | -0.5 | -6.3 | 2 | J |
| 15 | 544 | 15.3 | 51 | C | 10.2 | -33 | 188 | -8.3 | -1.1 | -5.5 | 2 | J |
| 16 | 531 | 12.0 | 38 | C | 11.9 | -38 | 194 | -9.1 | -1.9 | -7.4 | 1 | C |
| 17 | 528 | 11.7 | 49 | C | 11.4 | -47 | 201 | -7.2 | -1.8 | -8.5 | 1 | C |
| 18 | 520 | 15.5 | 41 | C | 11.5 | -49 | 214 | -6.1 | -2.7 | -8.9 | 3 | C |
| 19 | 530 | 19.0 | 34 | C | 10.9 | -31 | 243 | -4.0 | -6.5 | -6.9 | 3 | C |
| 20 | 533 | 21.4 | 24 | C | 13.3 | -45 | 242 | -4.3 | -5.5 | -10.9 | 2 | C |
| 21 | 531 | 3.1 | 42 | C | 14.8 | -23 | 269 | -0.1 | -11.1 | -9.5 | 2 | C |
| 22 | 522 | 2.2 | 46 | C | 15.1 | -17 | 274 | 1.0 | -12.1 | -8.8 | 1 | C |
| 23 | 518 | 2.9 | 38 | C | 15.3 | -10 | 285 | 3.9 | -12.8 | -7.4 | 0 | C |
| 24 | 509 | 6.0 | 31 | C | 15.3 | -4 | 295 | 6.3 | -12.6 | -5.8 | 1 | C |

## JAN. 9, 1979

9

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 9.0 | 24 | C | 7.7 | 40 | 290 | 1.7 | -5.8 | 2.3 | 4 | C |
| 2 | 407 | 9.0 | 21 | C | 8.1 | 62 | 271 | 0.1 | -5.7 | 5.6 | 1 | C |
| 3 | 401 | 9.0 | 18 | C | 8.5 | 75 | 267 | -0.1 | -4.2 | 7.2 | 1 | C |
| 4 | 391 | 9.0 | 20 | C | 8.6 | 75 | 323 | 1.7 | -3.0 | 7.7 | 2 | C |
| 5 | 422 | 14.1 | 56 | C | 16.8 | 77 | 319 | 2.6 | -4.7 | 15.0 | 7 | C |
| 6 | 442 | 19.2 | 80 | C | 19.0 | 68 | 282 | 1.4 | -8.4 | 16.3 | 4 | C |
| 7 | 443 | 22.0 | 117 | C | 12.2 | 0 | 93 | -0.4 | 7.7 | 0.2 | 8 | C |
| 8 | 414 | 16.6 | 121 | C | 9.6 | -52 | 54 | 1.2 | 1.7 | -2.8 | 8 | C |
| 9 | 397 | 15.5 | 114 | C | 9.6 | 34 | 312 | 4.5 | -4.8 | 4.8 | 4 | C |
| 10 | 404 | 15.8 | 105 | C | 8.5 | 5 | 1 | 4.3 | 0.4 | 5.0 | 4 | C |
| 11 | 441 | 12.1 | 86 | C | 9.9 | 84 | 324 | 0.8 | 0.1 | 8.8 | 4 | C |
| 12 | 431 | 11.5 | 131 | C | 9.3 | 36 | 35 | 5.2 | 4.0 | 4.4 | 4 | C |
| 13 | 443 | 10.8 | 122 | C | 8.6 | 73 | 14 | 1.8 | 0.7 | 6.2 | 5 | C |
| 14 | 421 | 10.5 | 116 | C | 8.1 | 32 | 336 | 3.6 | -1.6 | 2.5 | 6 | C |
| 15 | 435 | 10.9 | 94 | C | 8.1 | 73 | 284 | 0.5 | -2.1 | 6.6 | 3 | C |
| 16 | 441 | 15.6 | 69 | C | 5.9 | 59 | 141 | -1.8 | 1.2 | 4.0 | 4 | C |
| 17 | 460 | 11.0 | 85 | C | 7.9 | -11 | 123 | -3.6 | 5.6 | -0.5 | 4 | C |
| 18 | 459 | 8.3 | 90 | C | 8.2 | -16 | 115 | -2.5 | 5.4 | -0.7 | 5 | C |
| 19 | 461 | 7.3 | 59 | C | 8.6 | 50 | 167 | -5.2 | -0.3 | 6.6 | 2 | C |
| 20 | 450 | 10.8 | 66 | C | 7.1 | 31 | 170 | -5.5 | -0.0 | 3.5 | 2 | C |
| 21 | 445 | 13.3 | 64 | C | 4.7 | 25 | 152 | -3.2 | 1.1 | 2.1 | 2 | C |
| 22 | 462 | 6.0 | 55 | C | 6.3 | 17 | 149 | -4.6 | 2.0 | 2.5 | 3 | C |
| 23 | 453 | 5.8 | 51 | C | 7.6 | 20 | 145 | -5.7 | 2.9 | 3.8 | 1 | C |
| 24 | 443 | 5.3 | 57 | C | 6.9 | 3 | 132 | -4.3 | 4.4 | 2.1 | 2 | C |

## JAN. 11, 1979

11

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 381 | 6.6 | 31 | C | 5.5 | -7 | 280 | 0.8 | -4.3 | -2.2 | 2 | C |
| 2 | 388 | 6.2 | 32 | C | 5.7 | 5 | 269 | -0.1 | -5.2 | -1.3 | 1 | C |
| 3 | 384 | 5.9 | 30 | C | 5.8 | -2 | 267 | -0.3 | -5.1 | -1.7 | 1 | C |
| 4 | 386 | 6.4 | 24 | C | 6.0 | 48 | 284 | 0.9 | -4.4 | 3.2 | 2 | C |
| 5 | 375 | 6.7 | 30 | C | 6.2 | -7 | 289 | 1.9 | -5.3 | -1.7 | 2 | C |
| 6 | 359 | 7.1 | 27 | C | 6.6 | 14 | 320 | 4.3 | -3.8 | 1.0 | 2 | C |
| 7 | 351 | 7.1 | 24 | C | 7.0 | 23 | 337 | 5.6 | -2.5 | 2.5 | 2 | C |
| 8 | 355 | 7.1 | 22 | C | 7.0 | 38 | 335 | 4.8 | -2.3 | 4.1 | 1 | C |
| 9 | 361 | 6.9 | 27 | C | 7.1 | 14 | 306 | 3.7 | -5.0 | 1.8 | 3 | C |
| 10 | 378 | 5.9 | 30 | C | 7.5 | -16 | 285 | 1.8 | -6.7 | -1.6 | 2 | C |
| 11 | 381 | 5.7 | 35 | C | 7.6 | -4 | 293 | 2.7 | -6.4 | -0.2 | 3 | C |
| 12 | 369 | 5.8 | 51 | C | 7.7 | 0 | 309 | 4.7 | -5.7 | 0.3 | 0 | C |
| 13 | 382 | 6.6 | 94 | C | 6.9 | -24 | 279 | 1.0 | -6.0 | -2.5 | 2 | C |
| 14 | 389 | 6.0 | 74 | C | 7.0 | 5 | 299 | 3.2 | -5.8 | 0.5 | 2 | C |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 7.3 | 58 | 344 | 3.6 | -2.2 | 5.7 | 0 | C |
| 19 | 387 | 7.1 | 62 | C | 7.2 | 57 | 301 | 1.9 | -4.5 | 4.8 | 2 | C |
| 20 | | | | | | | | | | | | |
| 21 | 381 | 7.7 | 52 | C | 6.6 | 48 | 274 | 0.3 | -5.3 | 3.0 | 2 | C |
| 22 | 382 | 7.9 | 54 | C | 6.2 | 47 | 249 | -1.4 | -5.1 | 2.8 | 1 | C |
| 23 | 377 | 7.8 | 50 | C | 6.0 | 53 | 272 | 0.1 | -4.9 | 3.0 | 1 | C |
| 24 | 372 | 8.3 | 52 | C | 6.3 | 37 | 280 | 0.8 | -5.5 | 1.6 | 2 | C |

## JAN. 13, 1979

13

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 420 | 11.1 | 59 | J | 7.6 | 7 | 115 | -3.2 | 6.1 | 3.3 | 1 | J |
| 2 | 427 | 10.2 | 53 | J | 7.4 | 7 | 121 | -3.7 | 5.5 | 2.9 | 2 | J |
| 3 | 425 | 10.0 | 60 | J | 6.5 | 23 | 123 | -3.2 | 4.0 | 3.8 | 1 | J |
| 4 | 430 | 9.5 | 51 | J | 5.9 | 14 | 152 | -5.0 | 2.2 | 2.0 | 1 | J |
| 5 | 437 | 7.8 | 72 | J | 6.3 | 0 | 165 | -6.0 | 1.6 | 0.3 | 1 | J |
| 6 | 426 | 7.2 | 51 | J | 5.8 | -5 | 166 | -5.5 | 1.4 | -0.3 | 1 | J |
| 7 | 420 | 7.6 | 34 | J | 4.8 | -9 | 160 | -4.2 | 1.6 | -0.6 | 1 | J |
| 8 | 433 | 7.5 | 42 | J | 5.5 | -7 | 160 | -5.0 | 1.8 | -0.6 | 1 | J |
| 9 | 434 | 9.6 | 47 | J | 6.0 | -1 | 156 | -5.3 | 2.4 | -0.1 | 1 | J |
| 10 | 422 | 8.9 | 36 | J | 5.9 | -8 | 151 | -4.9 | 2.7 | -0.9 | 1 | J |
| 11 | 412 | 10.3 | 49 | J | 5.8 | -4 | 152 | -4.9 | 2.6 | -0.5 | 1 | J |
| 12 | 415 | 10.4 | 44 | J | 5.8 | [illegible] | 161 | -5.3 | 1.8 | -0.1 | 1 | J |
| 13 | 408 | 10.6 | 49 | J | 5.2 | -4 | 153 | -4.4 | 2.3 | -0.4 | 1 | J |
| 14 | 404 | 11.8 | 32 | J | 5.5 | -7 | 147 | -4.5 | 2.9 | -0.6 | 1 | J |
| 15 | 395 | 12.4 | 28 | J | 5.3 | -9 | 136 | -3.7 | 3.6 | -0.6 | 1 | J |
| 16 | 386 | 12.2 | 29 | J | 5.4 | -16 | 120 | -2.5 | 4.4 | -1.0 | 2 | J |
| 17 | 382 | 10.9 | 33 | J | 5.3 | -5 | 132 | -3.4 | 3.8 | 0.1 | 1 | J |
| 18 | 381 | 11.6 | 32 | J | 4.8 | 3 | 135 | -3.3 | 3.2 | 0.9 | 1 | J |
| 19 | 369 | 13.5 | 20 | J | 4.6 | -4 | 138 | -3.3 | 2.9 | 0.5 | 1 | J |
| 20 | 368 | 13.5 | 19 | J | 4.8 | -1 | 143 | -3.8 | 2.8 | 0.8 | 1 | J |
| 21 | 365 | 13.1 | 22 | J | 5.2 | -2 | 145 | -4.2 | 2.8 | 0.8 | 1 | J |
| 22 | 363 | 12.1 | 22 | J | 5.4 | -5 | 145 | -4.3 | 3.0 | 0.7 | 1 | J |
| 23 | 359 | 12.3 | 26 | J | 5.8 | 9 | 171 | -5.4 | 0.5 | 1.1 | 2 | J |
| 24 | 352 | 14.7 | 39 | J | 5.7 | 16 | 119 | -2.6 | 3.7 | 3.1 | 1 | J |

## JAN. 8, 1979

8

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 6.0 | 35 | C | 14.8 | 11 | 285 | 3.8 | -14.1 | -2.0 | 1 | C |
| 487 | 5.7 | 32 | C | 14.1 | 29 | 262 | -1.6 | -13.3 | 2.8 | 3 | C |
| 476 | 5.7 | 25 | C | 12.8 | 39 | 255 | -2.5 | -11.4 | 5.2 | 1 | C |
| 467 | 9.4 | 24 | C | 11.2 | 44 | 250 | -2.8 | -8.9 | 6.1 | 1 | C |
| 470 | 7.3 | 25 | C | 10.3 | 47 | 270 | 0.1 | -7.6 | 6.1 | 3 | C |
| 482 | 9.7 | 28 | C | 9.0 | 45 | 293 | 2.5 | -6.3 | 5.7 | 1 | C |
| 467 | 6.8 | 27 | C | 9.0 | 67 | 317 | 2.4 | -2.5 | 7.9 | 2 | C |
| 453 | 5.2 | 22 | C | 8.9 | 55 | 287 | 1.4 | -4.5 | 7.0 | 3 | C |
| 453 | 5.0 | 21 | C | 8.4 | 56 | 297 | 2.1 | -3.7 | 7.1 | 1 | C |
| 453 | 4.0 | 24 | C | 8.0 | 60 | 307 | 2.4 | -2.6 | 7.1 | 1 | C |
| 439 | 5.5 | 21 | C | 7.5 | 47 | 326 | 4.2 | -2.3 | 5.6 | 1 | C |
| 436 | 5.6 | 23 | C | 7.1 | 59 | 341 | 3.9 | -0.9 | 6.9 | 4 | C |
| 436 | 4.7 | 26 | C | 6.5 | 49 | 5 | 4.2 | 0.6 | 4.9 | 1 | C |
| 439 | 3.8 | 35 | C | 6.1 | 44 | 359 | 4.4 | 0.0 | 4.2 | 1 | C |
| 431 | 4.3 | 33 | C | 5.7 | 42 | 325 | 3.2 | -2.3 | 3.4 | 2 | C |
| 429 | 4.4 | 28 | C | 5.3 | 34 | 292 | 1.6 | -4.3 | 2.7 | 1 | C |
| 425 | 4.9 | 34 | C | 5.7 | 38 | 323 | 3.2 | -2.7 | 2.8 | 2 | C |
| 440 | 5.9 | 44 | C | 6.5 | 36 | 315 | 2.0 | -2.3 | 1.7 | 5 | C |
| 428 | 6.3 | 53 | C | 6.5 | -3 | 317 | 4.5 | -4.0 | -1.3 | 2 | C |
| 432 | 6.2 | 40 | C | 6.5 | -5 | 295 | 2.7 | -5.3 | -2.0 | 1 | C |
| 428 | 6.9 | 34 | C | 6.6 | 4 | 289 | 2.1 | -5.9 | -1.4 | 1 | C |
| 422 | 6.9 | 31 | C | 7.2 | 26 | 299 | 2.8 | -5.7 | 1.0 | 3 | C |
| 427 | 7.7 | 35 | C | 6.9 | 40 | 290 | 1.4 | -4.8 | 1.9 | 4 | C |
| 411 | 8.9 | 36 | C | 7.4 | -47 | 320 | 3.6 | -1.1 | -5.7 | 3 | C |

## JAN. 10, 1979

10

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 449 | 5.3 | 53 | C | 7.0 | 12 | 151 | -5.4 | 2.3 | 2.3 | 3 | C |
| 454 | 5.0 | 67 | C | 6.5 | 17 | 194 | -6.0 | -1.9 | 1.3 | 1 | C |
| 401 | 5.4 | 58 | C | 6.1 | 16 | 264 | -0.4 | -3.9 | -0.0 | 4 | C |
| 430 | 4.7 | 47 | C | 5.7 | 6 | 203 | -4.5 | -2.0 | 0.1 | 3 | C |
| 445 | 4.1 | 38 | C | 5.5 | 6 | 188 | -5.3 | -0.8 | 0.4 | 1 | C |
| 438 | 4.1 | 40 | C | 5.4 | 7 | 205 | -4.3 | -2.1 | 0.3 | 2 | C |
| 419 | 4.8 | 37 | C | 5.1 | 35 | 238 | -2.1 | -3.6 | 2.7 | 1 | C |
| 413 | 4.6 | 34 | C | 5.3 | 36 | 248 | -1.5 | -3.7 | 2.9 | 2 | C |
| 404 | 4.6 | 27 | C | 5.5 | 49 | 262 | -0.4 | -2.9 | 3.7 | 3 | C |
| 399 | 5.1 | 33 | C | 5.9 | 37 | 279 | 0.7 | -4.1 | 3.6 | 2 | C |
| 396 | 5.2 | 30 | C | 5.5 | 22 | 283 | 1.2 | -4.7 | 2.3 | 1 | C |
| 409 | 5.6 | 35 | C | 5.6 | 38 | 269 | -0.1 | -4.0 | 3.5 | 1 | C |
| 396 | 5.9 | 27 | C | 6.0 | 36 | 296 | 2.0 | -4.0 | 3.5 | 1 | C |
| 395 | 5.8 | 29 | C | 5.9 | 19 | 295 | 2.3 | -4.9 | 1.8 | 1 | C |
| 405 | 5.6 | 28 | C | 5.6 | 23 | 262 | -0.7 | -4.9 | 1.9 | 1 | C |
| 387 | 6.0 | 32 | C | 5.4 | 27 | 305 | 2.3 | -3.4 | 1.7 | 3 | C |
| 373 | 6.2 | 30 | C | 5.1 | 13 | 319 | 3.4 | -3.0 | 0.6 | 2 | C |
| 397 | 5.6 | 29 | C | 5.1 | 26 | 273 | 0.2 | -4.4 | 1.2 | 2 | C |
| 383 | 6.1 | 33 | C | 4.9 | 45 | 10 | 1.8 | -0.1 | 1.8 | 4 | C |
| 399 | 6.1 | 30 | C | 5.2 | -8 | 257 | -1.0 | -4.2 | -1.9 | 2 | C |
| 374 | 6.3 | 32 | C | 4.9 | 16 | 336 | 3.8 | -2.0 | 0.6 | 2 | C |
| 376 | 6.5 | 30 | C | 4.9 | 11 | 309 | 2.3 | -2.9 | -0.3 | 3 | C |
| 373 | 6.5 | 28 | C | 4.9 | 39 | 338 | 3.1 | -2.1 | 2.1 | 2 | C |
| 372 | 6.6 | 27 | C | 5.3 | 33 | 315 | 3.0 | -3.8 | 1.5 | 1 | C |

## JAN. 12, 1979

12

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 367 | 7.8 | 44 | C | 6.5 | 35 | 297 | 2.1 | -5.0 | 1.6 | 3 | C |
| 364 | 8.7 | 44 | C | 6.2 | 30 | 296 | 1.9 | -4.4 | 1.1 | 4 | C |
| 361 | 9.1 | 34 | C | 5.6 | -30 | 255 | -1.2 | -3.5 | -3.7 | 1 | C |
| 363 | 8.8 | 26 | C | 6.1 | -28 | 251 | -1.7 | -4.0 | -3.7 | 2 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | 6.1 | -41 | 5 | 4.3 | 0.6 | -3.7 | 0 | C |
| 355 | 10.9 | 31 | C | 7.7 | -14 | 296 | 3.1 | -6.2 | -1.8 | 2 | C |
| 361 | 10.7 | 30 | C | 7.6 | 16 | 280 | 1.2 | -7.0 | 2.2 | 1 | C |
| 362 | 11.1 | 30 | C | 7.5 | 32 | 279 | 1.0 | -6.0 | 4.2 | 1 | C |
| 343 | 12.6 | 87 | L | 7.7 | 20 | 279 | 1.1 | -6.7 | 2.9 | 2 | C |
| 359 | 12.9 | 38 | J | 7.5 | -23 | 293 | 2.4 | -5.7 | -2.3 | 4 | J |
| 377 | 11.1 | 70 | J | 6.3 | 6 | 284 | 1.1 | -4.3 | 0.6 | 4 | J |
| 381 | 11.9 | 78 | J | 5.6 | -12 | 289 | 1.5 | -4.2 | -1.0 | 3 | J |
| 382 | 12.2 | 81 | J | 7.3 | -61 | 343 | 1.6 | -0.3 | -3.0 | 6 | J |
| 380 | 11.7 | 75 | J | 6.4 | -6 | 281 | 1.1 | -5.6 | -1.1 | 2 | J |
| 376 | 12.3 | 82 | J | 6.4 | 0 | 295 | 2.5 | -5.3 | -0.8 | 3 | J |
| 382 | 11.6 | 75 | J | 6.2 | -48 | 301 | 1.1 | -1.4 | -2.8 | 5 | J |
| 364 | 11.1 | 66 | C | 6.0 | 3 | 347 | 4.9 | -1.2 | -0.0 | 3 | C |
| 377 | 12.0 | 78 | J | 5.6 | 1 | 305 | 2.5 | -3.5 | -1.0 | 3 | J |
| 381 | 12.9 | 85 | J | 6.0 | -13 | 298 | 2.7 | -4.4 | -2.9 | 1 | J |
| 383 | 13.9 | 92 | J | 6.3 | -29 | 312 | 3.0 | -2.3 | -3.6 | 4 | J |
| 381 | 13.3 | 79 | J | 6.5 | -54 | 13 | 3.3 | 2.4 | -4.1 | 3 | J |
| 403 | 13.1 | 67 | J | 6.8 | -54 | 124 | -1.5 | 3.4 | -2.6 | 5 | J |

## JAN. 14, 1979

14

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 345 | 15.6 | 51 | J | 5.4 | 8 | 154 | -4.4 | 1.7 | 1.4 | 2 | J |
| 344 | 15.5 | 52 | J | 6.0 | 9 | 186 | -5.7 | -0.9 | 0.7 | 1 | J |
| 355 | 16.1 | 34 | J | 7.0 | 2 | 203 | -6.2 | -2.6 | -0.6 | 2 | J |
| 356 | 16.9 | 32 | J | 7.2 | -14 | 201 | -6.4 | -2.0 | -2.3 | 1 | J |
| 357 | 14.9 | 30 | J | 8.8 | -24 | 192 | -7.8 | -0.9 | -3.8 | 1 | J |
| 370 | 13.0 | 37 | J | 9.6 | -31 | 190 | -8.0 | -0.8 | -5.0 | 2 | J |
| 374 | 14.1 | 29 | J | 10.2 | -29 | 198 | -8.4 | -2.4 | -5.1 | 1 | J |
| 378 | 16.6 | 21 | J | 10.2 | -25 | 198 | -8.8 | -2.7 | -4.4 | 1 | J |
| 371 | 17.1 | 21 | J | 10.4 | -26 | 195 | -8.9 | -2.4 | -4.5 | 1 | J |
| 367 | 15.7 | 65 | J | 9.4 | -25 | 126 | -2.1 | 2.8 | -1.7 | 9 | J |
| 348 | 14.3 | 110 | J | 9.7 | -29 | 144 | -5.4 | 3.8 | -3.9 | 6 | J |
| 339 | 11.8 | 66 | J | 10.1 | -30 | 159 | -7.8 | 2.8 | -4.9 | 3 | J |
| 336 | 12.0 | 58 | J | 10.3 | -26 | 181 | -8.8 | -0.2 | -4.3 | 3 | J |
| 354 | 12.3 | 101 | J | 9.8 | -46 | 192 | -5.4 | -1.0 | -5.8 | 6 | J |
| 377 | 11.0 | 119 | J | 8.5 | -4 | 232 | -3.4 | -4.4 | -0.7 | 6 | J |
| 369 | 8.5 | 125 | J | 8.6 | -6 | 190 | -7.3 | -1.2 | -0.9 | 4 | J |
| 408 | 8.0 | 171 | J | 7.8 | 48 | 166 | -2.1 | 0.1 | 2.4 | 7 | J |
| 382 | 7.2 | 114 | J | 8.1 | 5 | 133 | -4.5 | 4.6 | 1.6 | 5 | J |
| 384 | 7.6 | 112 | J | 8.9 | 3 | 134 | -5.9 | 5.8 | 2.0 | 3 | J |
| 373 | 7.9 | 70 | J | 10.0 | 11 | 151 | -8.1 | 3.7 | 3.1 | 3 | J |
| 368 | 7.5 | 64 | J | 9.8 | 7 | 145 | -7.8 | 4.7 | 3.0 | 2 | J |
| 354 | 8.0 | 74 | C | 9.6 | 3 | 151 | -8.1 | 4.0 | 2.1 | 2 | C |
| 377 | 7.6 | 83 | C | 9.4 | 7 | 114 | -3.3 | 6.6 | 3.8 | 4 | C |
| 385 | 7.5 | 77 | C | 9.2 | 9 | 101 | -1.7 | 7.6 | 4.7 | 2 | J |

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01/15/79 – 01/22/79

JAN. 15, 1979 15

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 8.3 | 67 | C | 10.5 | 7 | 123 | -5.5 | 7.4 | 4.3 | 2 | C |
| 2 | 363 | 8.0 | 64 | C | 11.2 | -7 | 136 | -2.8 | 2.7 | 0.5 | 11 | J |
| 3 | 363 | 9.9 | 53 | C | 11.1 | -12 | 118 | -4.9 | 9.3 | 0.6 | 3 | C |
| 4 | 372 | 18.3 | 40 | J | 10.6 | 31 | 89 | 0.1 | 6.8 | 7.0 | 4 | J |
| 5 | 354 | 17.2 | 43 | J | 10.1 | 9 | 112 | -3.5 | 8.2 | 3.2 | 3 | J |
| 6 | 347 | 18.4 | 53 | J | 9.4 | 25 | 119 | -3.6 | 6.0 | 4.3 | 4 | J |
| 7 | 350 | 17.4 | 54 | J | 9.1 | -12 | 132 | -4.6 | 5.3 | -1.1 | 6 | J |
| 8 | 353 | 17.2 | 48 | J | 9.1 | -45 | 217 | -4.8 | -3.4 | -6.1 | 3 | J |
| 9 | 334 | 17.1 | 47 | J | 9.6 | -26 | 157 | -7.2 | 3.0 | -3.8 | 4 | J |
| 10 | 358 | 12.6 | 68 | J | 10.3 | -27 | 139 | -6.1 | 5.2 | -4.3 | 5 | J |
| 11 | 373 | 7.0 | 57 | J | 12.9 | -38 | 166 | -9.6 | 2.1 | -7.8 | 3 | J |
| 12 | 372 | 8.1 | 58 | J | 12.7 | -44 | 199 | -8.4 | -3.1 | -8.5 | 3 | J |
| 13 | 388 | 9.1 | 101 | J | 10.6 | -30 | 156 | -6.7 | 3.0 | -4.3 | 7 | J |
| 14 | 410 | 11.3 | 133 | J | 9.2 | 4 | 130 | -5.4 | 6.4 | 0.8 | 4 | J |
| 15 | 412 | 11.8 | 162 | J | 8.6 | -16 | 136 | -4.7 | 4.7 | -1.6 | 5 | J |
| 16 | 457 | 8.9 | 240 | J | 9.2 | -2 | 111 | -2.4 | 6.1 | 0.5 | 7 | J |
| 17 | 496 | 7.6 | 253 | J | 8.9 | 26 | 115 | -3.0 | 5.8 | 4.5 | 4 | J |
| 18 | 497 | 7.4 | 194 | J | 8.8 | 4 | 135 | -4.8 | 4.6 | 1.5 | 6 | J |
| 19 | 489 | 6.8 | 173 | J | 9.3 | -28 | 138 | -5.2 | 5.6 | -2.4 | 5 | J |
| 20 | 478 | 6.7 | 153 | J | 9.2 | -36 | 155 | -6.2 | 4.3 | -3.8 | 3 | J |
| 21 | 468 | 6.8 | 155 | J | 9.0 | -41 | 175 | -6.2 | 2.4 | -4.9 | 3 | J |
| 22 | 433 | 5.8 | 105 | J | 8.9 | -11 | 147 | -6.7 | 4.6 | 0.2 | 3 | J |
| 23 | 471 | 5.6 | 127 | C | 8.6 | -7 | 116 | -3.1 | 6.1 | 1.7 | 3 | C |
| 24 | 461 | 5.3 | 128 | C | 8.5 | -18 | 136 | -4.6 | 4.9 | -0.2 | 4 | C |

JAN. 16, 1979 16

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 436 | 5.2 | 121 | C | 9.0 | -11 | 93 | -0.4 | 7.9 | 1.3 | 0 | C |
| 3 | 472 | 5.4 | 124 | C | 7.9 | -3 | 110 | -2.2 | 5.8 | 1.5 | 4 | C |
| 4 | 462 | 5.3 | 125 | C | 7.4 | -33 | 70 | 1.5 | 4.8 | -1.7 | 4 | C |
| 5 | | | | | | | | | | | | |
| 6 | 481 | 6.4 | 146 | J | 6.1 | -4 | 112 | -1.6 | 4.1 | 0.3 | 3 | J |
| 7 | 493 | 6.8 | 160 | J | 6.0 | 31 | 66 | 1.8 | 3.8 | 3.0 | 3 | J |
| 8 | 440 | 6.8 | 177 | J | 5.1 | -30 | 141 | -3.1 | 2.6 | -2.2 | 2 | J |
| 9 | 451 | 6.5 | 133 | J | 5.5 | -34 | 174 | -3.6 | 0.4 | -2.5 | 3 | J |
| 10 | 447 | 5.6 | 115 | J | 6.0 | -4 | 124 | -2.8 | 4.2 | -0.4 | 3 | J |
| 11 | 443 | 5.1 | 100 | J | 6.2 | -11 | 122 | -3.0 | 4.8 | -1.2 | 2 | J |
| 12 | 447 | 5.5 | 127 | J | 5.7 | 2 | 127 | -3.2 | 4.3 | 0.1 | 2 | J |
| 13 | 439 | 4.7 | 100 | J | 5.6 | -29 | 155 | -4.0 | 1.9 | -2.4 | 2 | J |
| 14 | 433 | 4.3 | 85 | J | 5.0 | -27 | 169 | -4.1 | 0.9 | -2.1 | 1 | J |
| 15 | 430 | 4.7 | 80 | J | 5.0 | -16 | 150 | -4.0 | 2.4 | -1.1 | 1 | J |
| 16 | 433 | 4.3 | 78 | J | 5.2 | -12 | 146 | -4.1 | 2.8 | -0.7 | 1 | J |
| 17 | 439 | 4.1 | 57 | J | 5.1 | -10 | 138 | -3.7 | 3.4 | -0.3 | 1 | J |
| 18 | 414 | 3.9 | 49 | C | 5.4 | -4 | 160 | -4.6 | 1.7 | 0.1 | 2 | C |
| 19 | 420 | 3.9 | 51 | C | 5.4 | -12 | 131 | -3.3 | 4.0 | -0.0 | 1 | C |
| 20 | 419 | 4.1 | 45 | C | 5.3 | -19 | 120 | -2.5 | 4.6 | -0.2 | 1 | C |
| 21 | 411 | 4.2 | 45 | J | 5.5 | -4 | 137 | -3.9 | 3.6 | 0.9 | 1 | J |
| 22 | 403 | 8.6 | 35 | J | 4.7 | 45 | 153 | -2.5 | 0.1 | 3.0 | 3 | J |
| 23 | 403 | 10.2 | 21 | C | 4.1 | 74 | 284 | 0.3 | -2.5 | 3.1 | 1 | C |
| 24 | 411 | 4.1 | 42 | C | 6.6 | 53 | 158 | -3.3 | -0.7 | 4.9 | 3 | C |

JAN. 17, 1979 17

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 412 | 5.8 | 27 | J | 6.5 | 51 | 146 | -3.3 | 0.2 | 5.5 | 1 | J |
| 2 | 413 | 5.5 | 28 | J | 6.7 | 55 | 155 | -3.5 | -0.4 | 5.7 | 1 | J |
| 3 | 407 | 6.2 | 17 | C | 7.2 | 57 | 171 | -3.8 | -1.3 | 5.8 | 1 | C |
| 4 | 408 | 6.6 | 16 | C | 7.2 | 54 | 195 | -4.0 | -2.5 | 5.2 | 0 | C |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 411 | 7.3 | 75 | J | 6.5 | 3 | 126 | -3.5 | 4.8 | 0.3 | 3 | J |
| 11 | 402 | 6.6 | 82 | J | 6.1 | -18 | 159 | -5.1 | 1.9 | -1.8 | 2 | J |
| 12 | 403 | 7.1 | 91 | J | 6.2 | -16 | 192 | -5.1 | -1.1 | -1.5 | 3 | J |
| 13 | 401 | 7.9 | 74 | J | 7.1 | -3 | 153 | -5.2 | 2.7 | -0.3 | 4 | J |
| 14 | 400 | 8.3 | 73 | J | 7.0 | -18 | 161 | -6.0 | 2.2 | -2.0 | 2 | J |
| 15 | 401 | 8.9 | 71 | J | 6.7 | -19 | 172 | -5.7 | 1.0 | -1.9 | 3 | J |
| 16 | 403 | 8.9 | 64 | J | 7.1 | -19 | 164 | -6.1 | 2.0 | -1.9 | 2 | J |
| 17 | 409 | 9.1 | 61 | J | 7.9 | -36 | 139 | -4.8 | 4.9 | -3.8 | 1 | J |
| 18 | 402 | 9.4 | 54 | J | 9.0 | -24 | 118 | -3.8 | 7.7 | -1.8 | 2 | J |
| 19 | 400 | 8.3 | 56 | C | 9.3 | -16 | 120 | -4.3 | 8.0 | -0.3 | 2 | C |
| 20 | 435 | 10.7 | 51 | J | 9.5 | -36 | 48 | 5.1 | 7.1 | -3.4 | 1 | J |
| 21 | 409 | 10.6 | 56 | J | 8.7 | -33 | 90 | 0.0 | 7.4 | -1.6 | 4 | J |
| 22 | 391 | 9.3 | 80 | J | 8.0 | 5 | 157 | -4.6 | 1.6 | 1.2 | 6 | J |
| 23 | 389 | 8.6 | 86 | J | 7.7 | 24 | 156 | -6.1 | 1.3 | 3.8 | 2 | J |
| 24 | 394 | 11.0 | 80 | J | 7.4 | -27 | 247 | -2.4 | -4.0 | -5.2 | 2 | J |

JAN. 18, 1979 18

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 10.5 | 84 | J | 7.1 | -24 | 241 | -3.0 | -3.9 | -4.7 | 2 | J |
| 2 | 385 | 10.3 | 90 | J | 7.1 | -4 | 228 | -4.3 | -4.3 | -2.1 | 3 | J |
| 3 | 389 | 10.6 | 77 | J | 7.4 | 1 | 241 | -3.2 | -5.4 | -1.7 | 3 | J |
| 4 | 384 | 9.1 | 68 | C | 8.1 | 5 | 238 | -4.0 | -6.3 | -1.1 | 2 | C |
| 5 | 379 | 9.0 | 64 | C | 8.1 | 12 | 209 | -6.2 | -3.8 | 0.8 | 3 | C |
| 6 | 373 | 9.3 | 56 | C | 8.1 | 24 | 212 | -5.7 | -3.9 | 2.4 | 3 | C |
| 7 | 373 | 9.7 | 54 | C | 8.2 | 40 | 172 | -5.9 | 0.3 | 4.9 | 2 | C |
| 8 | 372 | 10.7 | 50 | C | 8.7 | 43 | 126 | -3.5 | 4.6 | 5.9 | 2 | C |
| 9 | 381 | 10.3 | 57 | C | 9.1 | 28 | 107 | -2.3 | 7.4 | 4.2 | 2 | C |
| 10 | 402 | 11.9 | 57 | J | 8.3 | -2 | 92 | -0.3 | 7.8 | -0.3 | 3 | J |
| 11 | 400 | 12.5 | 52 | J | 9.6 | -19 | 96 | -0.9 | 8.4 | -3.0 | 3 | J |
| 12 | 392 | 12.9 | 51 | J | 9.4 | -4 | 102 | -1.9 | 8.8 | -0.7 | 2 | J |
| 13 | 395 | 13.1 | 46 | J | 9.5 | -31 | 97 | -1.0 | 7.9 | -4.6 | 2 | J |
| 14 | 375 | 13.3 | 67 | J | 8.9 | 39 | 199 | -5.8 | -2.2 | 4.9 | 4 | J |
| 15 | | | | | 8.8 | 29 | 146 | -6.4 | 3.9 | 4.6 | 0 | C |
| 16 | 379 | 12.9 | 41 | J | 9.9 | -30 | 121 | -4.2 | 7.5 | -3.7 | 3 | J |
| 17 | 386 | 14.4 | 62 | J | 9.1 | -24 | 117 | -3.7 | 7.8 | -2.2 | 2 | J |
| 18 | 384 | 15.8 | 64 | J | 8.8 | -7 | 128 | -4.3 | 5.5 | 0.5 | 5 | J |
| 19 | 373 | 15.1 | 55 | J | 8.8 | -17 | 135 | -5.3 | 5.7 | -0.7 | 4 | J |
| 20 | 369 | 14.9 | 52 | J | 8.8 | -6 | 140 | -6.0 | 5.0 | 0.9 | 4 | J |
| 21 | 371 | 15.1 | 42 | J | 10.4 | 23 | 142 | -7.3 | 3.9 | 5.7 | 3 | J |
| 22 | 366 | 15.8 | 37 | J | 11.4 | 21 | 155 | -8.7 | 2.3 | 5.0 | 5 | J |
| 23 | 394 | 13.6 | 50 | J | 11.7 | -25 | 123 | -5.7 | 10.0 | -0.9 | 2 | J |
| 24 | 396 | 14.6 | 71 | J | 11.6 | -9 | 129 | -6.7 | 8.3 | 1.8 | 4 | J |

JAN. 19, 1979 19

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 420 | 14.2 | 70 | J | 11.3 | -67 | 99 | -0.6 | 7.0 | -6.7 | 6 | J |
| 2 | 423 | 11.3 | 73 | J | 11.4 | -71 | 118 | -1.1 | 4.4 | -5.6 | 9 | J |
| 3 | 410 | 12.5 | 77 | J | 11.4 | -41 | 141 | -5.2 | 5.9 | -4.1 | 7 | J |
| 4 | 421 | 13.2 | 58 | J | 12.7 | -61 | 129 | -3.8 | 7.5 | -9.0 | 3 | J |
| 5 | 424 | 12.5 | 75 | J | 12.4 | -45 | 115 | -3.4 | 8.9 | -6.2 | 5 | J |
| 6 | | | | | | | | | | | | |
| 7 | 429 | 9.4 | 111 | C | 9.3 | 35 | 119 | -3.1 | 5.0 | 5.0 | 5 | C |
| 8 | 435 | 8.8 | 92 | C | 9.2 | 34 | 116 | -2.9 | 5.7 | 4.8 | 4 | C |
| 9 | 429 | 8.8 | 92 | C | 9.2 | 33 | 128 | -4.5 | 5.7 | 5.0 | 2 | C |
| 10 | 439 | 7.7 | 88 | C | 8.6 | 10 | 128 | -4.0 | 5.1 | 1.2 | 5 | C |
| 11 | 475 | 6.3 | 114 | C | 8.2 | -28 | 121 | -2.4 | 4.0 | -2.5 | 6 | C |
| 12 | 467 | 5.5 | 100 | C | 9.0 | 15 | 130 | -5.2 | 6.3 | 2.3 | 2 | C |
| 13 | 463 | 5.3 | 88 | C | 9.6 | 36 | 140 | -5.8 | 4.7 | 5.5 | 2 | C |
| 14 | 458 | 5.4 | 96 | C | 9.2 | 11 | 132 | -5.7 | 6.4 | 2.1 | 2 | C |
| 15 | 449 | 5.3 | 92 | C | 9.1 | -9 | 139 | -6.2 | 5.4 | -0.8 | 3 | C |
| 16 | 450 | 5.6 | 97 | C | 8.4 | -18 | 133 | -5.1 | 5.8 | -1.6 | 2 | C |
| 17 | 468 | 6.2 | 108 | C | 7.6 | 38 | 129 | -3.0 | 2.9 | 4.3 | 4 | C |
| 18 | 464 | 6.3 | 109 | C | 7.4 | 13 | 131 | -3.7 | 3.8 | 2.3 | 4 | C |
| 19 | 472 | 6.1 | 112 | C | 7.4 | -1 | 110 | -2.1 | 5.4 | 1.5 | 4 | C |
| 20 | 466 | 6.3 | 129 | C | 5.9 | -11 | 150 | -3.5 | 2.2 | -0.1 | 3 | C |
| 21 | 475 | 5.9 | 119 | C | 6.5 | 18 | 119 | -2.6 | 3.7 | 3.3 | 2 | C |
| 22 | 468 | 6.0 | 114 | C | 6.4 | 26 | 142 | -3.9 | 1.9 | 3.4 | 2 | C |
| 23 | | | | | | | | | | | | |
| 24 | 470 | 5.4 | 95 | C | 5.9 | -26 | 122 | -2.7 | 4.9 | -0.5 | 1 | C |

JAN. 20, 1979 20

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 453 | 5.2 | 83 | C | 6.4 | -9 | 138 | -4.2 | 3.7 | 1.1 | 3 | C |
| 2 | 448 | 5.2 | 72 | C | 6.8 | -7 | 136 | -4.3 | 4.2 | 0.9 | 2 | C |
| 3 | 439 | 5.1 | 70 | C | 6.7 | -29 | 158 | -5.0 | 2.9 | -2.1 | 2 | C |
| 4 | 436 | 5.2 | 68 | C | 6.6 | -5 | 145 | -4.9 | 3.4 | 0.5 | 2 | C |
| 5 | 456 | 5.3 | 62 | C | 7.0 | -23 | 103 | -1.3 | 5.9 | -1.1 | 3 | C |
| 6 | 444 | 5.5 | 65 | C | 7.0 | 2 | 140 | -4.1 | 3.4 | 0.7 | 4 | C |
| 7 | 458 | 5.1 | 66 | C | 7.3 | -20 | 105 | -1.6 | 5.9 | -1.4 | 3 | C |
| 8 | 460 | 5.1 | 56 | C | 7.3 | -30 | 88 | 0.2 | 6.3 | -3.1 | 1 | C |
| 9 | 434 | 4.6 | 76 | C | 6.5 | -13 | 127 | -3.2 | 4.3 | -1.1 | 3 | C |
| 10 | 431 | 4.5 | 66 | C | 6.7 | -8 | 152 | -5.8 | 3.1 | -0.8 | 1 | C |
| 11 | 442 | 4.8 | 74 | C | 6.8 | -17 | 130 | -3.7 | 4.5 | -1.7 | 2 | C |
| 12 | 448 | 4.5 | 80 | C | 6.3 | -13 | 130 | -3.6 | 4.3 | -1.3 | 2 | C |
| 13 | 445 | 4.8 | 74 | C | 6.1 | -24 | 130 | -3.4 | 4.1 | -2.3 | 1 | C |
| 14 | 454 | 5.0 | 66 | C | 6.2 | -27 | 114 | -2.2 | 5.0 | -2.4 | 1 | C |
| 15 | 448 | 4.8 | 67 | C | 6.0 | -14 | 121 | -2.9 | 4.9 | -0.9 | 2 | C |
| 16 | 437 | 5.0 | 69 | C | 6.2 | -7 | 133 | -4.0 | 4.4 | -0.1 | 2 | C |
| 17 | 428 | 5.0 | 68 | C | 6.3 | 3 | 176 | -6.0 | 0.3 | 0.4 | 2 | C |
| 18 | 429 | 5.3 | 87 | C | 5.8 | 1 | 164 | -5.0 | 1.4 | 0.5 | 2 | C |
| 19 | 435 | 5.3 | 77 | C | 5.9 | -2 | 136 | -3.3 | 3.1 | 0.8 | 3 | C |
| 20 | 434 | 5.5 | 77 | C | 5.8 | 2 | 139 | -4.1 | 3.2 | 1.4 | 2 | C |
| 21 | 435 | 5.5 | 80 | C | 5.4 | 2 | 156 | -4.3 | 1.7 | 0.8 | 2 | C |
| 22 | 441 | 5.9 | 83 | C | 5.4 | 22 | 114 | -1.5 | 2.6 | 2.8 | 3 | C |
| 23 | 443 | 6.3 | 80 | C | 5.4 | 20 | 115 | -1.6 | 2.7 | 2.7 | 3 | C |
| 24 | 437 | 6.3 | 76 | C | 5.2 | 6 | 124 | -1.8 | 2.3 | 1.4 | 3 | C |

JAN. 21, 1979 21

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 436 | 6.4 | 76 | C | 5.5 | 38 | 130 | -2.3 | 1.3 | 3.7 | 2 | C |
| 2 | 435 | 5.9 | 71 | C | 5.4 | -53 | 125 | -1.5 | 3.3 | -2.4 | 3 | C |
| 3 | 429 | 6.2 | 64 | C | 5.5 | -61 | 117 | -1.0 | 3.0 | -2.8 | 3 | C |
| 4 | 442 | 6.2 | 63 | C | 5.6 | -35 | 74 | 1.1 | 4.5 | -1.6 | 2 | C |
| 5 | 419 | 6.3 | 65 | C | 5.3 | -36 | 126 | -1.7 | 2.8 | -1.5 | 3 | C |
| 6 | 410 | 6.4 | 72 | C | 5.2 | -2 | 164 | -3.0 | 0.9 | 0.0 | 4 | C |
| 7 | 418 | 5.9 | 58 | C | 5.7 | -5 | 127 | -2.8 | 3.8 | 0.1 | 3 | C |
| 8 | 425 | 6.6 | 64 | C | 5.9 | -22 | 106 | -1.1 | 4.0 | -1.3 | 3 | C |
| 9 | 417 | 6.6 | 68 | C | 5.8 | -9 | 103 | -1.1 | 4.6 | -0.6 | 3 | C |
| 10 | 416 | 6.8 | 62 | C | 6.0 | -54 | 117 | -1.4 | 2.7 | -4.1 | 2 | C |
| 11 | 410 | 6.8 | 68 | C | 5.8 | -22 | 166 | -4.0 | 1.0 | -1.6 | 3 | C |
| 12 | 433 | 7.0 | 61 | C | 6.2 | -73 | 78 | 0.3 | 1.6 | -5.1 | 3 | C |
| 13 | 430 | 7.7 | 70 | C | 5.5 | -8[illegible] | 248 | -0.2 | -0.4 | -3.6 | 4 | C |
| 14 | 432 | 7.8 | 72 | C | 5.5 | -60 | 97 | -0.3 | 2.4 | -3.7 | 3 | C |
| 15 | 410 | 8.9 | 75 | C | 5.6 | 4 | 177 | -5.3 | 0.2 | 0.4 | 1 | C |
| 16 | 417 | 8.3 | 72 | C | 5.7 | 9 | 186 | -3.8 | -0.5 | 0.5 | 4 | C |
| 17 | 417 | 8.4 | 65 | C | 6.3 | -2 | 236 | -3.2 | -4.5 | -1.1 | 2 | C |
| 18 | 410 | 8.1 | 61 | C | 5.7 | 42 | 207 | -3.3 | -2.5 | 2.8 | 2 | C |
| 19 | 407 | 7.9 | 69 | C | 5.4 | 37 | 207 | -3.0 | -2.2 | 2.0 | 3 | C |
| 20 | 408 | 7.3 | 58 | C | 6.1 | -46 | 161 | -3.7 | 2.6 | -3.3 | 2 | C |
| 21 | 393 | 7.7 | 56 | C | 6.1 | -11 | 170 | -5.7 | 1.4 | -0.6 | 1 | C |
| 22 | 394 | 7.7 | 55 | C | 6.4 | 34 | 184 | -4.8 | -1.6 | 2.8 | 2 | C |
| 23 | 393 | 7.1 | 49 | C | 6.1 | -12 | 154 | -4.2 | 2.3 | -0.0 | 4 | C |
| 24 | 393 | 7.0 | 54 | C | 5.9 | 26 | 158 | -4.0 | 0.6 | 2.6 | 3 | C |

JAN. 22, 1979 22

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 399 | 6.8 | 48 | C | 6.3 | 48 | 161 | -3.9 | -0.6 | 4.7 | 1 | C |
| 2 | 393 | 7.0 | 62 | C | 5.8 | 31 | 162 | -4.4 | 0.2 | 3.2 | 1 | C |
| 3 | 391 | 6.9 | 55 | C | 5.8 | 25 | 156 | -4.2 | 1.0 | 2.7 | 3 | C |
| 4 | 398 | 6.9 | 64 | C | 5.1 | 31 | 156 | -3.1 | 0.7 | 2.4 | 3 | C |
| 5 | 401 | 7.1 | 82 | C | 4.3 | -2 | 172 | -3.2 | 0.5 | 0.0 | 2 | C |
| 6 | 398 | 7.2 | 79 | C | 4.6 | -5 | 180 | -3.9 | 0.1 | -0.4 | 2 | C |
| 7 | 395 | 7.5 | 79 | C | 4.7 | 33 | 175 | -3.2 | -0.0 | 2.1 | 2 | C |
| 8 | 390 | 7.4 | 76 | C | 4.8 | 7 | 180 | -4.5 | -0.0 | 0.6 | 1 | C |
| 9 | 391 | 7.5 | 75 | C | 4.7 | 12 | 164 | -4.2 | 1.2 | 1.0 | 1 | C |
| 10 | 387 | 7.0 | 72 | C | 4.8 | -2 | 164 | -4.1 | 1.2 | -0.1 | 2 | C |
| 11 | 396 | 7.0 | 81 | C | 4.7 | -24 | 158 | -3.5 | 1.4 | -1.6 | 2 | C |
| 12 | 396 | 7.2 | 74 | C | 4.8 | -49 | 154 | -2.6 | 1.4 | -3.3 | 1 | C |
| 13 | 388 | 7.4 | 79 | C | 4.7 | -16 | 184 | -4.3 | -0.2 | -1.3 | 1 | C |
| 14 | 387 | 7.5 | 78 | C | 5.2 | 27 | 174 | -4.1 | 0.3 | 2.1 | 2 | C |
| 15 | 386 | 7.5 | 77 | C | 5.3 | -11 | 155 | -4.1 | 2.0 | -0.7 | 3 | C |
| 16 | 391 | 8.1 | 70 | C | 5.8 | 6 | 121 | -1.7 | 2.8 | 0.8 | 4 | C |
| 17 | 390 | 8.9 | 74 | C | 5.6 | 2 | 102 | -1.0 | 4.3 | 1.1 | 3 | C |
| 18 | 385 | 9.4 | 64 | C | 6.7 | 6 | 118 | -3.1 | 5.3 | 2.2 | 2 | C |
| 19 | 404 | 10.2 | 68 | C | 8.8 | -33 | 95 | -0.6 | 8.0 | -2.2 | 3 | C |
| 20 | 407 | 11.6 | 63 | C | 10.1 | -85 | 81 | 0.1 | 4.2 | -8.8 | 2 | C |
| 21 | 410 | 12.6 | 57 | C | 10.1 | -77 | 9 | 1.9 | 3.6 | -7.7 | 4 | C |
| 22 | 394 | 12.6 | 43 | C | 11.7 | -47 | 110 | -2.3 | 8.7 | -4.0 | 6 | C |
| 23 | 405 | 10.9 | 33 | C | 12.6 | -57 | 106 | -1.8 | 10.1 | -6.6 | 3 | C |
| 24 | 421 | 9.5 | 77 | C | 12.1 | -42 | 119 | -4.1 | 10.0 | -3.8 | 4 | C |

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JAN. 23, 1979 23

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 10.8 | 102 | C | 10.2 | -1 | 99 | -1.4 | 8.3 | 3.7 | 3 | C |
| 2 | 419 | 11.1 | 92 | C | 10.0 | 9 | 112 | -3.7 | 7.7 | 5.0 | 1 | C |
| 3 | 417 | 10.8 | 80 | C | 10.1 | -12 | 115 | -4.1 | 9.0 | 1.2 | 1 | C |
| 4 | 405 | 8.8 | 125 | C | 9.8 | 6 | 119 | -4.5 | 7.5 | 3.5 | 2 | C |
| 5 | 434 | 8.5 | 122 | C | 9.3 | -18 | 104 | -1.9 | 7.8 | -0.5 | 4 | C |
| 6 | 426 | 8.1 | 90 | C | 10.2 | 5 | 96 | -1.1 | 9.1 | 2.6 | 3 | C |
| 7 | 413 | 8.8 | 80 | C | 10.3 | -21 | 115 | -3.7 | 8.4 | -2.3 | 3 | C |
| 8 | 410 | 8.2 | 57 | C | 10.7 | -8 | 104 | -2.4 | 9.9 | -0.5 | 3 | C |
| 9 | 411 | 7.8 | 38 | C | 12.0 | -9 | 106 | -3.3 | 11.4 | -1.3 | 1 | C |
| 10 | 414 | 8.1 | 38 | C | 13.2 | -16 | 110 | -3.9 | 10.6 | -3.0 | 6 | C |
| 11 | 431 | 9.5 | 28 | C | 14.5 | -19 | 98 | -1.8 | 13.2 | -4.2 | 3 | C |
| 12 | 438 | 9.4 | 29 | C | 14.6 | -38 | 92 | -0.3 | 11.4 | -8.5 | 2 | C |
| 13 | 435 | 6.1 | 28 | C | 14.1 | -42 | 110 | -3.3 | 9.6 | -8.3 | 5 | C |
| 14 | 432 | 10.6 | 28 | C | 13.1 | -52 | 115 | -3.1 | 7.5 | -9.1 | 4 | C |
| 15 | 421 | 10.2 | 31 | C | 12.7 | -55 | 128 | -4.3 | 6.6 | -9.2 | 3 | C |
| 16 | 426 | 6.3 | 31 | C | 12.9 | -44 | 114 | -3.7 | 9.6 | -7.2 | 2 | C |
| 17 | 414 | 5.1 | 31 | C | 12.8 | -44 | 126 | -5.3 | 9.1 | -7.0 | 2 | C |
| 18 | 415 | 8.9 | 28 | C | 12.5 | -53 | 155 | -6.7 | 5.6 | -8.7 | 2 | C |
| 19 | 425 | 8.6 | 37 | C | 13.4 | -45 | 133 | -6.3 | 9.3 | -6.6 | 3 | C |
| 20 | 426 | 8.0 | 34 | C | 13.6 | -46 | 142 | -7.2 | 8.7 | -6.9 | 2 | C |
| 21 |  |  |  |  | 13.6 | -49 | 173 | -8.3 | 4.7 | -8.4 | 0 | C |
| 22 | 414 | 8.0 | 27 | C | 13.8 | -38 | 250 | -3.7 | -5.8 | -11.8 | 1 | C |
| 23 | 414 | 10.0 | 78 | C | 11.8 | -31 | 264 | -1.0 | -6.3 | -9.8 | 1 | C |
| 24 | 425 | 13.0 | 69 | C | 11.6 | -38 | 256 | -2.1 | -4.7 | -10.0 | 3 | C |

JAN. 24, 1979 24

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 15.0 | 43 | C | 12.6 | -34 | 250 | -3.5 | -5.9 | -10.3 | 2 | C |
| 2 | 419 | 11.5 | 40 | C | 13.6 | -32 | 251 | -3.8 | -7.1 | -10.8 | 2 | C |
| 3 | 406 | 14.5 | 36 | C | 13.7 | -26 | 244 | -5.3 | -8.1 | -9.5 | 1 | C |
| 4 | 414 | 16.3 | 45 | C | 12.0 | -8 | 269 | -0.3 | -10.2 | -5.0 | 3 | C |
| 5 | 431 | 14.7 | 57 | C | 9.7 | 11 | 290 | 3.2 | -8.7 | -0.5 | 3 | C |
| 6 | 446 | 9.3 | 142 | C | 8.5 | -12 | 180 | -7.3 | 0.3 | -1.5 | 4 | C |
| 7 | 449 | 7.8 | 123 | C | 10.1 | -10 | 184 | -9.9 | -0.4 | -1.9 | 1 | C |
| 8 | 452 | 8.9 | 127 | C | 7.9 | -10 | 185 | -7.7 | -0.6 | -1.4 | 1 | C |
| 9 | 422 | 9.7 | 142 | C | 7.3 | -5 | 193 | -6.0 | -1.4 | -0.6 | 4 | C |
| 10 | 426 | 8.9 | 129 | C | 8.7 | 7 | 194 | -8.3 | -2.1 | 1.0 | 1 | C |
| 11 | 412 | 10.3 | 137 | C | 7.6 | 15 | 199 | -6.6 | -2.3 | 1.9 | 2 | C |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 441 | 9.8 | 122 | C | 5.3 | 37 | 198 | -3.6 | -1.9 | 2.4 | 0 | C |
| 19 | 432 | 10.1 | 115 | C | 8.0 | -10 | 167 | -7.2 | 2.0 | -0.6 | 2 | C |
| 20 | 454 | 12.5 | 106 | C | 5.7 | -13 | 151 | -4.5 | 2.7 | -0.2 | 3 | C |
| 21 | 441 | 9.3 | 76 | C | 9.5 | -1 | 145 | -7.7 | 5.0 | 2.0 | 2 | C |
| 22 | 439 | 8.6 | 73 | C | 9.1 | 8 | 143 | -7.1 | 4.4 | 3.4 | 1 | C |
| 23 | 437 | 11.2 | 76 | C | 7.1 | 0 | 141 | -4.5 | 3.3 | 1.6 | 4 | C |
| 24 | 436 | 17.9 | 55 | C | 5.6 | 34 | 109 | -1.5 | 2.5 | 4.5 | 1 | C |

JAN. 25, 1979 25

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 425 | 16.4 | 58 | C | 6.9 | 68 | 313 | 1.2 | -2.9 | 3.3 | 5 | C |
| 2 | 420 | 16.8 | 55 | C | 12.2 | 14 | 270 | 0.0 | -10.6 | -1.8 | 6 | C |
| 3 | 442 | 23.1 | 84 | C | 18.1 | -19 | 303 | 9.0 | -10.6 | -10.4 | 5 | C |
| 4 | 441 | 18.0 | 90 | C | 17.7 | -30 | 299 | 7.3 | -9.7 | -12.4 | 3 | C |
| 5 | 445 | 16.2 | 104 | C | 14.9 | -12 | 287 | 3.9 | -11.9 | -6.2 | 5 | C |
| 6 | 428 | 9.7 | 119 | C | 16.3 | 55 | 288 | 2.5 | -9.7 | 9.5 | 8 | C |
| 7 | 439 | 6.0 | 96 | C | 17.2 | 59 | 299 | 4.2 | -9.8 | 13.1 | 2 | C |
| 8 | 483 | 6.0 | 125 | C | 16.0 | 30 | 308 | 6.8 | -9.4 | 5.5 | 9 | C |
| 9 | 542 | 6.2 | 145 | C | 13.8 | 10 | 309 | 7.8 | -9.8 | 1.6 | 5 | J |
| 10 | 566 | 8.0 | 192 | C | 12.0 | 25 | 320 | 6.9 | -6.0 | 4.0 | 6 | J |
| 11 |  |  |  |  | 10.5 | -9 | 326 | 6.8 | -4.5 | -1.5 | 6 | J |
| 12 | 568 | 5.9 | 156 | C | 9.4 | -3 | 316 | 5.2 | -5.0 | -0.6 | 6 | J |
| 13 | 593 | 5.6 | 156 | C | 9.7 | -6 | 342 | 8.3 | -2.6 | -1.1 | 4 | J |
| 14 | 603 | 5.1 | 143 | C | 9.7 | -8 | 313 | 5.7 | -6.0 | -1.7 | 4 | J |
| 15 | 627 | 5.7 | 161 | C | 9.0 | -25 | 310 | 4.1 | -4.5 | -3.6 | 5 | J |
| 16 | 614 | 5.6 | 166 | C | 8.5 | -8 | 318 | 5.1 | -4.3 | -1.7 | 3 | C |
| 17 | 611 | 5.1 | 173 | C | 7.9 | -16 | 309 | 3.9 | -4.3 | -2.8 | 4 | J |
| 18 | 621 | 4.1 | 195 | C | 7.1 | -7 | 329 | 5.2 | -2.8 | -1.6 | 4 | J |
| 19 | 630 | 4.0 | 177 | C | 7.2 | 16 | 336 | 6.1 | -3.2 | 0.9 | 2 | J |
| 20 | 636 | 3.4 | 147 | C | 6.5 | -9 | 334 | 5.4 | -2.1 | -1.9 | 2 | J |
| 21 | 637 | 3.2 | 139 | C | 5.9 | -25 | 314 | 3.0 | -2.0 | -3.1 | 3 | J |
| 22 | 606 | 3.0 | 138 | C | 6.0 | -26 | 282 | 1.1 | -3.5 | -4.4 | 2 | J |
| 23 | 604 | 3.7 | 118 | C | 6.2 | -12 | 309 | 3.5 | -3.3 | -3.0 | 1 | C |
| 24 | 609 | 3.8 | 121 | C | 6.3 | -7 | 304 | 2.8 | -3.4 | -2.4 | 4 | J |

JAN. 26, 1979 26

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 649 | 4.2 | 162 | C | 5.7 | -19 | 315 | 2.9 | -2.0 | -2.6 | 4 | J |
| 2 | 612 | 4.1 | 166 | C | 5.9 | 11 | 299 | 2.4 | -4.4 | -0.9 | 3 | J |
| 3 | 605 | 4.2 | 153 | C | 6.3 | 2 | 300 | 2.3 | -3.8 | -1.4 | 4 | J |
| 4 |  |  |  |  | 6.0 | 39 | 326 | 3.2 | -3.1 | 2.3 | 3 | J |
| 5 |  |  |  |  | 5.7 | 3 | 302 | 2.4 | -3.7 | -0.8 | 3 | J |
| 6 |  |  |  |  | 5.4 | -14 | 296 | 1.7 | -3.2 | -1.7 | 4 | J |
| 7 |  |  |  |  | 5.3 | -22 | 300 | 1.9 | -2.9 | -2.0 | 3 | J |
| 8 | 579 | 3.8 | 139 | C | 5.8 | -25 | 254 | -1.2 | -4.0 | -2.5 | 3 | J |
| 9 | 592 | 4.4 | 150 | C | 5.3 | -4 | 270 | -0.0 | -4.5 | -0.6 | 3 | J |
| 10 |  |  |  |  | 5.6 | -35 | 273 | 0.2 | -3.8 | -2.9 | 3 | J |
| 11 |  |  |  |  | 6.3 | -14 | 306 | 3.3 | -4.5 | -1.6 | 2 | J |
| 12 |  |  |  |  | 6.5 | -5 | 321 | 4.9 | -3.9 | -0.7 | 2 | J |
| 13 | 543 | 2.8 | 98 | C | 5.9 | -1 | 314 | 3.8 | -3.9 | -0.3 | 2 | J |
| 14 | 537 | 2.8 | 83 | C | 5.3 | -29 | 293 | 1.4 | -3.0 | -2.2 | 3 | J |
| 15 | 521 | 3.2 | 73 | C | 5.1 | -17 | 257 | -0.9 | -3.8 | -1.8 | 3 | J |
| 16 | 549 | 3.6 | 81 | C | 5.4 | -47 | 290 | 1.1 | -2.4 | -4.1 | 2 | J |
| 17 | 534 | 3.4 | 84 | C | 5.3 | -23 | 291 | 1.5 | -3.3 | -2.6 | 3 | J |
| 18 | 541 | 3.6 | 84 | C | 5.7 | -84 | 224 | -0.4 | 1.0 | -4.8 | 3 | J |
| 19 | 514 | 3.9 | 85 | C | 5.4 | -42 | 277 | 0.4 | -2.0 | -3.7 | 3 | J |
| 20 | 515 | 3.8 | 91 | C | 5.2 | -33 | 295 | 1.7 | -2.4 | -3.8 | 2 | J |
| 21 | 514 | 4.1 | 66 | C | 6.1 | -60 | 205 | -2.4 | 0.9 | -4.7 | 3 | J |
| 22 | 500 | 4.2 | 85 | C | 6.0 | -58 | 294 | 1.1 | -0.4 | -5.1 | 3 | J |
| 23 | 498 | 4.7 | 81 | C | 5.9 | -75 | 282 | 0.3 | 1.1 | -5.2 | 2 | J |
| 24 | 502 | 5.4 | 98 | C | 4.6 | -65 | 329 | 1.0 | 0.6 | -2.5 | 4 | J |

JAN. 27, 1979 27

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 507 | 6.8 | 119 | J | 5.0 | -26 | 62 | 1.6 | 3.4 | -0.2 | 3 | J |
| 2 | 509 | 6.7 | 122 | J | 5.7 | -36 | 320 | 3.1 | -1.2 | -3.8 | 3 | J |
| 3 | 504 | 7.1 | 102 | J | 6.0 | -29 | 306 | 2.7 | -2.5 | -3.7 | 3 | J |
| 4 | 492 | 7.4 | 128 | J | 5.9 | -7 | 309 | 2.9 | -3.2 | -1.7 | 4 | J |
| 5 | 513 | 6.0 | 144 | J | 6.3 | -54 | 285 | 0.7 | -1.6 | -4.5 | 4 | J |
| 6 | 512 | 6.2 | 138 | J | 7.0 | -56 | 311 | 2.0 | -1.3 | -4.9 | 4 | J |
| 7 | 493 | 5.7 | 135 | J | 6.9 | -18 | 309 | 3.4 | -3.9 | -2.4 | 4 | J |
| 8 | 504 | 5.0 | 165 | J | 5.9 | -14 | 299 | 2.1 | -3.6 | -1.5 | 4 | J |
| 9 | 488 | 5.0 | 133 | J | 6.0 | -17 | 308 | 3.1 | -3.9 | -1.9 | 3 | J |
| 10 | 519 | 4.5 | 108 | J | 6.3 | -2 | 294 | 2.2 | -5.0 | -0.5 | 3 | J |
| 11 | 504 | 4.3 | 82 | J | 6.1 | 23 | 323 | 3.7 | -2.9 | 1.9 | 3 | J |
| 12 | 494 | 4.4 | 75 | J | 6.3 | 14 | 338 | 4.9 | -2.1 | 1.2 | 3 | J |
| 13 | 497 | 3.7 | 66 | J | 6.2 | 9 | 334 | 4.7 | -2.3 | 0.7 | 3 | J |
| 14 | 493 | 3.5 | 97 | J | 6.0 | 3 | 339 | 4.8 | -1.8 | 0.1 | 3 | J |
| 15 | 504 | 3.5 | 98 | J | 6.2 | 24 | 341 | 4.1 | -1.7 | 1.7 | 4 | J |
| 16 | 497 | 3.3 | 125 | J | 6.2 | 3 | 311 | 3.7 | -4.2 | -0.5 | 2 | J |
| 17 | 519 | 3.6 | 114 | J | 6.6 | -35 | 296 | 2.0 | -3.3 | -4.2 | 3 | J |
| 18 | 509 | 3.4 | 83 | J | 6.6 | -11 | 310 | 3.3 | -3.5 | -2.1 | 4 | J |
| 19 | 500 | 3.7 | 94 | J | 6.6 | -8 | 312 | 4.0 | -3.9 | -2.3 | 2 | J |
| 20 | 499 | 3.8 | 92 | J | 6.7 | -25 | 325 | 4.1 | -1.8 | -3.2 | 4 | J |
| 21 | 519 | 3.9 | 93 | J | 6.6 | -34 | 292 | 1.9 | -2.8 | -5.0 | 3 | J |
| 22 | 485 | 4.1 | 88 | J | 6.5 | -8 | 330 | 4.7 | -2.1 | -1.9 | 3 | J |
| 23 | 514 | 4.4 | 87 | J | 6.9 | 10 | 295 | 2.5 | -5.2 | -1.5 | 3 | J |
| 24 | 528 | 4.7 | 79 | J | 7.0 | -42 | 282 | 1.0 | -2.2 | -5.9 | 3 | J |

JAN. 28, 1979 28

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 500 | 4.0 | 81 | C | 7.1 | 25 | 323 | 4.2 | -3.9 | 0.8 | 4 | C |
| 2 | 480 | 4.0 | 75 | C | 7.1 | 20 | 320 | 4.3 | -4.1 | 0.4 | 3 | C |
| 3 | 492 | 4.4 | 78 | C | 6.9 | 23 | 312 | 3.8 | -4.7 | 0.6 | 2 | C |
| 4 | 531 | 6.0 | 127 | J | 6.0 | 23 | 290 | 1.2 | -3.7 | 0.3 | 5 | J |
| 5 | 519 | 6.0 | 117 | J | 5.4 | 9 | 286 | 0.9 | -3.2 | -0.4 | 4 | J |
| 6 | 516 | 6.0 | 113 | J | 5.7 | -5 | 265 | -0.4 | -4.1 | -1.3 | 4 | J |
| 7 | 565 | 5.9 | 203 | J | 5.7 | -39 | 276 | 0.1 | -1.1 | -1.3 | 5 | J |
| 8 | 496 | 5.7 | 83 | J | 6.1 | 22 | 315 | 3.5 | -3.7 | 1.6 | 3 | J |
| 9 | 490 | 5.6 | 119 | J | 5.7 | -12 | 31 | 4.2 | 2.6 | -0.8 | 3 | J |
| 10 | 485 | 4.5 | 91 | C | 5.6 | 2 | 301 | 2.0 | -3.3 | -0.1 | 4 | J |
| 11 | 469 | 5.5 | 96 | J | 5.7 | -16 | 333 | 4.3 | -2.1 | -1.5 | 3 | J |
| 12 | 460 | 5.0 | 43 | J | 5.7 | 4 | 349 | 5.3 | -1.0 | 0.3 | 2 | J |
| 13 | 474 | 5.0 | 94 | J | 6.0 | 25 | 323 | 4.1 | -3.2 | 2.1 | 2 | J |
| 14 | 469 | 4.9 | 66 | J | 7.0 | 22 | 324 | 4.8 | -3.7 | 2.0 | 3 | J |
| 15 | 455 | 4.5 | 53 | J | 6.9 | 3 | 322 | 5.0 | -3.9 | -0.2 | 2 | J |
| 16 | 456 | 4.9 | 44 | J | 7.5 | 16 | 334 | 5.9 | -3.2 | 1.3 | 3 | J |
| 17 | 475 | 5.1 | 61 | J | 7.3 | 18 | 304 | 3.6 | -5.6 | 0.7 | 3 | J |
| 18 | 470 | 4.9 | 69 | J | 7.0 | -1 | 298 | 3.0 | -5.4 | -1.8 | 3 | J |
| 19 | 484 | 5.3 | 101 | J | 6.9 | -13 | 289 | 2.0 | -5.1 | -3.4 | 2 | J |
| 20 | 478 | 5.3 | 83 | J | 6.6 | 16 | 317 | 3.3 | -3.3 | 0.0 | 5 | J |
| 21 | 475 | 5.5 | 116 | J | 6.4 | 2 | 303 | 3.0 | -4.3 | -1.8 | 3 | J |
| 22 | 459 | 3.7 | 72 | C | 7.4 | 28 | 337 | 5.9 | -3.8 | 1.9 | 1 | C |
| 23 | 459 | 3.6 | 87 | C | 7.3 | 13 | 312 | 4.7 | -5.4 | -0.9 | 1 | C |
| 24 | 466 | 3.5 | 96 | C | 7.7 | 11 | 315 | 4.7 | -4.8 | -1.0 | 3 | C |

JAN. 29, 1979 29

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 469 | 3.8 | 117 | C | 7.4 | 12 | 318 | 4.4 | -4.2 | -0.7 | 3 | C |
| 2 | 494 | 3.8 | 124 | C | 7.2 | -1 | 279 | 0.8 | -5.0 | -2.5 | 4 | C |
| 3 | 486 | 3.2 | 111 | C | 7.5 | -10 | 280 | 1.1 | -5.0 | -3.2 | 4 | C |
| 4 | 472 | 3.7 | 120 | C | 7.3 | -2 | 278 | 0.9 | -5.7 | -2.3 | 3 | C |
| 5 | 476 | 3.7 | 110 | C | 6.9 | 4 | 283 | 1.3 | -5.4 | -1.2 | 3 | C |
| 6 | 459 | 3.9 | 113 | C | 6.5 | 6 | 293 | 2.2 | -5.2 | -0.6 | 3 | C |
| 7 | 467 | 4.3 | 99 | J | 6.2 | 1 | 308 | 3.2 | -4.1 | -0.6 | 3 | J |
| 8 | 456 | 4.5 | 82 | J | 6.2 | -6 | 328 | 4.6 | -2.8 | -0.9 | 3 | J |
| 9 | 459 | 4.5 | 74 | J | 6.1 | 28 | 336 | 4.7 | -2.3 | 2.5 | 2 | J |
| 10 | 484 | 4.2 | 128 | L | 6.4 | 33 | 287 | 1.4 | -4.9 | 2.8 | 3 | J |
| 11 | 494 | 4.5 | 115 | J | 6.3 | 3 | 281 | 1.1 | -5.5 | -0.0 | 3 | J |
| 12 | 480 | 4.4 | 103 | J | 6.4 | -10 | 286 | 1.5 | -5.0 | -1.3 | 3 | J |
| 13 | 475 | 4.5 | 92 | J | 6.5 | 13 | 306 | 3.1 | -4.3 | 0.9 | 4 | J |
| 14 | 476 | 3.5 | 58 | J | 6.2 | 19 | 339 | 4.1 | -1.7 | 1.3 | 4 | J |
| 15 | 465 | 3.0 | 42 | J | 6.3 | 4 | 328 | 5.2 | -3.3 | -0.1 | 2 | J |
| 16 | 468 | 2.8 | 46 | J | 5.9 | -28 | 335 | 4.2 | -1.4 | -2.8 | 2 | J |
| 17 | 468 | 3.3 | 49 | J | 6.0 | -8 | 318 | 4.2 | -3.5 | -1.7 | 2 | J |
| 18 | 447 | 2.4 | 33 | J | 5.4 | 1 | 2 | 5.0 | 0.1 | 0.1 | 2 | J |
| 19 | 445 | 2.5 | 37 | J | 5.1 | 1 | 349 | 4.6 | -0.9 | -0.2 | 2 | J |
| 20 | 460 | 3.3 | 50 | J | 5.7 | 2 | 338 | 4.1 | -1.6 | -0.5 | 4 | J |
| 21 | 453 | 3.0 | 31 | J | 5.7 | 11 | 315 | 3.7 | -3.8 | -0.6 | 2 | J |
| 22 | 480 | 3.6 | 57 | J | 6.4 | 20 | 299 | 2.7 | -5.3 | -0.4 | 2 | J |
| 23 | 477 | 4.2 | 53 | J | 6.6 | 8 | 295 | 2.5 | -5.2 | -1.7 | 2 | J |
| 24 | 461 | 4.0 | 52 | J | 6.5 | -34 | 294 | 1.9 | -2.4 | -4.8 | 3 | J |

JAN. 30, 1979 30

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 480 | 4.2 | 79 | J | 6.5 | 11 | 285 | 1.6 | -5.8 | -1.6 | 2 | J |
| 2 | 470 | 4.3 | 69 | J | 6.8 | 11 | 287 | 1.9 | -6.1 | -1.5 | 2 | J |
| 3 | 472 | 4.2 | 58 | J | 6.8 | 17 | 295 | 2.7 | -6.2 | -0.5 | 1 | J |
| 4 | 474 | 4.0 | 77 | C | 6.8 | 7 | 299 | 2.8 | -5.0 | -1.1 | 3 | C |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  | 7.0 | 20 | 264 | -0.6 | -6.7 | 0.7 | 0 | C |
| 7 | 472 | 3.6 | 90 | C | 6.7 | 5 | 289 | 1.3 | -3.7 | -0.4 | 5 | C |
| 8 | 476 | 3.8 | 93 | C | 6.6 | -35 | 311 | 2.4 | -2.4 | -2.9 | 4 | C |
| 9 | 520 | 8.5 | 208 | J | 7.9 | -29 | 82 | 0.7 | 5.0 | -2.2 | 6 | J |
| 10 | 486 | 7.1 | 239 | J | 8.3 | 0 | 5 | 4.9 | 0.4 | 0.0 | 7 | J |
| 11 | 502 | 6.2 | 160 | J | 9.8 | 19 | 303 | 4.4 | -7.0 | 2.4 | 5 | J |
| 12 | 546 | 6.0 | 166 | J | 8.5 | -17 | 278 | 1.1 | -7.4 | -2.9 | 3 | J |
| 13 | 549 | 5.4 | 135 | J | 8.5 | 3 | 274 | 0.5 | -7.4 | -0.3 | 4 | J |
| 14 | 500 | 4.0 | 109 | C | 8.1 | 45 | 318 | 3.3 | -3.4 | 4.0 | 4 | C |
| 15 | 506 | 5.6 | 116 | J | 8.7 | 25 | 335 | 5.5 | -3.0 | 2.4 | 5 | J |
| 16 | 474 | 4.8 | 56 | J | 8.2 | 18 | 347 | 6.9 | -2.0 | 1.9 | 4 | J |
| 17 | 475 | 4.7 | 55 | J | 7.8 | 33 | 9 | 5.9 | -0.1 | 4.0 | 3 | J |
| 18 | 465 | 5.1 | 53 | J | 7.4 | 5 | 326 | 5.5 | -3.7 | -0.6 | 3 | J |
| 19 | 462 | 5.1 | 52 | J | 7.3 | -7 | 323 | 5.3 | -3.5 | -2.2 | 3 | J |
| 20 | 459 | 4.9 | 49 | J | 7.0 | 19 | 333 | 5.7 | -3.6 | 0.9 | 2 | J |
| 21 | 478 | 6.0 | 110 | J | 6.5 | -3 | 312 | 4.0 | -3.9 | -2.2 | 2 | J |
| 22 | 488 | 6.5 | 95 | J | 6.3 | -17 | 290 | 1.8 | -3.8 | -3.7 | 3 | J |
| 23 | 482 | 6.8 | 101 | J | 6.1 | 5 | 298 | 2.5 | -4.3 | -1.8 | 3 | J |
| 24 | 485 | 7.1 | 98 | J | 6.2 | 11 | 294 | 2.2 | -4.9 | -1.4 | 3 | J |

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01/31/79 – 02/07/79

### JAN. 31, 1979

31

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 7.0 | 87 | J | 6.0 | -28 | 329 | 3.9 | -1.0 | -3.3 | 3 | J |
| 2 | 468 | 6.7 | 78 | J | 5.6 | 14 | 316 | 3.1 | -3.2 | -0.3 | 3 | J |
| 3 | 462 | 7.0 | 91 | J | 5.5 | 2 | 320 | 3.4 | -2.7 | -1.0 | 3 | J |
| 4 | 471 | 7.5 | 94 | J | 5.6 | 27 | 291 | 1.7 | -5.0 | 0.7 | 1 | J |
| 5 | 455 | 6.0 | 88 | C | 5.2 | 2 | 324 | 3.5 | -2.5 | -0.6 | 2 | C |
| 6 | 459 | 5.8 | 85 | C | 5.3 | 35 | 325 | 3.0 | -2.7 | 2.0 | 2 | C |
| 7 | 465 | 5.8 | 88 | C | 5.0 | 7 | 312 | 2.1 | -2.4 | -0.0 | 3 | C |
| 8 | 446 | 6.0 | 80 | C | 5.5 | -2 | 313 | 3.5 | -3.6 | -0.7 | 2 | C |
| 9 | 461 | 7.9 | 69 | J | 6.9 | 48 | 342 | 4.3 | -1.9 | 4.9 | 1 | J |
| 10 | 466 | 8.9 | 101 | J | 6.1 | 10 | 314 | 3.4 | -3.5 | 0.6 | 4 | J |
| 11 | 467 | 8.2 | 90 | J | 6.5 | 28 | 337 | 3.3 | -1.5 | 1.8 | 5 | J |
| 12 | 468 | 8.8 | 108 | J | 6.1 | 5 | 295 | 1.8 | -3.9 | 0.1 | 4 | J |
| 13 | 460 | 7.5 | 106 | C | 6.0 | 4 | 297 | 2.2 | -4.3 | -0.0 | 3 | C |
| 14 | 461 | 6.8 | 89 | C | 6.7 | 34 | 320 | 2.9 | -2.7 | 2.2 | 4 | C |
| 15 | 436 | 7.6 | 98 | J | 6.2 | 17 | 351 | 5.0 | -1.0 | 1.4 | 3 | J |
| 16 | 451 | 6.9 | 110 | J | 6.2 | 22 | 353 | 4.9 | -1.0 | 1.8 | 3 | C |
| 17 | 440 | 6.3 | 88 | C | 6.2 | 4 | 318 | 3.8 | -3.4 | -0.6 | 3 | C |
| 18 | 427 | 6.1 | 80 | C | 6.3 | 13 | 341 | 5.5 | -2.2 | 0.4 | 2 | C |
| 19 | 421 | 4.2 | 60 | C | 7.7 | 28 | 333 | 5.8 | -4.0 | 2.2 | 2 | C |
| 20 | 446 | 3.4 | 97 | C | 7.3 | -8 | 306 | 3.5 | -4.1 | -2.7 | 4 | C |
| 21 | 478 | 2.6 | 145 | C | 7.3 | -21 | 294 | 2.7 | -4.4 | -4.9 | 1 | C |
| 22 | 482 | 3.0 | 121 | C | 6.8 | -14 | 286 | 1.7 | -4.6 | -4.1 | 2 | C |
| 23 | 497 | 2.8 | 153 | C | 7.3 | -16 | 296 | 3.0 | -4.5 | -4.6 | 2 | C |
| 24 | 491 | 2.5 | 139 | C | 7.6 | 1 | 319 | 5.7 | -4.4 | -2.1 | 1 | C |

### FEB. 1, 1979

32

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 488 | 2.5 | 121 | C | 7.6 | 6 | 324 | 6.0 | -4.2 | -1.3 | 1 | C |
| 2 | 460 | 2.5 | 102 | C | 7.3 | -1 | 344 | 6.9 | -1.7 | -1.0 | 1 | C |
| 3 | 468 | 3.4 | 123 | C | 6.9 | 29 | 12 | 4.7 | -0.1 | 2.8 | 3 | C |
| 4 | 465 | 3.0 | 133 | C | 7.1 | 24 | 328 | 5.3 | -4.1 | 1.4 | 2 | C |
| 5 | 459 | 2.9 | 112 | C | 7.3 | 18 | 344 | 6.1 | -2.3 | 1.4 | 3 | C |
| 6 | 466 | 3.1 | 142 | C | 6.3 | 14 | 356 | 5.4 | -0.6 | 1.2 | 3 | C |
| 7 | 462 | 2.7 | 120 | C | 6.4 | 11 | 353 | 6.1 | -1.0 | 1.0 | 1 | C |
| 8 | 514 | 2.0 | 119 | C | 7.4 | 11 | 352 | 7.2 | -1.2 | 1.2 | 1 | C |
| 9 | 495 | 3.0 | 164 | C | 5.7 | -11 | 57 | 2.2 | 3.5 | -0.4 | 4 | C |
| 10 | 518 | 3.1 | 169 | C | 7.0 | 25 | 55 | 2.1 | 2.9 | 2.0 | 5 | C |
| 11 | 512 | 2.1 | 161 | C | 7.6 | 29 | 345 | 5.6 | -1.7 | 3.0 | 4 | C |
| 12 | 502 | 2.1 | 196 | C | 7.9 | 34 | 347 | 6.3 | -1.8 | 4.2 | 1 | C |
| 13 | 501 | 2.1 | 186 | C | 8.0 | 32 | 338 | 6.1 | -2.9 | 3.8 | 2 | C |
| 14 | 495 | 2.1 | 166 | C | 7.9 | 15 | 329 | 6.0 | -3.8 | 1.4 | 3 | C |
| 15 | 498 | 1.6 | 150 | C | 7.8 | 43 | 343 | 5.3 | -2.5 | 4.9 | 1 | C |
| 16 | 518 | 1.5 | 159 | C | 7.8 | 54 | 322 | 3.6 | -4.0 | 5.5 | 1 | C |
| 17 | 491 | 1.4 | 145 | C | 7.8 | 41 | 330 | 4.8 | -4.0 | 3.9 | 2 | C |
| 18 | 480 | 1.3 | 134 | C | 7.7 | 31 | 324 | 5.3 | -4.8 | 2.5 | 1 | C |
| 19 | 467 | 1.4 | 123 | C | 7.6 | 29 | 337 | 5.8 | -3.5 | 2.4 | 2 | C |
| 20 | 485 | 1.3 | 122 | C | 7.5 | 38 | 328 | 4.9 | -4.5 | 2.8 | 1 | C |
| 21 | 462 | 1.4 | 129 | C | 7.4 | 23 | 338 | 5.6 | -3.1 | 1.4 | 3 | C |
| 22 | 475 | 1.5 | 123 | C | 7.4 | 31 | 306 | 3.5 | -5.9 | 1.0 | 2 | C |
| 23 | 491 | 1.5 | 126 | C | 7.2 | 15 | 302 | 3.3 | -5.5 | -1.1 | 3 | C |
| 24 | 480 | 1.5 | 132 | C | 7.1 | 24 | 311 | 4.1 | -5.4 | 0.2 | 1 | C |

### FEB. 2, 1979

33

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 474 | 1.5 | 115 | C | 6.9 | -5 | 301 | 3.4 | -4.6 | -3.0 | 2 | C |
| 2 | 489 | 1.6 | 92 | C | 6.8 | -17 | 296 | 2.7 | -4.1 | -4.1 | 2 | C |
| 3 | 499 | 1.7 | 120 | C | 6.8 | -19 | 295 | 2.6 | -4.2 | -4.2 | 1 | C |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 437 | 1.7 | 104 | C | 6.1 | 21 | 327 | 4.5 | -3.1 | 1.7 | 2 | C |
| 10 | 447 | 1.5 | 102 | C | 6.1 | -7 | 318 | 4.0 | -3.6 | -1.0 | 2 | C |
| 11 | 430 | 1.5 | 95 | C | 6.1 | 1 | 328 | 5.0 | -3.1 | -0.1 | 1 | C |
| 12 | 443 | 1.5 | 95 | C | 6.1 | 2 | 319 | 4.3 | -3.7 | -0.1 | 2 | C |
| 13 | 441 | 1.5 | 84 | C | 6.3 | 2 | 313 | 4.1 | -4.4 | -0.2 | 1 | C |
| 14 | 430 | 1.6 | 76 | C | 6.5 | 2 | 321 | 4.9 | -3.9 | -0.3 | 1 | C |
| 15 | 429 | 1.5 | 78 | C | 6.7 | 18 | 317 | 4.6 | -4.6 | 1.3 | 1 | C |
| 16 | 457 | 1.7 | 69 | C | 6.5 | -40 | 319 | 3.5 | -2.1 | -4.4 | 2 | C |
| 17 | 441 | 1.5 | 68 | C | 6.6 | -23 | 324 | 4.6 | -2.5 | -3.2 | 2 | C |
| 18 | 444 | 1.5 | 69 | C | 6.8 | -21 | 318 | 4.5 | -3.1 | -3.5 | 1 | C |
| 19 | 414 | 1.4 | 61 | C | 6.7 | -5 | 347 | 6.2 | -1.1 | -1.1 | 2 | C |
| 20 | 426 | 1.4 | 69 | C | 6.6 | -10 | 339 | 5.3 | -1.4 | -1.7 | 3 | C |
| 21 | 459 | 1.2 | 74 | C | 6.8 | -18 | 312 | 4.0 | -3.1 | -3.8 | 1 | C |
| 22 | 441 | 1.2 | 71 | C | 6.6 | -17 | 316 | 4.3 | -2.9 | -3.6 | 2 | C |
| 23 | 423 | 1.2 | 67 | C | 6.6 | -5 | 317 | 4.2 | -3.2 | -2.3 | 3 | C |
| 24 | 386 | 1.2 | 51 | C | 6.6 | -6 | 348 | 6.0 | -0.9 | -1.2 | 2 | C |

### FEB. 3, 1979

34

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 419 | 1.1 | 64 | C | 6.6 | 16 | 326 | 5.1 | -3.9 | -0.0 | 1 | C |
| 2 | 428 | 1.0 | 61 | C | 6.4 | -3 | 314 | 4.2 | -3.8 | -2.2 | 2 | C |
| 3 | 410 | 1.1 | 55 | C | 6.2 | 3 | 324 | 4.5 | -3.1 | -1.0 | 3 | C |
| 4 | 399 | 1.6 | 40 | C | 6.1 | 1 | 324 | 4.8 | -3.3 | -1.2 | 1 | C |
| 5 | 388 | 1.7 | 38 | C | 6.4 | 7 | 335 | 5.7 | -2.8 | -0.1 | 0 | C |
| 6 | 381 | 1.8 | 32 | C | 6.4 | 5 | 335 | 5.6 | -2.7 | -0.1 | 1 | C |
| 7 | 385 | 1.9 | 33 | C | 6.2 | 19 | 329 | 5.0 | -3.3 | 1.4 | 0 | C |
| 8 | 390 | 1.9 | 34 | C | 6.2 | 28 | 328 | 4.6 | -3.3 | 2.5 | 1 | C |
| 9 | 374 | 1.9 | 33 | C | 6.3 | 16 | 332 | 5.3 | -3.0 | 1.3 | 0 | C |
| 10 | 369 | 2.1 | 39 | C | 6.3 | 14 | 333 | 5.4 | -2.9 | 1.3 | 1 | C |
| 11 | 371 | 2.7 | 22 | C | 6.2 | 25 | 328 | 4.8 | -3.2 | 2.3 | 1 | C |
| 12 | 369 | 2.9 | 23 | C | 6.3 | 17 | 333 | 5.3 | -2.9 | 1.6 | 1 | C |
| 13 | 361 | 3.0 | 22 | C | 6.1 | 7 | 332 | 5.3 | -2.9 | 0.4 | 1 | C |
| 14 | 360 | 2.7 | 28 | C | 6.0 | -2 | 329 | 5.2 | -3.1 | -0.6 | 0 | C |
| 15 | 374 | 3.2 | 34 | C | 5.7 | 0 | 323 | 4.4 | -3.2 | -0.6 | 1 | C |
| 16 | 369 | 3.4 | 31 | C | 5.7 | -10 | 319 | 4.3 | -3.3 | -1.7 | 1 | C |
| 17 | 364 | 3.6 | 33 | C | 5.7 | -13 | 327 | 4.5 | -2.5 | -2.0 | 1 | C |
| 18 | 372 | 4.9 | 31 | C | 6.0 | -12 | 318 | 4.2 | -3.2 | -2.3 | 1 | C |
| 19 | 382 | 8.3 | 33 | C | 7.1 | -13 | 305 | 3.7 | -4.3 | -3.2 | 3 | C |
| 20 | 449 | 20.0 | 116 | C | 14.1 | 14 | 356 | 4.9 | -0.8 | 1.0 | 12 | C |
| 21 | 462 | 33.6 | 81 | C | 8.7 | 36 | 314 | 2.0 | -2.8 | 0.9 | 7 | C |
| 22 | 457 | 34.1 | 65 | C | 5.7 | 13 | 334 | 2.8 | -1.6 | -0.0 | 5 | C |
| 23 | 450 | 30.2 | 52 | C | 5.6 | 36 | 298 | 1.8 | -4.5 | 0.8 | 3 | C |
| 24 | 446 | 24.7 | 68 | C | 5.4 | 15 | 288 | 1.6 | -4.8 | -1.1 | 1 | C |

### FEB. 4, 1979

35

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 442 | 20.9 | 70 | C | 5.4 | -16 | 294 | 1.6 | -2.6 | -2.7 | 3 | C |
| 2 | 428 | 15.1 | 60 | C | 8.8 | -12 | 292 | 2.8 | -5.4 | -4.4 | 4 | C |
| 3 | 411 | 13.1 | 54 | C | 9.5 | 9 | 294 | 3.8 | -8.2 | -2.2 | 2 | C |
| 4 | 412 | 17.4 | 55 | C | 6.3 | 36 | 304 | 2.4 | -4.4 | 1.6 | 4 | C |
| 5 | 408 | 16.9 | 48 | C | 7.0 | -11 | 306 | 4.0 | -4.7 | -2.9 | 2 | C |
| 6 | 404 | 21.4 | 45 | C | 4.7 | -36 | 298 | 1.2 | -1.7 | -2.4 | 3 | C |
| 7 | 399 | 18.1 | 41 | C | 6.5 | -18 | 322 | 4.6 | -3.2 | -2.6 | 2 | C |
| 8 | 381 | 10.4 | 46 | C | 8.2 | 1 | 325 | 6.6 | -4.7 | -0.6 | 1 | C |
| 9 | 387 | 11.5 | 43 | C | 6.6 | 46 | 338 | 3.6 | -1.9 | 3.8 | 3 | C |
| 10 | 379 | 8.0 | 43 | C | 7.1 | -21 | 326 | 4.8 | -3.0 | -2.5 | 3 | C |
| 11 | 360 | 8.7 | 50 | C | 6.7 | 19 | 327 | 4.9 | -3.3 | 1.7 | 3 | C |
| 12 | 362 | 9.6 | 42 | C | 6.4 | 12 | 321 | 4.4 | -3.6 | 0.9 | 3 | C |
| 13 | 368 | 10.9 | 34 | C | 6.8 | 17 | 306 | 3.4 | -4.8 | 1.2 | 3 | C |
| 14 | 388 | 13.3 | 34 | C | 7.7 | -60 | 334 | 3.4 | -0.7 | -6.7 | 1 | C |
| 15 | 401 | 7.4 | 59 | C | 9.2 | -5 | 297 | 3.2 | -6.0 | -1.8 | 6 | C |
| 16 | 427 | 9.2 | 47 | C | 9.1 | -75 | 145 | -1.9 | 3.3 | -8.0 | 2 | C |
| 17 | 424 | 11.9 | 37 | C | 9.1 | -34 | 127 | -4.3 | 6.8 | -3.1 | 3 | C |
| 18 | 417 | 13.1 | 17 | C | 9.4 | -23 | 123 | -4.6 | 8.0 | -1.1 | 1 | C |
| 19 | 412 | 12.8 | 22 | C | 8.9 | -23 | 123 | -4.3 | 7.6 | -0.6 | 1 | C |
| 20 | 404 | 11.0 | 23 | C | 8.6 | -33 | 126 | -4.1 | 7.0 | -1.7 | 2 | C |
| 21 | 410 | 9.5 | 18 | C | 8.5 | -53 | 125 | -2.9 | 6.7 | -4.1 | 1 | C |
| 22 | 415 | 8.7 | 17 | C | 7.7 | -82 | 5 | 1.0 | 3.6 | -6.5 | 1 | C |
| 23 | 424 | 6.9 | 24 | C | 7.0 | -37 | 351 | 5.3 | 1.3 | -3.9 | 2 | C |
| 24 | 423 | 6.2 | 22 | C | 7.0 | -23 | 11 | 6.2 | 2.3 | -1.8 | 2 | C |

### FEB. 5, 1979

36

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 423 | 6.2 | 25 | C | 7.0 | -18 | 9 | 6.5 | 1.9 | -1.4 | 1 | C |
| 2 | 422 | 5.7 | 29 | C | 6.6 | -18 | 6 | 6.2 | 1.5 | -1.5 | 1 | C |
| 3 | 415 | 5.4 | 28 | C | 6.6 | -18 | 7 | 6.0 | 1.5 | -1.5 | 2 | C |
| 4 | 418 | 5.3 | 27 | C | 6.5 | -25 | 22 | 5.1 | 2.9 | -1.6 | 2 | C |
| 5 | 415 | 5.1 | 28 | C | 7.0 | -22 | 10 | 6.3 | 1.8 | -2.1 | 1 | C |
| 6 | 414 | 4.9 | 29 | C | 7.1 | -27 | 354 | 6.3 | 0.2 | -3.3 | 0 | C |
| 7 | 413 | 4.3 | 26 | C | 7.4 | -31 | 16 | 6.0 | 2.5 | -3.3 | 1 | C |
| 8 | 418 | 4.6 | 30 | C | 7.8 | -33 | 42 | 4.5 | 4.7 | -3.2 | 3 | C |
| 9 | 417 | 5.6 | 39 | C | 8.3 | -18 | 65 | 3.0 | 6.7 | -1.5 | 3 | C |
| 10 | 417 | 6.0 | 25 | C | 8.6 | -36 | 8 | 6.7 | 1.5 | -4.8 | 1 | C |
| 11 | 410 | 4.2 | 33 | C | 8.6 | -37 | 360 | 6.8 | 0.5 | -5.1 | 1 | C |
| 12 | 349 | 5.1 | 213 | L | 8.3 | -27 | 356 | 7.4 | -0.1 | -3.8 | 1 | C |
| 13 | 350 | 5.8 | 195 | L | 7.8 | -22 | 355 | 7.2 | -0.3 | -3.0 | 1 | C |
| 14 | 359 | 7.8 | 191 | L | 7.4 | -23 | 344 | 6.5 | -1.4 | -3.1 | 1 | C |
| 15 | 350 | 5.9 | 184 | L | 7.4 | 12 | 21 | 6.5 | 2.2 | 2.0 | 2 | C |
| 16 | 360 | 6.6 | 151 | L | 7.1 | 9 | 17 | 6.6 | 1.7 | 1.5 | 1 | C |
| 17 | 385 | 5.0 | 21 | C | 7.2 | 4 | 6 | 7.1 | 0.6 | 0.7 | 1 | C |
| 18 | 383 | 5.4 | 17 | C | 6.9 | -1 | 7 | 6.8 | 0.8 | 0.1 | 0 | C |
| 19 | 379 | 5.9 | 18 | C | 6.6 | 1 | 9 | 6.5 | 1.0 | 0.5 | 0 | C |
| 20 | 377 | 5.4 | 21 | C | 6.5 | -7 | 5 | 6.3 | 0.8 | -0.5 | 1 | C |
| 21 | 374 | 5.2 | 19 | C | 6.4 | 3 | 16 | 6.1 | 1.4 | 1.0 | 0 | C |
| 22 | 345 | 8.2 | 165 | L | 6.7 | 8 | 16 | 6.3 | 1.2 | 1.7 | 1 | C |
| 23 | 375 | 5.7 | 22 | C | 7.7 | 14 | 15 | 7.2 | 0.7 | 2.6 | 0 | C |
| 24 | 413 | 6.8 | 30 | C | 8.5 | 36 | 291 | 1.8 | -5.9 | 0.9 | 6 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 8.9 | 26 | C | 10.0 | 44 | 327 | 5.5 | -6.2 | 3.9 | 4 | C |
| 2 | 387 | 9.6 | 25 | C | 9.6 | 32 | 347 | 7.6 | -3.8 | 3.5 | 3 | C |
| 3 | 393 | 9.0 | 31 | C | 8.8 | -38 | 354 | 6.4 | 1.5 | -4.9 | 3 | C |
| 4 | 416 | 10.8 | 40 | L | 8.3 | -63 | 33 | 2.9 | 4.3 | -5.5 | 3 | C |
| 5 | 422 | 11.2 | 32 | J | 7.5 | -43 | 273 | 0.3 | -3.3 | -6.2 | 2 | C |
| 6 | 390 | 12.8 | 85 | J | 7.2 | -46 | 337 | 3.9 | -0.4 | -4.6 | 4 | C |
| 7 | 384 | 12.0 | 80 | J | 7.7 | -20 | 336 | 6.2 | -2.2 | -3.0 | 2 | C |
| 8 | 380 | 8.9 | 28 | C | 8.1 | -48 | 341 | 5.0 | -0.7 | -6.1 | 1 | C |
| 9 | 371 | 9.4 | 25 | C | 8.6 | -33 | 344 | 6.7 | -1.3 | -4.8 | 1 | C |
| 10 | 361 | 10.0 | 25 | C | 8.9 | -19 | 351 | 8.3 | -1.0 | -3.1 | 1 | C |
| 11 | 357 | 10.7 | 24 | C | 9.3 | -17 | 354 | 8.7 | -0.6 | -2.7 | 1 | C |
| 12 | 354 | 11.3 | 27 | C | 8.9 | -32 | 5 | 7.4 | 1.1 | -4.6 | 1 | J |
| 13 | 347 | 10.3 | 21 | C | 9.3 | -20 | 17 | 8.3 | 2.9 | -2.9 | 1 | C |
| 14 | 354 | 9.3 | 41 | J | 7.5 | -14 | 30 | 6.3 | 3.9 | -1.2 | 1 | J |
| 15 | 356 | 9.2 | 33 | C | 7.5 | 5 | 32 | 5.9 | 3.5 | 1.3 | 3 | C |
| 16 | 348 | 10.1 | 32 | C | 7.4 | 20 | 19 | 6.5 | 1.6 | 3.0 | 1 | C |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 343 | 10.6 | 33 | C | 7.6 | 1 | 4 | 7.0 | 0.4 | 0.3 | 2 | C |
| 19 | 346 | 10.9 | 33 | C | 7.5 | -9 | 336 | 6.5 | -2.2 | -2.1 | 2 | C |
| 20 | 361 | 11.5 | 52 | J | 7.3 | -5 | 325 | 5.5 | -3.2 | -2.2 | 3 | J |
| 21 | 359 | 10.8 | 46 | J | 8.0 | -52 | 347 | 4.7 | 1.9 | -6.0 | 1 | J |
| 22 | 361 | 11.1 | 41 | J | 7.9 | -50 | 332 | 4.3 | 0.8 | -6.2 | 2 | J |
| 23 | 359 | 10.7 | 25 | C | 8.0 | 46 | 311 | 3.6 | -6.5 | 2.9 | 1 | J |
| 24 | 361 | 9.7 | 18 | C | 8.8 | 50 | 339 | 4.9 | -4.7 | 4.5 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 344 | 11.2 | 29 | J | 8.0 | 29 | 14 | 6.4 | -0.4 | 4.0 | 3 | J |
| 2 | 365 | 9.3 | 33 | J | 8.6 | 63 | 354 | 3.7 | -3.7 | 6.3 | 3 | J |
| 3 | 365 | 10.6 | 32 | J | 8.5 | 41 | 285 | 1.5 | -7.2 | 2.2 | 4 | J |
| 4 | 384 | 10.2 | 30 | J | 9.0 | 56 | 268 | -0.2 | -7.2 | 4.8 | 2 | J |
| 5 | 387 | 9.1 | 26 | J | 8.8 | 76 | 255 | -0.5 | -4.6 | 7.2 | 2 | J |
| 6 | 365 | 11.7 | 29 | J | 8.7 | 89 | 103 | -0.0 | -2.2 | 8.2 | 2 | J |
| 7 | 363 | 9.3 | 30 | J | 9.0 | 76 | 299 | 1.0 | -3.6 | 7.6 | 3 | J |
| 8 | 373 | 8.4 | 25 | J | 9.8 | 84 | 208 | -0.9 | -2.1 | 9.3 | 2 | J |
| 9 | 362 | 8.9 | 32 | J | 9.3 | 71 | 288 | 0.9 | -4.0 | 8.1 | 2 | J |
| 10 | 353 | 11.9 | 42 | J | 7.9 | 41 | 307 | 3.0 | -4.4 | 3.8 | 4 | J |
| 11 | 347 | 10.7 | 49 | J | 7.5 | 6 | 315 | 4.9 | -4.9 | 0.2 | 3 | J |
| 12 | 363 | 8.7 | 58 | J | 7.9 | -18 | 309 | 4.6 | -5.4 | -3.0 | 2 | J |
| 13 | 376 | 9.7 | 111 | J | 7.0 | 26 | 286 | 1.5 | -5.6 | 2.0 | 3 | J |
| 14 | 368 | 8.2 | 89 | C | 6.9 | 42 | 302 | 2.5 | -4.6 | 3.5 | 2 | C |
| 15 | 363 | 8.4 | 93 | J | 7.0 | 12 | 316 | 4.8 | -4.8 | 0.5 | 2 | J |
| 16 | 370 | 7.5 | 61 | J | 6.8 | 33 | 323 | 4.4 | -4.1 | 2.7 | 1 | J |
| 17 | 388 | 9.0 | 87 | J | 7.7 | 12 | 281 | 1.4 | -7.1 | -0.6 | 2 | J |
| 18 | 376 | 8.3 | 84 | J | 7.5 | 17 | 297 | 2.9 | -5.9 | -0.1 | 3 | J |
| 19 | 350 | 8.1 | 58 | C | 7.6 | 36 | 348 | 5.3 | -2.6 | 3.2 | 3 | C |
| 20 | 351 | 7.8 | 65 | C | 7.8 | 14 | 344 | 6.7 | -2.5 | 0.7 | 2 | C |
| 21 | 360 | 8.0 | 75 | J | 7.7 | -32 | 337 | 5.3 | -0.3 | -4.2 | 4 | J |
| 22 | 367 | 7.7 | 73 | C | 7.8 | 17 | 295 | 2.9 | -6.5 | -1.3 | 2 | C |
| 23 | 371 | 7.6 | 64 | C | 7.8 | 37 | 308 | 3.5 | -6.0 | 1.5 | 2 | C |
| 24 | 362 | 7.5 | 61 | C | 7.8 | 35 | 318 | 3.9 | -4.9 | 1.4 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 356 | 7.8 | 57 | C | 7.7 | -9 | 306 | 4.1 | -4.4 | -3.6 | 3 | C |
| 2 | 347 | 8.1 | 81 | J | 7.5 | -30 | 331 | 5.5 | -1.0 | -4.7 | 2 | J |
| 3 | 366 | 7.4 | 65 | J | 7.5 | 12 | 311 | 4.0 | -4.7 | -0.8 | 4 | J |
| 4 | 380 | 7.6 | 49 | J | 7.9 | 5 | 285 | 1.8 | -6.3 | -2.0 | 4 | J |
| 5 | 368 | 8.2 | 58 | J | 7.6 | -17 | 291 | 2.4 | -5.2 | -4.0 | 3 | J |
| 6 | 353 | 8.1 | 70 | J | 7.2 | -13 | 328 | 5.0 | -2.6 | -2.2 | 4 | J |
| 7 | 356 | 7.5 | 44 | C | 7.7 | 8 | 293 | 2.8 | -6.7 | -0.6 | 2 | C |
| 8 | 386 | 8.2 | 40 | J | 7.7 | 22 | 270 | -0.0 | -7.2 | 1.5 | 2 | J |
| 9 | 379 | 8.5 | 40 | J | 7.7 | 21 | 273 | 0.3 | -6.9 | 1.6 | 3 | J |
| 10 | 358 | 8.7 | 54 | J | 7.5 | -7 | 306 | 3.6 | -4.9 | -1.4 | 4 | J |
| 11 | 349 | 7.9 | 43 | J | 7.0 | -23 | 308 | 3.2 | -3.9 | -2.7 | 4 | J |
| 12 | 336 | 7.3 | 23 | J | 7.3 | -12 | 319 | 5.2 | -4.4 | -2.0 | 1 | J |
| 13 | 333 | 6.5 | 23 | J | 6.5 | 0 | 331 | 5.5 | -3.0 | -0.4 | 1 | J |
| 14 | 339 | 6.1 | 20 | J | 6.3 | 4 | 319 | 4.7 | -4.1 | -0.2 | 1 | J |
| 15 | 348 | 8.2 | 31 | C | 7.5 | -12 | 302 | 3.5 | -5.2 | -2.6 | 3 | C |
| 16 | 358 | 8.1 | 40 | C | 6.9 | -31 | 293 | 1.9 | -3.6 | -3.9 | 3 | C |
| 17 | 354 | 8.6 | 42 | C | 6.9 | 15 | 297 | 2.6 | -5.4 | -0.1 | 3 | C |
| 18 | 365 | 9.1 | 45 | J | 6.6 | -31 | 296 | 2.0 | -2.9 | -4.0 | 4 | J |
| 19 | 349 | 9.1 | 50 | C | 6.5 | -31 | 3 | 4.1 | 1.2 | -2.1 | 4 | C |
| 20 | 341 | 9.0 | 48 | C | 6.8 | 18 | 13 | 5.5 | 0.3 | 2.2 | 3 | C |
| 21 | 354 | 8.3 | 44 | C | 6.7 | 44 | 12 | 3.1 | -0.8 | 3.0 | 4 | C |
| 22 | 339 | 8.9 | 37 | C | 7.3 | 16 | 356 | 5.7 | -1.2 | 1.2 | 4 | C |
| 23 | 340 | 9.4 | 35 | C | 8.1 | 8 | 326 | 6.3 | -4.3 | -1.3 | 2 | C |
| 24 | 346 | 9.1 | 35 | C | 7.7 | -25 | 314 | 4.7 | -2.7 | -5.2 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 345 | 8.9 | 43 | C | 6.3 | -16 | 324 | 3.8 | -1.8 | -2.6 | 3 | C |
| 2 | 356 | 8.6 | 46 | C | 5.9 | -35 | 311 | 2.1 | -1.1 | -3.1 | 4 | C |
| 3 | 361 | 8.6 | 44 | C | 6.3 | -48 | 328 | 2.8 | -0.0 | -4.0 | 4 | C |
| 4 | | | | | | | | | | | | |
| 5 | 358 | 7.6 | 48 | J | 6.6 | -4 | 277 | 0.8 | -5.8 | -2.6 | 2 | J |
| 6 | 356 | 7.7 | 48 | J | 6.7 | 2 | 309 | 3.6 | -4.4 | -1.1 | 3 | J |
| 7 | 332 | 7.3 | 28 | J | 6.7 | 28 | 343 | 5.3 | -2.3 | 2.5 | 2 | J |
| 8 | 349 | 7.5 | 44 | J | 6.5 | 38 | 330 | 4.0 | -2.9 | 3.1 | 3 | J |
| 9 | 346 | 7.4 | 39 | J | 6.8 | -22 | 300 | 2.8 | -4.5 | -3.0 | 3 | J |
| 10 | 342 | 6.9 | 33 | J | 6.2 | -2 | 320 | 3.6 | -3.0 | -0.5 | 4 | J |
| 11 | 345 | 7.8 | 42 | C | 6.6 | -4 | 298 | 2.4 | -4.5 | -0.9 | 3 | C |
| 12 | 348 | 6.8 | 37 | J | 6.5 | 4 | 303 | 3.0 | -4.7 | -0.2 | 3 | J |
| 13 | 363 | 6.9 | 41 | J | 6.5 | 26 | 292 | 1.8 | -4.8 | 1.7 | 3 | J |
| 14 | 353 | 6.5 | 37 | J | 6.6 | -5 | 309 | 3.0 | -3.6 | -1.0 | 4 | J |
| 15 | 360 | 6.8 | 42 | J | 7.0 | -36 | 295 | 2.3 | -4.0 | -4.9 | 2 | J |
| 16 | 366 | 7.0 | 34 | J | 7.0 | -26 | 282 | 1.2 | -4.9 | -4.3 | 2 | J |
| 17 | 356 | 7.2 | 43 | J | 6.9 | 13 | 296 | 2.6 | -5.5 | -0.3 | 3 | J |
| 18 | 344 | 7.1 | 33 | J | 6.9 | 33 | 321 | 4.3 | -4.5 | 2.2 | 2 | J |
| 19 | 341 | 7.7 | 36 | C | 7.0 | 38 | 306 | 3.0 | -5.4 | 2.0 | 2 | C |
| 20 | 340 | 7.7 | 35 | C | 7.0 | 25 | 307 | 3.3 | -5.0 | 0.4 | 3 | C |
| 21 | 344 | 7.7 | 33 | C | 7.0 | -9 | 310 | 4.2 | -3.9 | -3.2 | 2 | C |
| 22 | 344 | 8.1 | 30 | C | 7.2 | 0 | 302 | 3.7 | -5.2 | -2.9 | 1 | C |
| 23 | 345 | 7.8 | 27 | C | 7.1 | 8 | 305 | 3.7 | -5.1 | -1.9 | 2 | C |
| 24 | 350 | 7.9 | 31 | C | 7.2 | 1 | 300 | 3.3 | -5.0 | -2.8 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 354 | 7.8 | 30 | C | 7.1 | 4 | 293 | 2.5 | -5.4 | -2.6 | 2 | C |
| 2 | 345 | 7.7 | 30 | C | 6.8 | 18 | 313 | 4.1 | -4.7 | -0.4 | 2 | C |
| 3 | 342 | 7.9 | 29 | C | 6.7 | 20 | 321 | 4.1 | -3.8 | 0.3 | 3 | C |
| 4 | 358 | 7.3 | 32 | C | 6.5 | 27 | 286 | 1.2 | -4.7 | 0.4 | 4 | C |
| 5 | 337 | 7.6 | 33 | C | 6.2 | 15 | 15 | 5.1 | 0.8 | 1.8 | 2 | C |
| 6 | 339 | 6.6 | 24 | J | 6.3 | 12 | 325 | 4.6 | -3.5 | 0.2 | 3 | J |
| 7 | 335 | 6.1 | 21 | J | 5.7 | -23 | 359 | 5.1 | 0.4 | -2.1 | 1 | J |
| 8 | 333 | 7.1 | 25 | J | 6.7 | -18 | 334 | 5.3 | -2.2 | -2.4 | 2 | J |
| 9 | 355 | 6.7 | 26 | J | 6.3 | 0 | 289 | 2.0 | -5.7 | -0.9 | 2 | J |
| 10 | 353 | 6.4 | 27 | J | 6.2 | 15 | 294 | 2.4 | -5.5 | 0.8 | 1 | J |
| 11 | 346 | 6.7 | 29 | J | 5.8 | 11 | 305 | 3.0 | -4.4 | 0.5 | 2 | J |
| 12 | 340 | 6.7 | 25 | J | 5.6 | 28 | 327 | 3.5 | -2.5 | 1.9 | 3 | J |
| 13 | 336 | 6.7 | 23 | J | 5.6 | 9 | 344 | 4.3 | -1.3 | 0.5 | 3 | J |
| 14 | 346 | 7.0 | 25 | J | 5.7 | -11 | 302 | 2.5 | -3.9 | -1.6 | 3 | J |
| 15 | 341 | 6.8 | 22 | J | 5.6 | 9 | 304 | 3.0 | -4.5 | -0.1 | 1 | J |
| 16 | 331 | 8.1 | 29 | C | 5.7 | 13 | 316 | 3.5 | -3.5 | 0.2 | 2 | C |
| 17 | 340 | 6.8 | 27 | J | 5.8 | -21 | 318 | 3.4 | -2.4 | -2.6 | 3 | J |
| 18 | 331 | 6.8 | 21 | J | 6.1 | -6 | 323 | 4.8 | -3.2 | -1.9 | 1 | J |
| 19 | 345 | 7.9 | 25 | C | 6.0 | 50 | 288 | 1.0 | -4.3 | 2.3 | 3 | C |
| 20 | 349 | 7.9 | 26 | C | 5.9 | 54 | 278 | 0.5 | -4.8 | 2.6 | 2 | C |
| 21 | 337 | 8.0 | 28 | C | 5.5 | 46 | 319 | 2.2 | -3.1 | 1.8 | 3 | C |
| 22 | 355 | 6.1 | 28 | J | 5.7 | 38 | 280 | 0.8 | -5.5 | 0.8 | 1 | J |
| 23 | 341 | 6.4 | 26 | J | 6.0 | 13 | 300 | 2.9 | -5.0 | -1.4 | 1 | J |
| 24 | 337 | 5.8 | 21 | J | 6.0 | -8 | 309 | 3.5 | -3.3 | -2.9 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 363 | 5.9 | 23 | J | 5.7 | 17 | 269 | -0.1 | -5.4 | -1.2 | 2 | J |
| 2 | 341 | 7.3 | 37 | C | 6.0 | -3 | 291 | 2.0 | -4.6 | -2.9 | 1 | C |
| 3 | 405 | 12.4 | 68 | C | 12.6 | -19 | 304 | 5.9 | -6.3 | -7.1 | 6 | C |
| 4 | 407 | 12.8 | 91 | C | 16.7 | 12 | 304 | 8.8 | -13.2 | -2.1 | 5 | C |
| 5 | 409 | 20.9 | 68 | C | 12.9 | 30 | 308 | 6.8 | -10.3 | 2.9 | 3 | C |
| 6 | 418 | 24.7 | 67 | C | 9.9 | 66 | 65 | 1.3 | 0.7 | 7.3 | 6 | C |
| 7 | 412 | 16.3 | 57 | C | 14.1 | 47 | 125 | -5.4 | 5.1 | 11.6 | 2 | C |
| 8 | 390 | 16.0 | 70 | C | 13.6 | 26 | 130 | -7.6 | 7.8 | 7.4 | 3 | C |
| 9 | 373 | 18.4 | 61 | J | 10.5 | -19 | 142 | -7.6 | 6.4 | -2.3 | 2 | J |
| 10 | 363 | 15.0 | 55 | J | 10.6 | -4 | 136 | -7.3 | 7.1 | 0.3 | 3 | J |
| 11 | 344 | 11.9 | 48 | J | 10.1 | 26 | 148 | -7.6 | 4.2 | 4.9 | 2 | J |
| 12 | 351 | 10.4 | 51 | J | 10.3 | 16 | 132 | -6.3 | 6.6 | 3.6 | 3 | J |
| 13 | 350 | 9.3 | 54 | J | 9.7 | 8 | 138 | -6.8 | 5.8 | 2.2 | 3 | J |
| 14 | 357 | 8.9 | 68 | J | 9.6 | 34 | 139 | -5.3 | 3.7 | 5.5 | 5 | J |
| 15 | 358 | 6.4 | 77 | J | 9.2 | 31 | 147 | -6.3 | 3.0 | 5.2 | 3 | J |
| 16 | 345 | 5.8 | 66 | J | 8.8 | 10 | 148 | -7.3 | 4.0 | 2.6 | 1 | J |
| 17 | 330 | 4.1 | 43 | J | 8.9 | 5 | 151 | -7.4 | 3.7 | 2.0 | 2 | J |
| 18 | 358 | 3.0 | 66 | J | 9.1 | -10 | 150 | -7.5 | 4.6 | 0.1 | 2 | J |
| 19 | 370 | 2.6 | 63 | J | 9.1 | -20 | 152 | -7.1 | 4.6 | -1.2 | 3 | J |
| 20 | 407 | 2.8 | 129 | L | 9.1 | -64 | 155 | -3.6 | 5.1 | -6.6 | 0 | J |
| 21 | 411 | 2.4 | 59 | J | 9.0 | -67 | 162 | -3.3 | 4.9 | -6.8 | 1 | J |
| 22 | 432 | 3.0 | 73 | J | 9.4 | -75 | 167 | -2.3 | 4.9 | -7.4 | 2 | J |
| 23 | 447 | 2.9 | 97 | J | 9.7 | -55 | 145 | -4.5 | 6.7 | -5.1 | 2 | J |
| 24 | 437 | 3.6 | 66 | J | 11.5 | -48 | 145 | -6.1 | 8.0 | -4.9 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 423 | 4.6 | 90 | L | 11.1 | -52 | 137 | -4.9 | 8.2 | -5.1 | 2 | C |
| 2 | 447 | 5.0 | 32 | J | 10.7 | -33 | 135 | -5.6 | 7.3 | -1.8 | 5 | J |
| 3 | 439 | 4.0 | 56 | L | 11.7 | -53 | 120 | -3.3 | 9.1 | -5.4 | 3 | C |
| 4 | 415 | 3.9 | 47 | C | 12.1 | -41 | 123 | -4.9 | 10.0 | -4.1 | 2 | C |
| 5 | 467 | 4.9 | 83 | C | 11.9 | -41 | 114 | -3.3 | 9.2 | -3.9 | 5 | C |
| 6 | 432 | 4.5 | 84 | C | 11.6 | -58 | 134 | -4.2 | 6.9 | -8.0 | 2 | C |
| 7 | 449 | 6.8 | 88 | C | 10.5 | -43 | 87 | 0.4 | 8.3 | -4.5 | 4 | C |
| 8 | 438 | 7.9 | 87 | C | 9.7 | -17 | 88 | 0.3 | 8.9 | -0.8 | 2 | C |
| 9 | 446 | 11.6 | 157 | J | 7.2 | -60 | 82 | 0.4 | 4.0 | -4.9 | 3 | J |
| 10 | 443 | 10.7 | 120 | J | 7.2 | 28 | 87 | 0.2 | 4.2 | 3.1 | 5 | J |
| 11 | 450 | 10.9 | 109 | J | 7.8 | -51 | 78 | 0.9 | 5.1 | -5.0 | 3 | J |
| 12 | 450 | 9.8 | 98 | J | 7.4 | -46 | 82 | 0.6 | 4.8 | -3.8 | 4 | J |
| 13 | 442 | 10.2 | 70 | J | 8.4 | 1 | 114 | -2.0 | 4.3 | 0.7 | 7 | J |
| 14 | 439 | 9.6 | 30 | J | 9.5 | 51 | 119 | -2.9 | 3.8 | 8.1 | 1 | J |
| 15 | 428 | 5.0 | 45 | C | 10.2 | 48 | 119 | -3.4 | 4.2 | 8.6 | 1 | C |
| 16 | 428 | 8.0 | 24 | J | 9.8 | 45 | 115 | -2.9 | 4.2 | 8.3 | 1 | J |
| 17 | 420 | 18.3 | 30 | J | 9.4 | 50 | 114 | -2.4 | 3.0 | 8.5 | 1 | J |
| 18 | 413 | 23.1 | 22 | J | 8.8 | 25 | 106 | -2.2 | 5.7 | 6.2 | 1 | J |
| 19 | 411 | 23.8 | 20 | J | 8.6 | 13 | 106 | -2.3 | 6.5 | 5.0 | 0 | J |
| 20 | 414 | 21.2 | 22 | J | 6.9 | 27 | 108 | -1.9 | 3.8 | 5.3 | 1 | C |
| 21 | 411 | 19.9 | 21 | J | | | | | | | | |
| 22 | 413 | 15.9 | 25 | J | 6.9 | 15 | 124 | -3.7 | 3.8 | 4.3 | 1 | J |
| 23 | 416 | 17.2 | 25 | J | 6.2 | 11 | 144 | -4.9 | 2.5 | 2.9 | 1 | J |
| 24 | 413 | 18.1 | 23 | J | 5.8 | 19 | 143 | -4.3 | 1.8 | 3.3 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 411 | 18.1 | 20 | J | 5.8 | 19 | 140 | -4.1 | 2.0 | 3.3 | 1 | J |
| 2 | 408 | 16.3 | 19 | J | 5.8 | 11 | 134 | -3.9 | 3.0 | 2.9 | 0 | J |
| 3 | 406 | 16.8 | 16 | J | 4.4 | 5 | 120 | -2.1 | 3.1 | 2.0 | 1 | J |
| 4 | 405 | 15.5 | 16 | J | 4.4 | 8 | 119 | -2.0 | 3.1 | 2.0 | 1 | J |
| 5 | 404 | 13.1 | 16 | J | 4.2 | 12 | 134 | -2.8 | 2.4 | 1.8 | 1 | J |
| 6 | 396 | 10.6 | 13 | L | 4.9 | 15 | 147 | -3.9 | 2.1 | 2.0 | 0 | C |
| 7 | 392 | 11.1 | 11 | C | 4.6 | 9 | 144 | -3.7 | 2.4 | 1.4 | 0 | C |
| 8 | 392 | 8.0 | 14 | C | 5.5 | 10 | 153 | -4.8 | 2.2 | 1.4 | 1 | C |
| 9 | 391 | 7.7 | 11 | C | 5.7 | 7 | 152 | -5.0 | 2.5 | 1.2 | 0 | C |
| 10 | 386 | 8.1 | 11 | C | 5.6 | 6 | 147 | -4.6 | 2.9 | 1.0 | 0 | C |
| 11 | 380 | 11.5 | 13 | C | 4.7 | 8 | 147 | -3.9 | 2.4 | 1.0 | 0 | C |
| 12 | 378 | 10.0 | 11 | C | 5.1 | -1 | 145 | -4.1 | 2.9 | 0.3 | 1 | C |
| 13 | 377 | 7.1 | 13 | C | 5.9 | 5 | 144 | -4.8 | 3.3 | 1.0 | 1 | C |
| 14 | 374 | 6.1 | 13 | C | 6.2 | 4 | 150 | -5.3 | 2.9 | 1.0 | 0 | C |
| 15 | 370 | 6.3 | 13 | C | 6.2 | 3 | 149 | -5.2 | 2.9 | 1.0 | 1 | C |
| 16 | 368 | 6.3 | 15 | C | 6.2 | -4 | 161 | -5.8 | 2.1 | 0.1 | 1 | C |
| 17 | 368 | 6.5 | 13 | C | 6.3 | 4 | 137 | -4.5 | 3.9 | 1.7 | 1 | C |
| 18 | 358 | 8.0 | 13 | C | 6.0 | 3 | 136 | -4.3 | 3.7 | 1.8 | 0 | C |
| 19 | 354 | 9.6 | 12 | C | 5.7 | 6 | 124 | -3.1 | 4.1 | 2.5 | 1 | C |
| 20 | 349 | 10.5 | 12 | C | 5.6 | 3 | 132 | -3.7 | 3.5 | 2.1 | 1 | C |
| 21 | 345 | 10.3 | 12 | C | 5.6 | 3 | 136 | -4.0 | 3.2 | 2.1 | 0 | C |
| 22 | 342 | 10.8 | 14 | C | 5.9 | 1 | 143 | -4.7 | 3.0 | 1.9 | 0 | C |
| 23 | 339 | 11.0 | 11 | C | 6.0 | 7 | 139 | -4.4 | 3.0 | 2.6 | 1 | C |
| 24 | 333 | 11.4 | 13 | C | 6.1 | 13 | 120 | -2.9 | 3.6 | 3.8 | 1 | C |

FEB. 14, 1979 45

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 325 | 11.0 | 14 | C | 6.2 | 8 | 133 | -4.2 | 3.4 | 3.0 | 0 | C |
| 2 | 324 | 11.9 | 11 | C | 6.0 | 14 | 118 | -2.6 | 3.6 | 3.7 | 1 | C |
| 3 | 324 | 10.4 | 13 | C | 6.1 | 19 | 99 | -0.9 | 4.1 | 4.3 | 1 | C |
| 4 | 325 | 9.8 | 15 | C | 6.2 | 19 | 79 | 1.1 | 4.4 | 4.2 | 1 | C |
| 5 | 326 | 10.2 | 13 | C | 6.3 | 24 | 73 | 1.7 | 4.3 | 4.4 | 0 | C |
| 6 | 323 | 10.4 | 14 | C | 6.5 | 20 | 72 | 1.9 | 4.8 | 3.8 | 1 | C |
| 7 | 324 | 10.2 | 14 | C | 6.6 | 15 | 69 | 2.3 | 5.3 | 3.1 | 1 | C |
| 8 | 323 | 9.8 | 14 | C | 6.6 | 8 | 72 | 2.0 | 5.8 | 2.1 | 1 | C |
| 9 | 319 | 10.6 | 13 | C | 6.5 | 2 | 72 | 2.0 | 6.0 | 1.3 | 0 | C |
| 10 | 317 | 10.2 | 13 | C | 6.6 | -2 | 73 | 1.9 | 6.1 | 0.7 | 1 | C |
| 11 | 311 | 10.3 | 12 | C | 6.7 | -2 | 83 | 0.8 | 6.6 | 0.7 | 0 | C |
| 12 | 308 | 11.2 | 14 | C | 6.4 | 3 | 104 | -1.5 | 5.9 | 1.1 | 1 | C |
| 13 | 310 | 11.7 | 12 | C | 6.6 | 4 | 113 | -2.5 | 5.8 | 1.4 | 1 | C |
| 14 | 310 | 11.1 | 13 | C | 6.7 | 4 | 116 | -2.9 | 5.7 | 1.6 | 1 | C |
| 15 | 309 | 11.3 | 15 | C | 6.5 | 10 | 106 | -1.8 | 5.7 | 2.5 | 1 | C |
| 16 | 312 | 10.8 | 14 | C | 6.9 | 2 | 105 | -1.8 | 6.2 | 2.0 | 1 | C |
| 17 | 319 | 10.4 | 15 | C | 7.4 | 9 | 92 | -0.3 | 6.6 | 3.4 | 1 | C |
| 18 | 316 | 10.2 | 14 | C | 7.7 | -6 | 92 | -0.3 | 7.4 | 2.0 | 1 | C |
| 19 | 316 | 10.4 | 14 | C | 7.8 | -9 | 93 | -0.4 | 7.5 | 2.0 | 1 | C |
| 20 | 318 | 11.9 | 13 | C | 8.1 | -14 | 86 | 0.5 | 7.7 | 1.8 | 1 | C |
| 21 | 318 | 11.7 | 12 | C | 7.8 | -37 | 81 | 1.0 | 7.6 | -1.1 | 1 | C |
| 22 | 315 | 11.5 | 14 | C | 7.8 | -25 | 99 | -1.1 | 7.6 | 0.7 | 1 | C |
| 23 | 310 | 12.5 | 20 | C | 7.9 | -10 | 117 | -3.3 | 6.2 | 2.2 | 3 | C |
| 24 | 310 | 12.7 | 18 | C | 8.3 | -1 | 130 | -5.3 | 5.4 | 3.2 | 1 | C |

FEB. 15, 1979 46

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 315 | 13.6 | 19 | C | 8.9 | -19 | 123 | -4.1 | 6.8 | 1.1 | 4 | C |
| 2 | 314 | 12.8 | 20 | C | 9.1 | -24 | 144 | -6.2 | 5.6 | -0.7 | 3 | C |
| 3 | 319 | 14.1 | 19 | C | 9.8 | -7 | 126 | -5.5 | 7.3 | 2.3 | 2 | C |
| 4 | 312 | 15.2 | 19 | C | 9.9 | 3 | 132 | -6.4 | 6.2 | 3.3 | 2 | C |
| 5 | 327 | 14.3 | 16 | C | 10.4 | -27 | 109 | -2.9 | 9.3 | -1.1 | 3 | C |
| 6 | 326 | 13.9 | 13 | C | 10.5 | -16 | 120 | -5.0 | 9.2 | -0.1 | 0 | C |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 336 | 15.2 | 15 | C | 10.7 | -70 | 114 | -1.5 | 4.8 | -9.4 | 1 | C |
| 11 | 375 | 6.3 | 60 | C | 11.0 | -19 | 129 | -6.2 | 8.1 | -2.3 | 3 | C |
| 12 | 373 | 7.2 | 68 | C | 10.5 | -2 | 127 | -6.2 | 8.2 | 0.8 | 2 | C |
| 13 | 381 | 7.5 | 78 | C | 10.7 | -9 | 123 | -5.6 | 8.8 | -0.1 | 2 | C |
| 14 | 396 | 7.6 | 109 | C | 10.2 | 36 | 122 | -3.1 | 4.0 | 5.2 | 6 | C |
| 15 | 375 | 7.8 | 110 | C | 10.0 | -20 | 117 | -3.8 | 8.2 | -1.3 | 3 | C |
| 16 | 380 | 8.3 | 111 | C | 10.1 | -28 | 117 | -3.6 | 7.9 | -2.1 | 4 | C |
| 17 | 362 | 8.6 | 95 | C | 10.2 | -18 | 119 | -4.6 | 8.7 | -0.3 | 2 | C |
| 18 | 354 | 9.9 | 76 | C | 10.2 | -2 | 132 | -6.1 | 6.4 | 2.2 | 4 | C |
| 19 | 332 | 10.6 | 67 | C | 10.4 | -2 | 147 | -8.3 | 5.0 | 2.0 | 3 | C |
| 20 | 349 | 10.2 | 74 | C | 10.1 | -8 | 116 | -4.0 | 7.8 | 2.6 | 4 | C |
| 21 | 352 | 10.5 | 91 | C | 8.3 | -2 | 124 | -3.0 | 3.9 | 2.0 | 5 | C |
| 22 | 346 | 10.5 | 107 | C | 7.2 | 44 | 155 | -3.7 | -0.6 | 4.3 | 4 | C |
| 23 | 359 | 9.6 | 124 | C | 6.2 | -5 | 96 | -0.4 | 3.3 | 1.6 | 4 | C |
| 24 | 360 | 9.3 | 118 | C | 6.8 | 21 | 83 | 0.6 | 3.1 | 4.1 | 4 | C |

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## FEB. 16, 1979

47

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 336 | 10.2 | 103 | C | 6.9 | -1 | 127 | -3.7 | 4.2 | 2.4 | 3 | C |
| 2 | 336 | 10.3 | 102 | C | 6.8 | -11 | 127 | -3.7 | 4.8 | 1.3 | 2 | C |
| 3 | 341 | 9.9 | 91 | C | 6.7 | -27 | 164 | -5.6 | 2.8 | -1.9 | 1 | C |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 332 | 9.9 | 79 | C | 8.2 | 20 | 129 | -4.8 | 5.1 | 4.2 | 1 | C |
| 8 | 330 | 8.7 | 79 | C | 6.7 | 2 | 129 | -3.8 | 4.4 | 1.1 | 3 | C |
| 9 | 324 | 8.9 | 82 | C | 5.8 | 10 | 139 | -3.9 | 3.1 | 1.5 | 3 | C |
| 10 | 344 | 8.2 | 82 | C | 5.8 | 1 | 108 | -1.7 | 4.9 | 0.9 | 2 | C |
| 11 | 326 | 8.5 | 70 | C | 6.3 | -36 | 134 | -3.5 | 4.0 | -3.1 | 1 | C |
| 12 | 336 | 7.7 | 61 | C | 6.2 | -37 | 118 | -2.0 | 4.2 | -2.6 | 3 | C |
| 13 | 331 | 7.2 | 50 | C | 7.4 | -23 | 115 | -2.9 | 6.4 | -1.8 | 1 | C |
| 14 | 337 | 8.2 | 51 | C | 6.9 | 15 | 117 | -2.7 | 4.7 | 2.5 | 3 | C |
| 15 | 341 | 8.1 | 46 | C | 6.8 | 55 | 96 | -0.4 | 2.3 | 5.8 | 2 | C |
| 16 | 330 | 9.0 | 54 | C | 7.0 | 19 | 115 | -2.5 | 4.6 | 3.4 | 3 | C |
| 17 | 330 | 9.7 | 53 | C | 7.5 | 7 | 131 | -4.7 | 4.8 | 2.6 | 2 | C |
| 18 | 335 | 9.7 | 51 | C | 7.4 | 22 | 117 | -3.1 | 4.6 | 4.8 | 0 | C |
| 19 | 333 | 9.0 | 33 | C | 8.2 | 26 | 112 | -2.8 | 4.7 | 6.0 | 1 | C |
| 20 | 338 | 9.1 | 35 | C | 8.8 | 31 | 112 | -2.7 | 4.1 | 7.1 | 1 | C |
| 21 | 345 | 7.0 | 37 | C | 9.6 | 23 | 116 | -3.8 | 4.9 | 6.9 | 2 | C |
| 22 | 359 | 4.4 | 69 | C | 9.7 | 22 | 115 | -3.7 | 5.0 | 7.1 | 2 | C |
| 23 | 346 | 4.2 | 90 | C | 9.5 | 11 | 118 | -4.3 | 6.0 | 5.9 | 1 | C |
| 24 | 339 | 4.2 | 77 | C | 9.6 | 14 | 131 | -6.0 | 4.7 | 5.6 | 1 | C |

## FEB. 17, 1979

48

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 349 | 4.5 | 89 | C | 10.0 | 14 | 121 | -4.9 | 5.9 | 6.3 | 1 | C |
| 2 | 360 | 4.6 | 95 | C | 10.2 | 15 | 114 | -3.9 | 6.3 | 6.7 | 1 | C |
| 3 | 372 | 4.2 | 97 | C | 10.6 | 9 | 106 | -2.9 | 8.0 | 6.0 | 1 | C |
| 4 | 369 | 4.5 | 88 | C | 10.6 | 19 | 114 | -4.0 | 6.7 | 6.8 | 2 | C |
| 5 | 359 | 4.6 | 68 | C | 10.6 | 19 | 120 | -5.0 | 6.8 | 6.3 | 1 | C |
| 6 | 351 | 4.7 | 54 | C | 10.9 | 19 | 120 | -4.9 | 7.0 | 6.0 | 3 | C |
| 7 | 358 | 5.1 | 56 | C | 11.0 | 18 | 119 | -4.7 | 7.2 | 5.2 | 3 | C |
| 8 | 353 | 5.6 | 49 | C | 11.2 | 10 | 127 | -6.4 | 7.9 | 3.8 | 2 | C |
| 9 | 355 | 5.3 | 60 | C | 11.3 | 11 | 118 | -5.0 | 8.9 | 3.7 | 2 | C |
| 10 | 354 | 6.5 | 63 | C | 11.2 | 2 | 90 | -0.0 | 10.9 | 2.2 | 1 | C |
| 11 | 343 | 7.1 | 61 | C | 11.2 | 1 | 100 | -2.0 | 10.5 | 1.8 | 2 | C |
| 12 | 336 | 6.7 | 73 | C | 11.0 | -1 | 109 | -3.4 | 9.8 | 1.4 | 3 | C |
| 13 | 329 | 5.6 | 60 | C | 11.2 | -16 | 108 | -3.3 | 10.5 | -1.3 | 1 | C |
| 14 | 340 | 5.5 | 67 | C | 11.1 | -15 | 107 | -3.0 | 10.3 | -0.7 | 2 | C |
| 15 | 336 | 5.6 | 64 | C | 11.2 | -20 | 113 | -4.1 | 10.2 | -1.4 | 1 | C |
| 16 | 346 | 7.4 | 62 | C | 10.3 | -10 | 117 | -4.4 | 8.7 | 0.8 | 3 | C |
| 17 | 348 | 11.0 | 44 | C | 9.6 | -6 | 118 | -4.1 | 7.6 | 1.6 | 4 | C |
| 18 | 347 | 14.9 | 30 | C | 8.5 | 26 | 115 | -3.1 | 4.7 | 5.8 | 2 | C |
| 19 | 344 | 13.6 | 28 | C | 9.3 | -22 | 103 | -1.8 | 8.3 | 0.4 | 3 | C |
| 20 | 356 | 12.5 | 22 | C | 9.8 | -33 | 72 | 2.5 | 9.3 | -1.1 | 1 | C |
| 21 | 350 | 12.6 | 19 | C | 9.9 | -27 | 98 | -1.3 | 9.8 | 0.4 | 1 | C |
| 22 | 349 | 11.9 | 23 | C | 10.1 | -19 | 108 | -2.9 | 9.4 | 1.8 | 1 | C |
| 23 | 350 | 11.6 | 38 | C | 9.8 | 12 | 125 | -5.2 | 5.2 | 5.6 | 3 | C |
| 24 | 356 | 11.6 | 44 | C | 9.8 | -28 | 111 | -2.8 | 8.1 | 0.4 | 4 | C |

## FEB. 18, 1979

49

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 364 | 12.6 | 71 | C | 7.9 | -7 | 122 | -3.6 | 5.4 | 2.3 | 3 | C |
| 2 | 360 | 11.8 | 59 | C | 9.6 | -6 | 116 | -4.0 | 7.4 | 3.2 | 3 | C |
| 3 | 371 | 11.6 | 61 | C | 9.9 | -20 | 123 | -3.7 | 6.3 | 0.5 | 6 | C |
| 4 | 434 | 19.7 | 97 | C | 17.1 | 34 | 134 | -8.4 | 4.5 | 11.3 | 10 | C |
| 5 | 480 | 16.1 | 172 | C | 23.7 | 25 | 146 | -17.0 | 7.2 | 13.1 | 6 | C |
| 6 | 470 | 16.4 | 158 | C | 19.4 | 16 | 142 | -13.6 | 8.6 | 8.2 | 7 | C |
| 7 | 462 | 17.6 | 139 | C | 16.3 | 11 | 128 | -8.8 | 10.1 | 5.5 | 6 | C |
| 8 | 473 | 14.1 | 191 | C | 17.3 | -27 | 92 | -0.4 | 13.6 | -3.3 | 10 | C |
| 9 | 494 | 9.9 | 278 | C | 17.2 | 14 | 132 | -9.9 | 10.2 | 5.8 | 7 | C |
| 10 | 497 | 8.1 | 273 | C | 16.5 | 0 | 140 | -11.1 | 9.1 | 1.5 | 7 | C |
| 11 | 516 | 7.2 | 300 | C | 15.9 | -4 | 135 | -10.9 | 10.9 | 0.5 | 3 | C |
| 12 | 534 | 5.7 | 262 | C | 15.1 | 4 | 140 | -11.5 | 9.3 | 2.5 | 2 | C |
| 13 | 573 | 5.0 | 253 | C | 14.4 | -1 | 131 | -9.3 | 10.6 | 1.5 | 2 | C |
| 14 | 599 | 5.0 | 213 | C | 14.1 | -15 | 112 | -5.0 | 12.8 | -1.0 | 3 | C |
| 15 | 589 | 4.9 | 209 | C | 14.3 | -10 | 111 | -4.9 | 12.7 | 0.8 | 3 | C |
| 16 | 564 | 5.1 | 186 | C | 13.9 | -2 | 132 | -9.0 | 9.8 | 2.4 | 3 | C |
| 17 | 542 | 5.5 | 183 | C | 12.5 | -8 | 125 | -7.1 | 10.1 | 1.7 | 1 | C |
| 18 | 524 | 6.1 | 176 | C | 11.4 | -6 | 135 | -7.9 | 7.6 | 1.9 | 2 | C |
| 19 | 527 | 6.2 | 165 | C | 11.7 | -1 | 141 | -9.1 | 6.6 | 2.9 | 1 | C |
| 20 | 539 | 9.7 | 178 | L | 11.0 | -23 | 143 | -8.0 | 7.3 | -1.0 | 1 | C |
| 21 | 537 | 9.5 | 191 | L | 10.3 | -22 | 141 | -7.4 | 7.1 | -0.4 | 0 | C |
| 22 | 543 | 6.9 | 123 | C | 9.7 | -16 | 159 | -8.3 | 4.1 | -0.6 | 2 | C |
| 23 | 541 | 5.9 | 130 | C | 9.3 | -4 | 216 | -7.0 | -3.9 | -3.2 | 3 | C |
| 24 | 540 | 5.8 | 116 | C | 9.0 | -19 | 205 | -6.4 | -1.3 | -3.6 | 4 | C |

## FEB. 19, 1979

50

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 538 | 6.1 | 102 | C | 8.6 | -34 | 157 | -5.2 | 3.9 | -2.1 | 4 | C |
| 2 | 532 | 6.1 | 106 | C | 8.3 | -21 | 141 | -5.2 | 4.9 | -0.2 | 3 | C |
| 3 | 530 | 5.7 | 85 | J | 8.1 | -6 | 150 | -5.8 | 3.4 | 1.0 | 4 | C |
| 4 | 516 | 6.9 | 113 | J | 7.9 | 0 | 145 | -5.3 | 3.4 | 1.6 | 4 | C |
| 5 | 519 | 6.4 | 98 | J | 7.8 | 11 | 185 | -6.8 | -1.0 | 1.0 | 3 | C |
| 6 | 511 | 6.1 | 85 | J | 7.1 | 5 | 195 | -6.2 | -1.7 | -0.0 | 3 | J |
| 7 | 552 | 6.4 | 128 | J | 6.6 | -11 | 239 | -2.0 | -3.0 | -1.6 | 5 | J |
| 8 | 535 | 6.5 | 135 | J | 6.8 | -10 | 208 | -3.7 | -1.7 | -1.1 | 5 | J |
| 9 | 518 | 6.2 | 104 | J | 6.5 | 8 | 207 | -5.4 | -2.9 | 0.3 | 2 | J |
| 10 | 512 | 5.9 | 75 | J | 6.1 | 6 | 172 | -4.5 | 0.5 | 0.6 | 4 | J |
| 11 | 535 | 5.3 | 95 | J | 5.8 | -6 | 171 | -2.7 | 0.5 | -0.2 | 5 | J |
| 12 | 530 | 5.7 | 110 | J | 6.2 | 30 | 227 | -3.4 | -4.0 | 2.2 | 2 | J |
| 13 | 534 | 5.9 | 122 | J | 6.2 | 33 | 219 | -4.0 | -3.8 | 2.7 | 1 | J |
| 14 | 542 | 4.6 | 99 | C | 5.6 | -75 | 186 | -1.1 | 0.8 | -4.1 | 3 | C |
| 15 | 552 | 4.6 | 116 | J | 5.7 | 45 | 223 | -2.8 | -3.5 | 3.1 | 2 | J |
| 16 | 532 | 4.5 | 135 | J | 5.3 | 34 | 213 | -3.3 | -2.8 | 1.9 | 2 | J |
| 17 | 543 | 4.8 | 145 | J | 5.1 | 42 | 203 | -2.8 | -2.0 | 2.2 | 3 | J |
| 18 | 579 | 4.6 | 118 | J | 4.2 | -75 | 26 | 0.9 | 1.8 | -3.2 | 2 | J |
| 19 | 527 | 3.9 | 109 | C | 5.3 | 28 | 200 | -3.8 | -2.1 | 1.3 | 2 | C |
| 20 | 525 | 3.8 | 102 | C | 5.1 | 13 | 204 | -4.2 | -2.2 | 0.1 | 1 | C |
| 21 | 520 | 3.7 | 98 | C | 4.9 | 43 | 214 | -2.6 | -3.0 | 1.6 | 2 | C |
| 22 | 540 | 3.6 | 91 | C | 5.0 | 53 | 123 | -1.6 | 0.0 | 4.5 | 1 | C |
| 23 | 552 | 3.5 | 65 | J | 4.3 | 22 | 170 | -2.9 | -0.2 | 1.3 | 2 | J |
| 24 | | | | | | | | | | | | |

## FEB. 20, 1979

51

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 532 | 3.8 | 97 | J | 4.7 | -24 | 139 | -2.7 | 2.8 | -0.1 | 2 | J |
| 2 | 516 | 3.4 | 62 | J | 4.5 | 1 | 152 | -3.2 | 1.4 | 0.9 | 3 | J |
| 3 | 505 | 3.8 | 46 | J | 4.6 | 35 | 178 | -3.6 | -1.1 | 2.3 | 1 | J |
| 4 | 509 | 3.4 | 52 | J | 4.4 | 6 | 159 | -3.5 | 1.1 | 0.9 | 2 | J |
| 5 | 498 | 3.3 | 69 | J | 4.8 | 21 | 165 | -4.1 | 0.4 | 1.9 | 2 | J |
| 6 | 502 | 2.4 | 62 | J | 3.8 | 6 | 166 | -3.4 | 0.7 | 0.6 | 1 | J |
| 7 | 491 | 2.5 | 58 | J | 4.0 | 8 | 177 | -3.8 | 0.0 | 0.6 | 1 | J |
| 8 | 483 | 2.6 | 73 | J | 4.2 | 16 | 166 | -3.8 | 0.7 | 1.3 | 1 | J |
| 9 | 499 | 2.6 | 47 | J | 4.4 | 27 | 131 | -2.3 | 2.3 | 2.3 | 2 | J |
| 10 | 474 | 2.4 | 52 | J | 4.1 | 10 | 152 | -3.4 | 1.7 | 1.0 | 1 | J |
| 11 | 466 | 2.4 | 41 | J | 4.1 | 11 | 144 | -3.1 | 2.1 | 1.1 | 1 | J |
| 12 | 454 | 2.2 | 33 | J | 4.0 | 6 | 136 | -2.7 | 2.5 | 0.8 | 1 | J |
| 13 | 433 | 1.8 | 32 | J | 4.0 | 16 | 136 | -2.6 | 2.3 | 1.5 | 1 | J |
| 14 | 425 | 2.9 | 35 | J | 3.9 | 14 | 131 | -2.3 | 2.4 | 1.4 | 1 | J |
| 15 | 424 | 3.2 | 30 | J | 3.6 | -6 | 131 | -2.2 | 2.5 | 0.3 | 1 | J |
| 16 | 407 | 4.0 | 17 | C | 3.7 | -30 | 124 | -1.8 | 3.1 | -1.0 | 0 | C |
| 17 | 404 | 5.1 | 18 | J | 3.8 | -60 | 125 | -1.0 | 2.4 | -2.4 | 1 | J |
| 18 | 393 | 4.7 | 19 | J | 3.9 | -55 | 146 | -1.9 | 2.4 | -2.5 | 1 | J |
| 19 | 398 | 5.0 | 20 | J | 4.4 | -52 | 133 | -1.8 | 3.3 | -2.3 | 1 | J |
| 20 | 393 | 8.7 | 11 | C | 5.4 | -53 | 121 | -1.6 | 4.4 | -2.4 | 1 | J |
| 21 | 392 | 6.2 | 20 | C | 5.4 | -38 | 119 | -2.1 | 4.9 | -1.0 | 1 | J |
| 22 | 391 | 4.3 | 17 | C | 6.1 | -54 | 120 | -1.8 | 5.0 | -2.4 | 2 | C |
| 23 | 391 | 4.8 | 13 | C | 6.0 | -58 | 131 | -2.1 | 4.7 | -2.9 | 1 | C |
| 24 | 382 | 5.0 | 19 | C | 5.7 | -41 | 130 | -2.7 | 4.7 | -1.3 | 1 | C |

## FEB. 21, 1979

52

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 383 | 4.9 | 21 | C | 5.9 | -28 | 127 | -3.1 | 4.9 | -0.2 | 1 | C |
| 2 | 379 | 5.1 | 20 | C | 5.9 | -23 | 127 | -3.1 | 4.7 | 0.2 | 1 | C |
| 3 | 372 | 4.9 | 22 | J | 5.7 | -4 | 130 | -3.6 | 4.0 | 1.6 | 1 | C |
| 4 | 497 | 9.3 | 104 | J | 14.0 | -18 | 121 | -6.5 | 11.5 | 0.9 | 6 | J |
| 5 | 527 | 15.5 | 88 | J | 14.6 | -53 | 130 | -5.4 | 10.2 | -7.9 | 4 | J |
| 6 | 516 | 24.9 | 61 | J | 13.0 | -49 | 127 | -5.1 | 9.5 | -6.9 | 2 | J |
| 7 | 507 | 12.5 | 67 | J | 16.2 | -56 | 183 | -7.1 | 2.6 | -10.3 | 10 | J |
| 8 | 533 | 14.4 | 108 | J | 16.1 | -39 | 180 | -11.8 | 2.2 | -9.3 | 5 | J |
| 9 | 484 | 13.7 | 103 | J | 17.8 | -15 | 169 | -16.2 | 4.0 | -3.7 | 5 | J |
| 10 | 481 | 15.8 | 153 | J | 19.0 | 17 | 171 | -17.1 | 1.7 | 5.7 | 5 | J |
| 11 | 537 | 21.2 | 180 | J | 19.6 | -4 | 85 | 1.6 | 18.2 | 1.7 | 7 | J |
| 12 | 528 | 21.3 | 179 | J | 18.6 | 50 | 112 | -4.2 | 8.0 | 14.9 | 7 | J |
| 13 | 544 | 19.9 | 186 | J | 18.6 | 65 | 111 | -2.2 | 3.1 | 13.7 | 12 | J |
| 14 | 567 | 11.0 | 158 | J | 19.5 | 84 | 68 | 0.7 | -2.2 | 19.0 | 4 | J |
| 15 | 562 | 12.3 | 184 | J | 18.6 | 50 | 110 | -3.4 | 6.1 | 13.8 | 10 | J |
| 16 | 583 | 16.3 | 173 | J | 19.4 | 53 | 80 | 1.7 | 5.3 | 15.1 | 11 | J |
| 17 | 553 | 42.5 | 44 | J | 19.9 | -18 | 121 | -9.6 | 17.0 | -0.2 | 4 | J |
| 18 | 537 | 22.3 | 45 | J | 22.7 | -13 | 122 | -11.3 | 18.5 | 2.5 | 7 | J |
| 19 | 540 | 21.8 | 54 | J | 22.4 | -46 | 143 | -12.1 | 15.1 | -10.2 | 5 | J |
| 20 | 538 | 27.6 | 71 | J | 18.0 | -55 | 142 | -7.7 | 11.9 | -9.4 | 6 | J |
| 21 | 526 | 18.2 | 41 | C | 18.4 | -40 | 134 | -9.4 | 14.3 | -4.9 | 4 | C |
| 22 | 519 | 26.1 | 41 | C | 14.7 | 7 | 119 | -6.3 | 8.8 | 7.3 | 7 | C |
| 23 | 514 | 13.7 | 66 | C | 14.5 | 16 | 110 | -4.6 | 8.7 | 10.1 | 3 | C |
| 24 | 501 | 20.5 | 45 | C | 12.1 | 2 | 118 | -5.5 | 8.6 | 6.0 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 492 | 9.7 | 64 | C | 12.6 | -2 | 139 | -9.4 | 7.2 | 3.9 | 1 | C |
| 2 | 484 | 7.2 | 100 | C | 11.5 | 18 | 161 | -5.6 | 0.7 | 2.6 | 10 | C |
| 3 | 527 | 6.0 | 63 | C | 11.9 | 36 | 3 | 9.6 | -2.8 | 6.3 | 2 | C |
| 4 | 520 | 9.4 | 49 | J | 11.5 | 55 | 22 | 6.1 | -1.8 | 9.6 | 0 | J |
| 5 | 489 | 13.8 | 83 | J | 8.6 | 72 | 337 | 2.0 | -3.3 | 5.7 | 6 | J |
| 6 | 478 | 15.3 | 119 | J | 7.7 | 27 | 281 | 0.3 | -2.0 | 0.3 | 8 | J |
| 7 | 478 | 9.4 | 163 | J | 6.6 | 67 | 8 | 0.6 | -0.3 | 1.3 | 7 | J |
| 8 | 517 | 5.4 | 80 | J | 12.6 | -35 | 167 | -9.8 | 3.9 | -6.3 | 3 | J |
| 9 | 516 | 3.8 | 62 | J | 13.8 | -26 | 157 | -11.3 | 5.9 | -4.9 | 2 | J |
| 10 | 480 | 5.9 | 70 | J | 13.6 | -32 | 174 | -10.2 | 2.2 | -6.1 | 6 | J |
| 11 | 538 | 5.6 | 115 | J | 12.3 | 0 | 134 | -4.7 | 4.8 | 0.8 | 10 | J |
| 12 | 589 | 14.4 | 129 | J | 11.3 | 48 | 42 | 5.2 | 3.3 | 8.4 | 5 | J |
| 13 | 599 | 29.6 | 161 | J | 5.2 | 40 | 74 | 1.0 | 2.8 | 3.6 | 3 | J |
| 14 | 602 | 27.4 | 150 | J | 6.0 | 50 | 93 | -0.2 | 2.6 | 5.0 | 3 | J |
| 15 | 580 | 17.4 | 126 | J | 10.0 | 60 | 37 | 3.9 | 0.7 | 9.0 | 3 | J |
| 16 | 585 | 9.6 | 72 | J | 10.0 | 56 | 334 | 5.0 | -4.8 | 7.2 | 1 | J |
| 17 | 596 | 9.0 | 120 | J | 10.2 | 51 | 332 | 5.6 | -5.5 | 6.3 | 2 | J |
| 18 | 602 | 15.6 | 273 | J | 6.4 | 24 | 343 | 5.4 | -2.5 | 1.7 | 2 | J |
| 19 | 576 | 14.7 | 108 | C | 7.0 | 46 | 313 | 3.2 | -5.3 | 2.9 | 1 | C |
| 20 | 564 | 23.4 | 66 | J | 7.8 | 30 | 348 | 6.5 | -3.1 | 2.7 | 2 | J |
| 21 | 573 | 17.5 | 94 | J | 9.7 | 45 | 4 | 6.3 | -2.9 | 5.7 | 4 | J |
| 22 | 580 | 16.1 | 135 | J | 9.5 | 52 | 30 | 5.1 | -1.5 | 7.9 | 2 | J |
| 23 | 575 | 12.8 | 80 | J | 10.6 | 47 | 42 | 5.1 | -0.1 | 8.7 | 4 | J |
| 24 | 570 | 25.5 | 109 | J | 10.3 | 43 | 67 | 2.5 | 1.7 | 8.2 | 6 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 591 | 23.6 | 83 | J | 14.2 | 56 | 42 | 5.7 | -1.7 | 12.3 | 4 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 555 | 10.7 | 153 | J | 10.4 | 31 | 306 | 5.1 | -8.0 | 3.4 | 2 | J |
| 9 | 629 | 6.1 | 163 | J | 11.4 | 71 | 194 | -2.6 | -2.2 | 7.6 | 8 | J |
| 10 | 619 | 6.1 | 128 | J | 9.4 | 43 | 160 | -6.3 | 1.1 | 6.5 | 3 | J |
| 11 | 505 | 10.2 | 141 | J | 3.9 | 3 | 143 | -2.9 | 2.1 | 0.6 | 2 | J |
| 12 | 592 | 9.6 | 112 | J | 6.3 | 6 | 106 | -1.5 | 4.9 | 1.4 | 4 | J |
| 13 | 572 | 14.0 | 51 | J | 10.7 | 31 | 111 | -3.2 | 7.2 | 6.9 | 2 | J |
| 14 | 572 | 9.5 | 55 | J | 12.2 | 75 | 1 | 3.1 | -2.5 | 11.2 | 3 | J |
| 15 | 564 | 8.3 | 49 | J | 12.2 | 71 | 32 | 3.1 | -0.9 | 10.9 | 4 | J |
| 16 | 553 | 11.0 | 34 | J | 11.4 | 60 | 337 | 4.1 | -4.0 | 6.8 | 7 | J |
| 17 | 561 | 9.9 | 49 | J | 9.8 | 50 | 22 | 5.4 | -0.4 | 7.2 | 4 | J |
| 18 | 556 | 8.6 | 42 | J | 10.9 | 73 | 35 | 2.6 | -2.4 | 10.3 | 1 | J |
| 19 | 559 | 10.3 | 43 | J | 11.6 | 69 | 31 | 3.5 | -2.8 | 10.6 | 2 | J |
| 20 | 575 | 14.3 | 49 | J | 11.0 | 65 | 358 | 4.6 | -4.9 | 8.6 | 1 | J |
| 21 | 615 | 5.8 | 140 | J | 7.8 | -26 | 291 | 2.4 | -3.8 | -6.1 | 2 | J |
| 22 | 587 | 4.2 | 92 | J | 9.5 | -15 | 302 | 4.8 | -5.2 | -6.2 | 2 | J |
| 23 | 524 | 2.0 | 76 | C | 9.7 | 2 | 315 | 6.7 | -5.8 | -3.4 | 2 | J |
| 24 | 546 | 3.1 | 39 | J | 9.5 | 5 | 309 | 5.8 | -6.5 | -3.2 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 533 | 2.7 | 47 | J | 9.2 | 4 | 309 | 5.6 | -6.2 | -3.2 | 2 | J |
| 2 | 536 | 2.2 | 71 | J | 9.1 | 7 | 310 | 5.7 | -6.4 | -2.6 | 1 | J |
| 3 | 510 | 2.2 | 83 | C | 8.6 | 1 | 321 | 6.2 | -4.4 | -2.3 | 3 | C |
| 4 | 513 | 2.2 | 83 | C | 8.7 | 15 | 307 | 4.9 | -6.9 | -0.9 | 2 | C |
| 5 | 555 | 2.3 | 104 | C | 8.1 | 15 | 292 | 2.8 | -7.2 | -0.8 | 2 | C |
| 6 | 529 | 2.5 | 102 | C | 7.9 | 5 | 300 | 3.9 | -6.6 | -1.7 | 1 | C |
| 7 | 516 | 2.5 | 113 | C | 7.4 | 2 | 312 | 4.8 | -5.2 | -1.3 | 2 | C |
| 8 | 544 | 2.6 | 118 | J | 6.6 | -7 | 310 | 4.0 | -4.5 | -1.9 | 2 | J |
| 9 | 554 | 2.7 | 102 | J | 6.4 | -7 | 306 | 3.6 | -4.7 | -1.8 | 1 | J |
| 10 | 566 | 2.7 | 105 | J | 6.1 | -5 | 301 | 2.9 | -4.7 | -1.4 | 2 | J |
| 11 | 567 | 2.8 | 120 | J | 5.7 | -7 | 308 | 2.9 | -3.5 | -1.2 | 3 | J |
| 12 | 564 | 2.7 | 119 | J | 5.5 | -5 | 315 | 3.5 | -3.4 | -1.1 | 2 | J |
| 13 | 551 | 2.4 | 119 | J | 5.6 | 0 | 326 | 4.3 | -2.9 | -0.6 | 2 | J |
| 14 | 564 | 2.5 | 118 | J | 5.5 | -2 | 316 | 3.6 | -3.3 | -0.9 | 2 | J |
| 15 | 563 | 2.6 | 124 | J | 5.3 | -8 | 314 | 3.4 | -3.2 | -1.6 | 2 | J |
| 16 | 564 | 2.5 | 122 | J | 5.4 | -9 | 325 | 3.8 | -2.3 | -1.5 | 3 | J |
| 17 | 562 | 2.3 | 90 | J | 5.7 | 6 | 330 | 4.7 | -2.7 | -0.4 | 2 | J |
| 18 | 558 | 2.3 | 101 | J | 5.8 | -16 | 326 | 4.1 | -2.0 | -2.4 | 3 | J |
| 19 | 556 | 2.0 | 84 | J | 6.3 | -10 | 340 | 5.4 | -1.3 | -1.8 | 2 | J |
| 20 | 528 | 2.7 | 153 | L | 6.1 | 2 | 339 | 5.2 | -1.9 | -0.8 | 2 | J |
| 21 | 563 | 2.3 | 97 | J | 6.0 | -3 | 312 | 3.4 | -3.1 | -2.2 | 3 | J |
| 22 | 576 | 2.4 | 98 | J | 6.1 | -5 | 299 | 2.8 | -3.9 | -3.1 | 2 | J |
| 23 | 549 | 2.5 | 93 | J | 6.1 | -4 | 310 | 3.8 | -3.6 | -2.8 | 2 | J |
| 24 | 531 | 2.4 | 80 | J | 6.3 | 10 | 329 | 5.1 | -3.1 | -0.8 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 530 | 2.5 | 73 | J | 6.2 | 5 | 317 | 4.2 | -3.5 | -1.7 | 2 | J |
| 2 | 524 | 2.6 | 101 | J | 5.9 | -7 | 315 | 3.9 | -3.0 | -2.6 | 2 | J |
| 3 | 511 | 2.3 | 73 | J | 6.1 | -23 | 337 | 4.7 | -0.7 | -2.8 | 2 | J |
| 4 | 522 | 2.5 | 73 | J | 6.2 | -10 | 321 | 4.4 | -2.8 | -2.5 | 2 | J |
| 5 | 544 | 3.1 | 100 | J | 5.9 | -21 | 278 | 0.6 | -3.6 | -3.4 | 3 | J |
| 6 | 514 | 2.8 | 80 | J | 6.0 | -4 | 316 | 3.9 | -3.5 | -1.6 | 2 | J |
| 7 | 520 | 2.9 | 94 | J | 5.9 | -20 | 303 | 2.7 | -3.4 | -2.9 | 3 | J |
| 8 | 530 | 2.7 | 79 | J | 6.3 | -19 | 304 | 3.1 | -4.0 | -3.0 | 2 | J |
| 9 | 495 | 2.3 | 52 | J | 6.7 | 9 | 342 | 5.8 | -2.1 | 0.6 | 2 | J |
| 10 | 485 | 2.5 | 55 | J | 7.0 | -6 | 340 | 6.4 | -2.1 | -1.1 | 2 | J |
| 11 | 490 | 2.4 | 62 | J | 6.2 | -16 | 332 | 5.1 | -2.4 | -2.1 | 2 | J |
| 12 | 486 | 2.6 | 79 | J | 5.8 | -15 | 320 | 4.1 | -3.2 | -2.1 | 2 | J |
| 13 | 462 | 2.7 | 51 | J | 6.2 | -17 | 322 | 4.5 | -3.1 | -2.4 | 1 | J |
| 14 | 473 | 4.5 | 41 | J | 6.2 | 10 | 55 | 2.4 | 3.1 | 1.5 | 5 | J |
| 15 | 450 | 3.8 | 36 | J | 6.5 | 2 | 49 | 3.8 | 4.2 | 1.3 | 2 | C |
| 16 | 456 | 5.0 | 39 | J | 7.0 | 3 | 62 | 2.9 | 5.0 | 1.9 | 3 | J |
| 17 | 480 | 5.6 | 39 | J | 7.2 | 20 | 84 | 0.6 | 4.7 | 4.0 | 4 | J |
| 18 | 459 | 5.3 | 41 | J | 7.3 | 8 | 65 | 2.5 | 4.5 | 2.9 | 4 | J |
| 19 | 431 | 4.5 | 40 | J | 7.1 | 10 | 30 | 5.1 | 2.2 | 2.3 | 3 | J |
| 20 | 424 | 4.3 | 44 | J | 7.2 | -22 | 355 | 5.4 | 0.7 | -2.2 | 4 | J |
| 21 | 443 | 4.8 | 61 | J | 7.5 | -22 | 348 | 6.4 | 0.1 | -3.0 | 2 | C |
| 22 | 429 | 4.2 | 58 | C | 7.4 | -21 | 328 | 5.5 | -1.6 | -3.9 | 2 | C |
| 23 | 446 | 3.5 | 72 | C | 8.2 | 7 | 323 | 6.2 | -4.4 | -1.8 | 2 | C |
| 24 | 456 | 3.4 | 71 | C | 8.6 | -10 | 311 | 5.4 | -4.3 | -4.6 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 476 | 2.9 | 83 | C | 8.8 | -15 | 290 | 2.8 | -5.3 | -6.1 | 2 | C |
| 2 | 465 | 2.6 | 78 | C | 8.6 | -9 | 307 | 4.9 | -5.0 | -4.4 | 2 | C |
| 3 | 460 | 2.4 | 69 | C | 8.9 | -3 | 315 | 6.2 | -5.3 | -3.4 | 1 | C |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 497 | 2.9 | 96 | C | 8.9 | -24 | 294 | 3.2 | -5.5 | -5.6 | 2 | C |
| 7 | 485 | 2.9 | 94 | C | 8.7 | -12 | 298 | 3.9 | -6.4 | -3.8 | 2 | C |
| 8 | 473 | 2.8 | 77 | C | 8.7 | -2 | 310 | 5.5 | -6.3 | -1.9 | 1 | C |
| 9 | 464 | 2.9 | 73 | C | 8.9 | -12 | 314 | 5.9 | -5.7 | -3.1 | 1 | C |
| 10 | 472 | 2.8 | 69 | C | 8.9 | -22 | 307 | 4.9 | -5.7 | -4.5 | 1 | C |
| 11 | 463 | 2.8 | 65 | C | 8.8 | -21 | 306 | 4.8 | -5.9 | -4.3 | 1 | C |
| 12 | 465 | 3.0 | 52 | C | 8.5 | -20 | 295 | 3.3 | -6.5 | -4.1 | 2 | C |
| 13 | 475 | 3.3 | 50 | C | 8.3 | -22 | 274 | 0.6 | -6.8 | -4.5 | 1 | C |
| 14 | 472 | 4.0 | 50 | C | 8.3 | -24 | 258 | -1.5 | -6.3 | -4.9 | 1 | C |
| 15 | 452 | 4.0 | 50 | C | 8.5 | -22 | 281 | 1.4 | -6.5 | -5.0 | 1 | C |
| 16 | 460 | 4.4 | 50 | C | 8.6 | -31 | 275 | 0.6 | -5.3 | -6.1 | 2 | C |
| 17 | 452 | 4.3 | 46 | C | 8.9 | -31 | 278 | 1.1 | -5.2 | -6.8 | 2 | C |
| 18 | 449 | 3.8 | 60 | C | 8.7 | -30 | 293 | 2.8 | -4.4 | -6.5 | 2 | C |
| 19 | 462 | 3.1 | 71 | C | 9.0 | -38 | 283 | 1.5 | -3.7 | -7.9 | 1 | C |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 453 | 3.7 | 76 | C | 8.5 | -38 | 262 | -0.9 | -2.9 | -7.7 | 2 | C |
| 22 | 448 | 2.8 | 89 | C | 8.3 | -22 | 285 | 1.9 | -4.3 | -6.4 | 2 | C |
| 23 | 447 | 3.0 | 92 | C | 8.2 | -22 | 292 | 2.8 | -4.1 | -6.3 | 1 | C |
| 24 | 449 | 3.4 | 71 | C | 8.3 | -25 | 291 | 2.6 | -3.9 | -6.6 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 473 | 3.5 | 72 | C | 8.4 | -41 | 271 | 0.1 | -2.2 | -7.6 | 2 | C |
| 2 | 496 | 2.8 | 93 | C | 8.4 | -35 | 283 | 1.5 | -3.2 | -7.4 | 1 | C |
| 3 | 483 | 2.9 | 81 | C | 8.1 | -23 | 292 | 2.8 | -4.5 | -6.0 | 1 | C |
| 4 | 464 | 2.7 | 80 | C | 8.2 | -21 | 301 | 3.9 | -4.4 | -5.4 | 1 | C |
| 5 | 486 | 2.9 | 81 | C | 8.1 | -14 | 298 | 3.4 | -5.2 | -4.1 | 3 | C |
| 6 | 450 | 3.0 | 76 | C | 7.9 | 8 | 334 | 6.9 | -3.5 | -0.2 | 1 | C |
| 7 | 484 | 2.7 | 88 | C | 8.1 | -17 | 292 | 2.8 | -5.8 | -4.1 | 2 | C |
| 8 | 449 | 2.8 | 73 | C | 8.2 | -4 | 318 | 6.0 | -5.0 | -1.8 | 1 | C |
| 9 | 453 | 2.9 | 83 | C | 8.1 | 8 | 327 | 6.6 | -4.4 | 0.1 | 2 | C |
| 10 | 452 | 2.8 | 72 | C | 8.1 | -9 | 327 | 6.5 | -3.9 | -2.0 | 2 | C |
| 11 | 456 | 2.7 | 84 | C | 7.9 | -15 | 312 | 4.7 | -4.8 | -2.8 | 3 | C |
| 12 | 458 | 2.7 | 84 | C | 8.4 | -10 | 305 | 4.6 | -6.2 | -2.6 | 1 | C |
| 13 | 450 | 2.7 | 86 | C | 8.3 | -13 | 315 | 5.3 | -5.0 | -2.8 | 3 | C |
| 14 | 448 | 2.9 | 86 | C | 8.5 | -16 | 304 | 4.3 | -5.8 | -3.6 | 2 | C |
| 15 | 460 | 3.4 | 96 | C | 8.3 | -17 | 300 | 3.9 | -5.8 | -4.1 | 1 | C |
| 16 | 450 | 3.1 | 77 | C | 8.0 | -5 | 308 | 4.8 | -5.6 | -2.6 | 1 | C |
| 17 | 453 | 3.2 | 83 | C | 8.0 | -10 | 318 | 5.8 | -4.3 | -3.1 | 1 | C |
| 18 | 438 | 3.3 | 78 | C | 8.2 | 7 | 333 | 6.8 | -3.6 | -0.5 | 2 | C |
| 19 | 430 | 3.6 | 72 | C | 7.7 | 20 | 353 | 7.1 | -2.0 | 1.9 | 1 | C |
| 20 | 435 | 3.8 | 81 | C | 7.3 | 15 | 338 | 6.0 | -3.0 | 0.3 | 3 | C |
| 21 | 414 | 4.0 | 74 | C | 7.5 | 25 | 346 | 6.3 | -2.9 | 1.8 | 2 | C |
| 22 | 413 | 3.9 | 56 | C | 7.7 | 0 | 325 | 6.2 | -3.6 | -2.4 | 1 | C |
| 23 | 408 | 4.2 | 56 | C | 7.5 | 2 | 332 | 6.4 | -2.9 | -1.7 | 2 | C |
| 24 | 417 | 4.2 | 55 | C | 7.7 | -21 | 305 | 3.5 | -3.0 | -4.8 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 407 | 4.0 | 54 | C | 7.7 | -24 | 302 | 3.6 | -3.1 | -5.6 | 2 | C |
| 2 | 423 | 3.9 | 53 | C | 7.7 | -23 | 279 | 1.1 | -4.2 | -5.8 | 2 | C |
| 3 | 393 | 4.3 | 51 | C | 7.5 | 12 | 309 | 4.6 | -5.7 | -1.4 | 0 | C |
| 4 | 399 | 4.9 | 75 | C | 6.6 | 34 | 334 | 4.0 | -3.1 | 1.8 | 3 | C |
| 5 | 387 | 5.8 | 71 | C | 6.2 | 30 | 29 | 4.0 | 1.0 | 3.4 | 2 | C |
| 6 | 369 | 6.1 | 70 | C | 6.3 | 26 | 342 | 4.3 | -2.0 | 1.6 | 3 | C |
| 7 | 369 | 5.9 | 60 | C | 6.7 | 26 | 326 | 4.6 | -3.8 | 1.7 | 2 | C |
| 8 | 375 | 6.0 | 52 | C | 6.9 | 6 | 299 | 3.1 | -5.5 | -0.8 | 2 | C |
| 9 | 392 | 6.0 | 48 | C | 6.9 | 52 | 319 | 2.4 | -2.9 | 3.5 | 4 | C |
| 10 | 370 | 7.0 | 54 | C | 6.9 | -31 | 40 | 3.9 | 3.8 | -2.3 | 2 | C |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 437 | 7.0 | 68 | C | 10.3 | 47 | 274 | 0.4 | -6.1 | 4.1 | 6 | C |
| 15 | 420 | 6.3 | 53 | C | 10.5 | -32 | 275 | 0.7 | -6.6 | -7.3 | 3 | C |
| 16 | 419 | 6.2 | 51 | C | 9.9 | -17 | 271 | 0.2 | -7.6 | -5.3 | 3 | C |
| 17 | 425 | 5.8 | 44 | C | 9.6 | -21 | 256 | -2.1 | -6.8 | -6.2 | 1 | C |
| 18 | 408 | 5.5 | 42 | C | 9.2 | -26 | 262 | -1.2 | -5.8 | -6.9 | 1 | C |
| 19 | 390 | 5.4 | 40 | C | 8.7 | -29 | 276 | 0.8 | -4.8 | -7.1 | 1 | C |
| 20 | 392 | 5.3 | 39 | C | 8.1 | -19 | 277 | 0.9 | -5.2 | -6.0 | 1 | C |
| 21 | 379 | 5.9 | 47 | C | 7.1 | -11 | 299 | 3.0 | -3.9 | -3.7 | 3 | C |
| 22 | 356 | 7.0 | 50 | C | 6.3 | 7 | 359 | 5.8 | -0.4 | 0.6 | 2 | C |
| 23 | 362 | 6.7 | 54 | C | 5.9 | 13 | 332 | 4.6 | -2.7 | -0.4 | 2 | C |
| 24 | 364 | 6.5 | 45 | C | 6.0 | 0 | 317 | 3.2 | -2.5 | -1.7 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 6.5 | 36 | C | 5.9 | 32 | 328 | 3.9 | -3.6 | 1.1 | 2 | C |
| 2 | 366 | 6.2 | 36 | C | 5.9 | -21 | 284 | 1.3 | -3.3 | -4.3 | 1 | C |
| 3 | 365 | 6.6 | 41 | C | 5.7 | -1 | 307 | 2.7 | -3.1 | -1.8 | 3 | C |
| 4 | 370 | 8.0 | 45 | C | 7.0 | -1 | 310 | 3.7 | -3.9 | -2.1 | 4 | C |
| 5 | 369 | 7.7 | 42 | C | 6.6 | 29 | 322 | 3.8 | -3.9 | 1.3 | 2 | C |
| 6 | 359 | 7.9 | 42 | C | 6.5 | 7 | 329 | 4.8 | -3.0 | -0.4 | 2 | C |
| 7 | 362 | 8.0 | 39 | C | 6.3 | -12 | 310 | 3.3 | -3.4 | -2.2 | 3 | C |
| 8 | 364 | 7.7 | 37 | C | 5.9 | -14 | 319 | 3.4 | -2.6 | -1.8 | 3 | C |
| 9 | 349 | 8.5 | 33 | C | 6.5 | 26 | 337 | 5.3 | -2.8 | 2.3 | 1 | C |
| 10 | 355 | 8.2 | 30 | C | 6.5 | -11 | 314 | 4.2 | -4.0 | -2.0 | 2 | C |
| 11 | 357 | 7.9 | 29 | C | 6.5 | -28 | 301 | 2.9 | -4.2 | -3.9 | 1 | C |
| 12 | 356 | 7.5 | 25 | C | 6.7 | -44 | 300 | 2.4 | -3.2 | -5.2 | 1 | C |
| 13 | 349 | 7.4 | 24 | C | 6.5 | -41 | 308 | 2.9 | -2.8 | -4.9 | 1 | C |
| 14 | 345 | 7.3 | 27 | C | 6.3 | -35 | 323 | 3.8 | -2.0 | -3.9 | 2 | C |
| 15 | 348 | 7.3 | 24 | C | 6.3 | -51 | 326 | 3.2 | -0.8 | -5.2 | 1 | C |
| 16 | 355 | 7.3 | 22 | C | 6.4 | -52 | 309 | 2.4 | -1.3 | -5.5 | 1 | C |
| 17 | 336 | 7.9 | 26 | C | 6.3 | -29 | 337 | 4.5 | -0.8 | -3.3 | 2 | C |
| 18 | 354 | 7.5 | 29 | C | 6.2 | -27 | 296 | 2.2 | -3.1 | -4.2 | 2 | C |
| 19 | 346 | 7.9 | 32 | C | 6.3 | -24 | 320 | 2.9 | -1.4 | -2.6 | 5 | C |
| 20 | 354 | 7.7 | 26 | C | 6.4 | 51 | 12 | 2.7 | -1.2 | 3.3 | 4 | C |
| 21 | 344 | 8.1 | 29 | C | 6.4 | 27 | 359 | 4.7 | -1.3 | 1.9 | 3 | C |
| 22 | 329 | 8.8 | 28 | C | 6.5 | -16 | 342 | 5.8 | -0.6 | -2.5 | 1 | C |
| 23 | 329 | 8.8 | 27 | C | 6.6 | 17 | 351 | 6.0 | -1.8 | 1.0 | 2 | C |
| 24 | 346 | 8.5 | 28 | C | 6.8 | -28 | 314 | 2.9 | -1.3 | -3.5 | 5 | C |

MAR. 2, 1979 61

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 8.5 | 27 | C | 7.0 | -53 | 285 | 1.0 | -0.3 | -6.1 | 3 | C |
| 2 | 348 | 9.2 | 31 | C | 6.9 | -46 | 289 | 1.5 | -1.2 | -6.3 | 1 | C |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 350 | 11.4 | 43 | C | 6.9 | 30 | 306 | 3.2 | -5.2 | 1.7 | 2 | C |
| 8 | 353 | 10.9 | 43 | C | 7.0 | 6 | 302 | 3.0 | -4.8 | -0.7 | 4 | C |
| 9 | 347 | 10.0 | 37 | C | 7.8 | 41 | 352 | 5.6 | -1.8 | 4.6 | 2 | C |
| 10 | 349 | 10.2 | 40 | C | 7.9 | -11 | 23 | 5.9 | 2.7 | -0.7 | 4 | C |
| 11 | 352 | 9.4 | 42 | C | 7.6 | -19 | 313 | 4.1 | -3.9 | -2.9 | 4 | C |
| 12 | 364 | 8.7 | 45 | C | 7.6 | -58 | 292 | 1.3 | -2.1 | -6.1 | 3 | C |
| 13 | 360 | 7.9 | 45 | C | 7.8 | -38 | 285 | 1.4 | -4.3 | -5.4 | 3 | C |
| 14 | 365 | 7.7 | 74 | C | 7.0 | -19 | 301 | 2.9 | -4.1 | -2.9 | 3 | C |
| 15 | 369 | 7.6 | 78 | C | 6.6 | -18 | 299 | 2.4 | -3.8 | -2.8 | 3 | C |
| 16 | 362 | 8.0 | 77 | C | 6.6 | -11 | 305 | 3.3 | -4.2 | -2.5 | 2 | C |
| 17 | 364 | 7.4 | 68 | C | 7.1 | 28 | 324 | 4.9 | -4.5 | 1.7 | 1 | C |
| 18 | 375 | 6.6 | 69 | C | 7.5 | 37 | 324 | 4.5 | -4.7 | 2.5 | 3 | C |
| 19 | 393 | 5.6 | 83 | C | 7.8 | 31 | 306 | 3.5 | -5.9 | 0.9 | 3 | C |
| 20 | 400 | 5.6 | 79 | C | 7.8 | -34 | 289 | 1.8 | -2.7 | -5.8 | 4 | C |
| 21 | 385 | 5.3 | 70 | C | 7.5 | 13 | 306 | 3.4 | -4.6 | -1.3 | 4 | C |
| 22 | 399 | 5.7 | 95 | C | 6.5 | 11 | 297 | 2.4 | -4.6 | -1.7 | 3 | C |
| 23 | 395 | 6.1 | 91 | C | 6.2 | -27 | 306 | 2.3 | -1.6 | -3.5 | 4 | C |
| 24 | 405 | 6.0 | 83 | C | 6.1 | -48 | 297 | 1.5 | -0.4 | -4.7 | 3 | C |

MAR. 3, 1979 62

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 6.2 | 84 | C | 5.9 | -2 | 290 | 1.7 | -3.7 | -2.6 | 2 | C |
| 2 | 380 | 6.5 | 71 | C | 6.0 | 6 | 320 | 3.8 | -3.0 | -1.2 | 3 | C |
| 3 | 367 | 6.4 | 60 | C | 6.2 | 19 | 340 | 5.0 | -2.5 | 0.7 | 2 | C |
| 4 | 368 | 6.1 | 47 | C | 6.5 | 37 | 344 | 4.8 | -2.9 | 2.8 | 1 | C |
| 5 | 358 | 5.9 | 40 | C | 6.5 | 21 | 341 | 5.7 | -2.7 | 1.3 | 1 | C |
| 6 | 361 | 6.3 | 40 | C | 6.5 | 5 | 326 | 4.2 | -2.8 | -0.6 | 4 | C |
| 7 | 356 | 7.7 | 32 | C | 6.4 | -12 | 297 | 2.8 | -4.7 | -2.8 | 1 | C |
| 8 | 351 | 8.0 | 31 | C | 6.3 | 12 | 315 | 4.1 | -4.3 | 0.1 | 2 | C |
| 9 | 357 | 7.8 | 33 | C | 6.2 | 15 | 319 | 4.2 | -3.8 | 0.6 | 2 | C |
| 10 | 352 | 7.6 | 36 | C | 6.6 | 29 | 338 | 5.2 | -2.7 | 2.6 | 1 | C |
| 11 | 351 | 8.1 | 29 | C | 6.8 | 36 | 348 | 5.1 | -1.7 | 3.5 | 2 | C |
| 12 | 347 | 8.5 | 29 | C | 6.8 | 44 | 352 | 4.5 | -1.5 | 4.1 | 2 | C |
| 13 | 357 | 7.9 | 33 | C | 6.5 | -27 | 287 | 1.6 | -4.5 | -3.8 | 1 | C |
| 14 | 353 | 8.0 | 33 | C | 6.3 | -41 | 292 | 1.6 | -3.1 | -4.7 | 2 | C |
| 15 | 352 | 8.1 | 35 | C | 6.0 | -29 | 285 | 1.2 | -3.7 | -3.8 | 2 | C |
| 16 | 346 | 8.1 | 33 | C | 6.3 | -39 | 292 | 1.6 | -2.8 | -4.6 | 2 | C |
| 17 | 349 | 8.0 | 33 | C | 6.8 | -19 | 285 | 1.5 | -4.4 | -3.9 | 3 | C |
| 18 | 352 | 7.6 | 32 | C | 7.0 | -35 | 290 | 1.8 | -2.9 | -5.3 | 2 | C |
| 19 | 346 | 8.0 | 31 | C | 7.1 | -30 | 297 | 2.6 | -3.0 | -5.3 | 2 | C |
| 20 | 351 | 7.7 | 27 | C | 7.5 | -36 | 293 | 2.2 | -2.5 | -6.1 | 2 | C |
| 21 | 366 | 7.9 | 25 | C | 8.0 | -49 | 276 | 0.5 | -1.2 | -7.5 | 2 | C |
| 22 | 360 | 7.6 | 27 | C | 8.1 | -25 | 284 | 1.7 | -4.0 | -6.6 | 2 | C |
| 23 | 353 | 7.5 | 28 | C | 8.0 | 3 | 295 | 3.2 | -6.1 | -3.6 | 2 | C |
| 24 | 360 | 7.2 | 35 | C | 7.6 | -8 | 291 | 2.4 | -4.8 | -4.4 | 3 | C |

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MAR. 4, 1979 63

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 363 | 7.7 | 38 | C | 6.1 | -50 | 306 | 2.0 | -0.1 | -5.0 | 3 | C |
| 2 | 354 | 7.7 | 36 | C | 7.5 | -16 | 315 | 4.8 | -3.1 | -4.2 | 2 | C |
| 3 | 356 | 7.0 | 38 | C | 8.2 | 15 | 312 | 5.0 | -5.8 | -0.9 | 2 | C |
| 4 | 348 | 6.9 | 34 | C | 8.5 | 2 | 297 | 3.7 | -6.7 | -3.0 | 2 | C |
| 5 | | | | | | | | | | | | |
| 6 | | | | | 15.8 | 22 | 307 | 8.7 | -13.0 | 1.4 | 1 | C |
| 7 | 413 | 10.8 | 60 | C | 15.3 | 33 | 309 | 7.8 | -11.7 | 4.7 | 3 | C |
| 8 | 413 | 20.1 | 78 | L | 15.6 | 30 | 306 | 7.3 | -11.5 | 4.2 | 6 | C |
| 9 | 412 | 19.0 | 80 | L | 15.5 | -30 | 295 | 5.5 | -9.6 | -9.7 | 4 | C |
| 10 | 412 | 21.0 | 65 | L | 12.7 | -69 | 248 | -1.7 | -1.6 | -12.1 | 3 | C |
| 11 | 402 | 22.2 | 79 | L | 11.0 | -38 | 271 | 0.1 | -5.7 | -6.6 | 5 | C |
| 12 | 399 | 20.5 | 93 | L | 12.5 | 21 | 301 | 5.9 | -10.3 | 2.4 | 3 | C |
| 13 | 391 | 22.0 | 88 | L | 10.9 | 20 | 299 | 3.0 | -5.8 | 1.0 | 8 | C |
| 14 | 398 | 18.9 | 61 | J | 9.4 | -37 | 279 | 1.0 | -5.2 | -6.4 | 4 | J |
| 15 | 384 | 15.1 | 63 | J | 10.8 | 44 | 314 | 5.0 | -6.9 | 5.2 | 4 | J |
| 16 | 380 | 12.4 | 43 | J | 11.4 | 49 | 313 | 5.0 | -7.8 | 6.3 | 1 | J |
| 17 | 380 | 14.6 | 63 | J | 9.9 | 26 | 319 | 6.1 | -6.4 | 1.7 | 4 | J |
| 18 | 401 | 14.8 | 91 | J | 9.2 | -16 | 304 | 4.4 | -5.0 | -4.8 | 4 | J |
| 19 | 394 | 14.8 | 98 | J | 9.4 | -1 | 309 | 5.5 | -5.9 | -3.2 | 3 | J |
| 20 | 396 | 12.1 | 74 | J | 12.0 | 27 | 321 | 8.1 | -8.3 | 1.3 | 2 | J |
| 21 | 397 | 10.7 | 64 | J | 12.3 | 32 | 318 | 7.4 | -8.9 | 1.7 | 4 | J |
| 22 | 412 | 9.4 | 66 | J | 12.5 | 28 | 312 | 7.0 | -9.6 | 0.4 | 4 | J |
| 23 | 438 | 11.2 | 101 | J | 11.5 | -20 | 290 | 3.4 | -5.7 | -8.2 | 5 | J |
| 24 | 444 | 8.4 | 97 | C | 11.2 | 50 | 342 | 6.6 | -6.5 | 5.7 | 2 | C |

MAR. 5, 1979 64

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 430 | 8.5 | 118 | C | 9.6 | 19 | 336 | 7.2 | -4.1 | 0.5 | 4 | C |
| 417 | 8.3 | 84 | J | 8.8 | 11 | 316 | 5.4 | -5.2 | -1.5 | 4 | J |
| 435 | 10.6 | 159 | J | 10.0 | -7 | 298 | 4.4 | -6.7 | -5.1 | 3 | J |
| 431 | 9.6 | 133 | J | 9.6 | -7 | 300 | 4.5 | -6.4 | -4.5 | 3 | J |
| 413 | 8.0 | 71 | J | 9.0 | 14 | 329 | 6.9 | -4.6 | 0.2 | 3 | J |
| 425 | 7.8 | 113 | J | 9.0 | -11 | 310 | 5.4 | -5.5 | -3.8 | 2 | J |
| 458 | 6.2 | 93 | J | 9.0 | 14 | 332 | 7.5 | -4.5 | 0.8 | 2 | J |
| 460 | 6.9 | 173 | J | 7.4 | 7 | 333 | 6.0 | -3.2 | -0.0 | 3 | J |
| 467 | 7.3 | 239 | J | 4.8 | -16 | 339 | 3.7 | -1.1 | -1.4 | 3 | J |
| 458 | 7.4 | 196 | J | 4.6 | -1 | 319 | 3.1 | -2.6 | -0.6 | 2 | J |
| 456 | 7.5 | 185 | J | 6.1 | -12 | 306 | 3.1 | -4.0 | -1.9 | 3 | J |
| 468 | 7.4 | 264 | J | 6.6 | 14 | 323 | 4.9 | -3.9 | 0.8 | 2 | J |
| 464 | 6.9 | 176 | J | 7.1 | 31 | 333 | 5.2 | -3.3 | 2.9 | 2 | J |
| 447 | 5.4 | 105 | J | 7.9 | 23 | 333 | 6.5 | -3.9 | 2.2 | 1 | J |
| 438 | 5.4 | 117 | J | 8.0 | 14 | 334 | 6.9 | -3.8 | 0.9 | 1 | J |
| 428 | 5.2 | 131 | J | 8.0 | 14 | 327 | 6.4 | -4.6 | 0.5 | 1 | J |
| 412 | 3.8 | 54 | J | 7.2 | 17 | 333 | 5.9 | -3.5 | 0.8 | 2 | J |
| 409 | 4.8 | 58 | J | 7.5 | 18 | 319 | 5.3 | -5.2 | 0.1 | 1 | J |
| 412 | 5.1 | 61 | J | 7.3 | 15 | 315 | 4.8 | -5.1 | -0.6 | 1 | J |
| 415 | 5.0 | 68 | J | 7.3 | 15 | 318 | 4.9 | -4.7 | -0.7 | 2 | J |
| 414 | 4.6 | 42 | J | 7.7 | 26 | 329 | 5.9 | -4.8 | 1.0 | 1 | J |
| 406 | 5.6 | 75 | J | 7.6 | 19 | 329 | 5.4 | -3.9 | 0.0 | 4 | J |
| 411 | 5.5 | 101 | C | 7.3 | 28 | 314 | 4.4 | -5.7 | 0.3 | 1 | C |
| 409 | 5.9 | 110 | C | 6.2 | -24 | 315 | 3.3 | -1.5 | -3.6 | 3 | C |

MAR. 6, 1979 65

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 392 | 5.2 | 105 | C | 6.7 | 9 | 349 | 6.2 | -1.6 | 0.2 | 2 | C |
| 2 | 416 | 5.0 | 117 | C | 6.0 | -3 | 318 | 3.1 | -2.2 | -1.6 | 4 | C |
| 3 | 448 | 4.9 | 142 | C | 5.6 | -54 | 277 | 0.3 | -0.6 | -5.1 | 2 | C |
| 4 | 443 | 4.6 | 153 | C | 7.2 | -16 | 310 | 4.0 | -3.4 | -3.7 | 3 | C |
| 5 | 477 | 6.4 | 111 | J | 6.9 | 14 | 324 | 5.1 | -4.0 | -0.1 | 2 | J |
| 6 | 467 | 5.0 | 99 | J | 6.7 | -12 | 311 | 4.2 | -4.0 | -3.0 | 1 | J |
| 7 | 461 | 5.2 | 91 | J | 7.2 | -11 | 317 | 5.0 | -4.0 | -2.7 | 2 | J |
| 8 | 454 | 6.1 | 132 | J | 8.0 | -20 | 315 | 5.2 | -4.4 | -4.0 | 1 | J |
| 9 | 475 | 7.6 | 120 | J | 10.3 | -32 | 303 | 4.5 | -5.5 | -6.6 | 4 | J |
| 10 | 487 | 7.9 | 138 | J | 12.0 | -46 | 304 | 4.5 | -4.8 | -9.5 | 3 | J |
| 11 | 477 | 6.5 | 112 | J | 11.5 | -40 | 309 | 5.5 | -5.3 | -8.6 | 1 | J |
| 12 | 468 | 6.3 | 110 | J | 11.1 | -41 | 313 | 5.7 | -4.5 | -8.3 | 2 | J |
| 13 | 461 | 6.6 | 132 | J | 10.3 | -47 | 311 | 4.6 | -3.5 | -8.4 | 1 | J |
| 14 | 475 | 6.3 | 160 | J | 9.3 | -15 | 282 | 1.6 | -6.7 | -3.7 | 5 | J |
| 15 | 474 | 5.7 | 208 | J | 9.6 | -44 | 317 | 4.1 | -2.1 | -6.2 | 6 | J |
| 16 | 524 | 6.6 | 277 | J | 7.9 | -40 | 34 | 2.7 | 2.6 | -2.0 | 7 | J |
| 17 | 519 | 7.9 | 208 | J | 6.2 | -37 | 325 | 3.9 | -1.2 | -4.3 | 2 | J |
| 18 | 516 | 6.6 | 142 | C | 5.9 | -3 | 50 | 2.9 | 3.3 | 1.2 | 3 | C |
| 19 | 519 | 4.6 | 98 | J | 5.9 | -36 | 332 | 4.1 | -0.4 | -4.0 | 2 | J |
| 20 | 512 | 3.5 | 88 | J | 5.7 | -32 | 317 | 3.4 | -1.3 | -4.1 | 2 | J |
| 21 | 505 | 2.7 | 91 | J | 5.3 | -39 | 297 | 1.8 | -1.3 | -4.7 | 1 | J |
| 22 | 457 | 3.0 | 132 | J | 4.1 | 11 | 313 | 1.9 | -2.0 | -0.7 | 3 | J |
| 23 | 462 | 3.4 | 132 | J | 5.0 | 49 | 319 | 2.4 | -3.7 | 1.8 | 1 | J |
| 24 | 416 | 2.8 | 82 | C | 5.9 | -12 | 316 | 4.0 | -2.6 | -3.2 | 1 | C |

MAR. 7, 1979 66

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 413 | 3.2 | 71 | C | 5.9 | -11 | 318 | 4.2 | -2.6 | -3.0 | 1 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 472 | 4.8 | 44 | J | 7.6 | 18 | 263 | -0.9 | -7.5 | -0.4 | 1 | J |
| 465 | 4.9 | 39 | J | 7.8 | 13 | 263 | -0.9 | -7.6 | -0.6 | 1 | J |
| 468 | 4.7 | 36 | J | 7.5 | 45 | 255 | -1.3 | -6.2 | 3.7 | 2 | J |
| 464 | 3.9 | 40 | J | 7.6 | 35 | 257 | -1.4 | -6.8 | 2.8 | 1 | J |
| 475 | 3.6 | 39 | J | 7.4 | 37 | 240 | -2.9 | -5.8 | 3.2 | 1 | J |
| 465 | 3.8 | 36 | J | 7.0 | 40 | 245 | -2.2 | -5.6 | 3.4 | 1 | J |
| 446 | 3.6 | 31 | J | 6.9 | 31 | 262 | -0.8 | -6.3 | 2.2 | 2 | J |
| 463 | 3.9 | 35 | J | 7.3 | 55 | 234 | -2.4 | -4.5 | 5.0 | 1 | J |
| 469 | 3.4 | 38 | J | 6.9 | 53 | 235 | -2.3 | -4.6 | 4.4 | 1 | J |
| 467 | 3.6 | 44 | J | 6.6 | 45 | 212 | -3.9 | -3.6 | 3.7 | 1 | J |
| 457 | 3.5 | 33 | J | 6.4 | 32 | 245 | -2.3 | -5.8 | 1.6 | 1 | J |
| 462 | 3.8 | 35 | J | 6.4 | 25 | 242 | -2.7 | -5.7 | 0.6 | 1 | J |
| 460 | 3.8 | 34 | J | 6.2 | 14 | 242 | -2.8 | -5.4 | -0.9 | 1 | J |
| 461 | 4.0 | 36 | J | 6.2 | 2 | 237 | -3.3 | -4.6 | -2.2 | 1 | J |
| 457 | 4.0 | 33 | J | 6.1 | 2 | 241 | -3.0 | -4.7 | -2.5 | 1 | J |
| 453 | 3.7 | 29 | J | 6.2 | 5 | 242 | -2.9 | -4.8 | -2.4 | 1 | J |
| 458 | 3.7 | 28 | J | 6.3 | 9 | 236 | -3.4 | -4.8 | -2.0 | 1 | J |
| 433 | 3.2 | 35 | J | 6.2 | 17 | 241 | -2.9 | -5.3 | -1.4 | 0 | J |
| 421 | 3.5 | 35 | J | 6.0 | 19 | 249 | -2.0 | -5.5 | -1.4 | 1 | J |

MAR. 8, 1979 67

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 438 | 3.1 | 31 | J | 5.8 | 32 | 239 | -2.5 | -5.1 | 0.2 | 1 | J |
| 2 | 420 | 2.7 | 40 | L | 5.3 | 33 | 247 | -1.7 | -4.9 | 0.3 | 1 | J |
| 3 | 395 | 3.6 | 35 | C | 5.1 | -4 | 268 | -0.2 | -4.1 | -2.7 | 1 | C |
| 4 | 380 | 3.7 | 30 | C | 5.1 | -8 | 283 | 1.1 | -4.0 | -2.8 | 1 | C |
| 5 | 389 | 3.5 | 35 | C | 5.0 | -10 | 268 | -0.2 | -4.0 | -2.7 | 1 | C |
| 6 | 374 | 3.7 | 33 | C | 5.0 | -8 | 286 | 1.3 | -4.0 | -2.3 | 1 | C |
| 7 | 374 | 4.1 | 32 | C | 4.9 | 14 | 292 | 1.5 | -3.9 | -0.2 | 2 | C |
| 8 | 373 | 4.2 | 26 | J | 4.9 | 10 | 304 | 2.6 | -3.9 | -0.2 | 1 | J |
| 9 | 381 | 4.6 | 29 | J | 5.0 | 3 | 277 | 0.6 | -4.5 | -0.8 | 2 | J |
| 10 | 371 | 4.4 | 36 | C | 5.0 | -6 | 283 | 1.1 | -4.5 | -1.5 | 1 | C |
| 11 | 351 | 4.7 | 45 | C | 4.5 | 18 | 346 | 3.9 | -1.2 | 1.1 | 1 | C |
| 12 | 354 | 5.0 | 96 | J | 4.7 | -1 | 334 | 4.0 | -1.9 | -0.5 | 1 | J |
| 13 | 345 | 4.1 | 34 | J | 4.8 | -16 | 7 | 4.1 | 0.8 | -1.0 | 2 | J |
| 14 | 356 | 4.3 | 55 | J | 4.4 | 21 | 340 | 3.0 | -1.4 | 0.9 | 3 | J |
| 15 | 359 | 4.6 | 64 | J | 4.5 | 26 | 327 | 3.1 | -2.4 | 1.2 | 2 | J |
| 16 | 349 | 4.1 | 67 | J | 4.2 | 0 | 2 | 3.7 | 0.1 | 0.0 | 2 | J |
| 17 | 347 | 4.6 | 73 | J | 4.2 | 2 | 8 | 3.8 | 0.4 | 0.3 | 2 | J |
| 18 | 358 | 5.3 | 56 | J | 4.5 | -39 | 355 | 3.3 | 0.9 | -2.6 | 1 | J |
| 19 | 342 | 4.1 | 32 | J | 4.0 | 0 | 345 | 3.6 | -0.8 | -0.4 | 1 | J |
| 20 | 340 | 4.9 | 35 | J | 4.5 | 11 | 343 | 4.1 | -1.5 | 0.1 | 1 | J |
| 21 | 338 | 4.2 | 23 | J | 4.4 | -2 | 355 | 4.1 | -0.2 | -0.3 | 1 | J |
| 22 | 341 | 4.5 | 45 | J | 4.2 | -27 | 2 | 3.6 | 1.1 | -1.4 | 1 | J |
| 23 | 346 | 5.0 | 53 | J | 4.2 | -35 | 346 | 3.0 | 0.6 | -2.2 | 2 | J |
| 24 | 349 | 5.4 | 75 | J | 4.5 | -39 | 13 | 3.2 | 2.1 | -1.8 | 1 | J |

MAR. 9, 1979 68

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 352 | 5.7 | 73 | J | 5.1 | -48 | 349 | 3.3 | 1.5 | -3.5 | 1 | J |
| 344 | 6.2 | 73 | J | 5.2 | -30 | 336 | 4.0 | -0.2 | -3.1 | 1 | J |
| 352 | 5.3 | 37 | J | 5.0 | -46 | 9 | 2.8 | 1.8 | -2.3 | 2 | J |
| 349 | 5.8 | 47 | J | 5.0 | -52 | 345 | 2.8 | 1.0 | -3.6 | 2 | J |
| 334 | 4.2 | 25 | J | 4.6 | 5 | 358 | 4.5 | -0.3 | 0.3 | 1 | J |
| 333 | 4.4 | 26 | J | 4.8 | -5 | 349 | 4.6 | -0.7 | -0.7 | 1 | J |
| 326 | 5.1 | 31 | J | 5.5 | -10 | 349 | 5.3 | -0.7 | -1.2 | 0 | J |
| 33[illegible] | 5.4 | 34 | J | 5.6 | -22 | 339 | 4.8 | -1.2 | -2.5 | 1 | J |
| 383 | 12.9 | 71 | J | 10.6 | -22 | 314 | 6.6 | -5.7 | -5.3 | 3 | J |
| 398 | 13.5 | 68 | J | 11.0 | -17 | 318 | 7.2 | -5.7 | -4.2 | 4 | J |
| 405 | 14.2 | 73 | J | 11.2 | 7 | 308 | 6.5 | -8.4 | -0.4 | 4 | J |
| 402 | 15.2 | 72 | J | 12.4 | 10 | 311 | 6.7 | -7.9 | 0.2 | 7 | J |
| 393 | 14.1 | 57 | J | 11.0 | 14 | 313 | 7.2 | -8.1 | 0.9 | 2 | J |
| 353 | 13.9 | 96 | J | 7.1 | 1 | 306 | 3.9 | -5.3 | -1.2 | 3 | J |
| 372 | 14.2 | 54 | J | 7.5 | -9 | 309 | 4.2 | -4.7 | -2.5 | 3 | J |
| 377 | 14.5 | 44 | J | 8.9 | -1 | 298 | 3.8 | -6.7 | -2.5 | 4 | J |
| 376 | 17.1 | 38 | J | 9.4 | 28 | 287 | 2.4 | -8.8 | 1.1 | 2 | J |
| 377 | 18.1 | 39 | J | 7.7 | 67 | 251 | -0.6 | -3.4 | 3.2 | 6 | J |
| 377 | 14.8 | 57 | J | 7.9 | -4 | 127 | -4.6 | 5.6 | 2.4 | 2 | J |
| 393 | 16.5 | 74 | J | 6.2 | -57 | 170 | -2.4 | 2.3 | -3.0 | 4 | J |
| 375 | 15.7 | 65 | J | 6.4 | -4 | 193 | -5.4 | -0.9 | -1.0 | 3 | J |
| 390 | 10.7 | 63 | J | 7.5 | 34 | 165 | -5.6 | -0.9 | 4.1 | 3 | J |
| 417 | 5.3 | 75 | J | 9.6 | 18 | 145 | -7.2 | 2.5 | 5.2 | 3 | J |
| 464 | 14.3 | 74 | J | 7.0 | -64 | 7 | 1.0 | 1.2 | -1.6 | 7 | J |

MAR. 10, 1979 69

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 472 | 18.2 | 55 | J | 7.7 | -1 | 326 | 6.1 | -3.3 | -2.4 | 3 | J |
| 2 | 474 | 21.0 | 45 | J | 7.4 | -27 | 320 | 4.6 | -1.6 | -4.6 | 3 | J |
| 3 | 474 | 17.2 | 43 | J | 8.4 | -5 | 319 | 5.9 | -4.1 | -3.1 | 3 | J |
| 4 | 469 | 19.5 | 26 | J | 7.6 | -13 | 330 | 6.2 | -2.5 | -3.1 | 2 | J |
| 5 | 460 | 29.4 | 27 | J | 7.6 | -33 | 330 | 5.4 | -1.2 | -5.0 | 1 | J |
| 6 | 461 | 28.2 | 23 | J | 11.3 | -10 | 321 | 8.3 | -5.6 | -4.2 | 5 | J |
| 7 | 458 | 30.5 | 19 | J | 14.9 | -5 | 316 | 10.7 | -9.4 | -4.4 | 1 | J |
| 8 | 454 | 19.7 | 19 | J | 15.0 | 9 | 322 | 11.4 | -9.2 | -0.2 | 3 | J |
| 9 | 465 | 20.0 | 35 | J | 12.8 | 13 | 327 | 9.8 | -6.8 | 1.1 | 4 | J |
| 10 | 464 | 10.0 | 31 | J | 12.5 | -6 | 318 | 9.2 | -7.9 | -3.0 | 1 | J |
| 11 | 451 | 16.7 | 29 | J | 9.8 | -11 | 311 | 6.1 | -6.5 | -3.2 | 3 | J |
| 12 | 443 | 22.5 | 22 | J | 8.1 | -29 | 183 | -6.4 | 0.4 | -3.5 | 4 | J |
| 13 | 429 | 14.3 | 39 | C | 8.6 | -13 | 165 | -7.6 | 2.3 | -1.3 | 3 | C |
| 14 | 451 | 2.9 | 94 | C | 9.7 | 26 | 140 | -6.5 | 4.3 | 5.5 | 2 | C |
| 15 | 442 | 4.8 | 80 | C | 6.7 | 50 | 140 | -3.0 | 1.1 | 5.3 | 3 | C |
| 16 | 452 | 6.5 | 61 | J | 6.3 | 39 | 134 | -3.1 | 1.8 | 4.4 | 3 | J |
| 17 | 420 | 12.2 | 39 | J | 6.0 | 3 | 225 | -3.7 | -3.6 | -1.2 | 2 | J |
| 18 | 453 | 32.6 | 33 | J | 9.4 | -17 | 262 | -1.2 | -6.3 | -5.7 | 4 | J |
| 19 | 452 | 19.2 | 45 | J | 13.1 | 9 | 269 | -0.2 | -10.0 | -3.5 | 8 | J |
| 20 | 466 | 9.3 | 85 | C | 13.2 | -77 | 166 | -2.8 | 7.0 | -10.5 | 2 | C |
| 21 | 462 | 8.3 | 68 | C | 14.9 | -67 | 203 | -5.1 | 5.3 | -12.3 | 4 | C |
| 22 | 453 | 8.2 | 64 | C | 16.0 | -49 | 220 | -7.9 | 1.1 | -13.5 | 3 | C |
| 23 | 441 | 11.2 | 70 | C | 15.6 | -46 | 237 | -5.7 | -1.2 | -14.1 | 3 | C |
| 24 | 446 | 10.6 | 65 | C | 16.3 | -74 | 156 | -2.6 | 6.5 | -7.4 | 13 | C |

MAR. 11, 1979 70

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 440 | 3.0 | 76 | C | 15.2 | -34 | 90 | -0.1 | 15.1 | -0.2 | 2 | C |
| 455 | 2.1 | 93 | C | 13.3 | -21 | 82 | 1.7 | 12.9 | 2.5 | 1 | C |
| 413 | 3.0 | 78 | C | 12.0 | -21 | 94 | -0.8 | 11.5 | 1.8 | 2 | C |
| 411 | 2.8 | 85 | C | 11.7 | -25 | 102 | -2.2 | 11.5 | 0.4 | 1 | C |
| 465 | 3.5 | 180 | C | 8.7 | -23 | 206 | -6.3 | -1.6 | -4.0 | 4 | C |
| 478 | 4.0 | 180 | C | 7.5 | -7 | 203 | -6.6 | -2.2 | -1.9 | 2 | C |
| 466 | 3.9 | 138 | C | 6.4 | 25 | 233 | -2.5 | -3.8 | 0.8 | 4 | C |
| 480 | 3.7 | 134 | C | 5.8 | 19 | 203 | -3.8 | -1.9 | 0.9 | 4 | C |
| 471 | 3.5 | 111 | C | 5.7 | 16 | 192 | -5.0 | -1.3 | 1.2 | 2 | C |
| 477 | 3.3 | 119 | C | 6.5 | 11 | 182 | -6.1 | -0.4 | 1.1 | 2 | C |
| 472 | 3.1 | 110 | C | 6.2 | -3 | 162 | -5.7 | 1.9 | 0.1 | 2 | C |
| 477 | 3.0 | 121 | C | 5.9 | -11 | 147 | -4.7 | 3.2 | -0.4 | 1 | C |
| 465 | 2.7 | 101 | C | 6.0 | -12 | 155 | -5.2 | 2.6 | -0.7 | 1 | C |
| 451 | 2.7 | 102 | C | 5.6 | -1 | 168 | -5.4 | 1.1 | 0.2 | 1 | C |
| 459 | 2.6 | 97 | C | 5.4 | 2 | 169 | -5.3 | 0.9 | 0.5 | 1 | C |
| 462 | 2.6 | 97 | C | 5.2 | -9 | 173 | -5.0 | 0.9 | -0.5 | 1 | C |
| 452 | 2.9 | 88 | C | 5.2 | -19 | 165 | -4.7 | 1.8 | -1.1 | 1 | C |
| 456 | 2.9 | 77 | C | 5.3 | -6 | 164 | -5.0 | 1.6 | 0.1 | 1 | C |
| 453 | 3.0 | 70 | C | 5.3 | 5 | 167 | -5.1 | 0.8 | 1.0 | 0 | C |
| 451 | 3.0 | 67 | C | 5.2 | 8 | 168 | -5.0 | 0.6 | 1.1 | 0 | C |
| 448 | 3.0 | 69 | C | 5.2 | 7 | 164 | -4.9 | 0.9 | 1.3 | 1 | C |
| 445 | 3.1 | 62 | C | 5.3 | 6 | 167 | -5.1 | 0.7 | 1.1 | 0 | C |
| 443 | 3.0 | 59 | C | 5.3 | 4 | 175 | -5.2 | 0.2 | 0.6 | 0 | C |
| 438 | 3.0 | 63 | C | 5.4 | 4 | 178 | -5.4 | -0.1 | 0.5 | 0 | C |

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MAR. 12, 1979 71

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 435 | 2.9 | 60 | C | 5.5 | 2 | 181 | -5.5 | -0.1 | 0.1 | 0 | C |
| 2 | 420 | 3.2 | 71 | C | 5.2 | -8 | 177 | -5.1 | 0.6 | -0.5 | 1 | C |
| 3 | 419 | 3.2 | 60 | C | 5.2 | 9 | 176 | -5.0 | -0.1 | 0.8 | 1 | C |
| 4 | 420 | 3.2 | 56 | C | 5.3 | 10 | 181 | -5.1 | -0.4 | 0.7 | 1 | C |
| 5 | 420 | 2.9 | 51 | C | 5.3 | -12 | 175 | -5.2 | 0.9 | -0.8 | 0 | C |
| 6 | 421 | 3.1 | 58 | C | 5.3 | -11 | 173 | -5.1 | 0.9 | -0.7 | 0 | C |
| 7 | 419 | 3.2 | 58 | C | 5.4 | -8 | 168 | -5.2 | 1.3 | -0.4 | 1 | C |
| 8 | 412 | 3.4 | 61 | C | 5.2 | -2 | 169 | -5.0 | 1.0 | 0.1 | 1 | C |
| 9 | 408 | 3.4 | 55 | C | 5.2 | -10 | 174 | -5.1 | 0.7 | -0.7 | 0 | C |
| 10 | 418 | 2.9 | 48 | C | 5.6 | -12 | 167 | -5.2 | 1.4 | -0.8 | 1 | C |
| 11 | 418 | 2.7 | 41 | C | 6.1 | -11 | 165 | -5.7 | 1.7 | -0.8 | 0 | C |
| 12 | 425 | 2.8 | 67 | C | 6.1 | -11 | 161 | -5.6 | 2.1 | -0.8 | 1 | C |
| 13 | 409 | 3.2 | 56 | C | 5.7 | 1 | 127 | -3.2 | 4.2 | 1.0 | 2 | C |
| 14 | 402 | 3.5 | 48 | C | 5.8 | 1 | 116 | -2.5 | 4.9 | 1.4 | 1 | C |
| 15 | 402 | 3.9 | 43 | C | 5.7 | -3 | 101 | -1.0 | 5.3 | 1.3 | 1 | C |
| 16 | 377 | 4.6 | 43 | C | 5.8 | -2 | 136 | -3.9 | 3.6 | 1.0 | 2 | C |
| 17 | 384 | 4.3 | 37 | C | 6.0 | -12 | 141 | -3.4 | 2.8 | 0.2 | 4 | C |
| 18 | 363 | 4.7 | 36 | C | 6.0 | -12 | 167 | -5.5 | 1.7 | -0.6 | 1 | C |
| 19 | 381 | 4.6 | 39 | C | 6.1 | -34 | 156 | -4.1 | 3.0 | -1.8 | 2 | C |
| 20 | 389 | 4.8 | 33 | C | 6.1 | -4 | 139 | -2.7 | 2.1 | 1.0 | 5 | C |
| 21 | 392 | 4.9 | 32 | C | 6.4 | 10 | 104 | -1.5 | 4.4 | 4.1 | 2 | C |
| 22 | 390 | 5.1 | 33 | C | 6.4 | 4 | 98 | -0.8 | 5.0 | 3.9 | 1 | C |
| 23 | 376 | 5.4 | 36 | C | 6.3 | 3 | 115 | -2.5 | 4.3 | 3.4 | 1 | C |
| 24 | 384 | 5.0 | 32 | C | 6.4 | 7 | 97 | -0.8 | 4.6 | 4.1 | 1 | C |

MAR. 13, 1979 72

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 387 | 4.9 | 35 | C | 6.8 | 7 | 87 | 0.3 | 4.8 | 4.2 | 2 | C |
| 2 | 394 | 5.7 | 39 | C | 7.2 | 25 | 95 | -0.5 | 3.7 | 5.8 | 1 | C |
| 3 | 381 | 6.2 | 49 | C | 6.9 | -32 | 167 | -3.7 | 1.9 | -1.7 | 5 | C |
| 4 | 379 | 6.8 | 54 | C | 7.2 | -46 | 158 | -4.1 | 3.5 | -3.2 | 3 | C |
| 5 | 386 | 6.3 | 80 | C | 6.9 | -20 | 139 | -3.4 | 3.4 | -0.3 | 4 | C |
| 6 | 369 | 6.6 | 53 | C | 7.4 | -19 | 140 | -4.4 | 4.2 | -0.5 | 4 | C |
| 7 | 366 | 6.5 | 50 | C | 7.2 | -1 | 129 | -3.8 | 4.6 | 1.4 | 3 | C |
| 8 | 368 | 6.5 | 50 | C | 6.7 | -20 | 150 | -4.0 | 2.6 | -1.0 | 4 | C |
| 9 | 371 | 6.4 | 52 | C | 6.8 | 20 | 128 | -3.5 | 3.8 | 3.1 | 2 | C |
| 10 | 364 | 6.5 | 47 | C | 6.6 | -6 | 121 | -3.3 | 5.3 | 0.5 | 2 | C |
| 11 | 370 | 6.1 | 40 | C | 6.7 | 14 | 111 | -2.1 | 5.1 | 2.6 | 2 | C |
| 12 | 352 | 6.6 | 40 | C | 6.7 | 3 | 130 | -4.0 | 4.5 | 1.3 | 2 | C |
| 13 | 362 | 6.2 | 36 | C | 6.6 | -10 | 111 | -2.2 | 5.8 | 0.2 | 2 | C |
| 14 | 344 | 6.4 | 36 | C | 6.8 | 9 | 129 | -4.0 | 4.6 | 2.2 | 1 | C |
| 15 | 347 | 6.6 | 32 | C | 6.3 | -18 | 125 | -2.8 | 4.2 | -0.4 | 3 | C |
| 16 | 338 | 7.3 | 29 | C | 6.6 | -21 | 138 | -4.1 | 4.1 | -0.7 | 3 | C |
| 17 | 330 | 7.1 | 31 | C | 6.6 | 16 | 132 | -3.9 | 3.3 | 3.2 | 3 | C |
| 18 | 334 | 6.9 | 27 | C | 6.5 | 20 | 129 | -3.7 | 3.2 | 3.9 | 1 | C |
| 19 | 329 | 7.1 | 26 | C | 6.3 | 8 | 130 | -3.8 | 3.6 | 2.9 | 2 | C |
| 20 | 329 | 7.0 | 26 | C | 6.3 | -15 | 119 | -2.9 | 5.2 | 1.2 | 1 | C |
| 21 | 336 | 6.9 | 25 | C | 6.4 | -15 | 110 | -1.9 | 5.4 | 1.7 | 2 | C |
| 22 | 322 | 7.5 | 24 | C | 6.4 | 12 | 124 | -3.3 | 3.3 | 3.7 | 2 | C |
| 23 | 330 | 7.7 | 24 | C | 6.5 | -28 | 117 | -2.4 | 5.4 | 0.3 | 2 | C |
| 24 | 319 | 7.9 | 22 | C | 6.5 | 9 | 135 | -3.8 | 2.6 | 2.9 | 3 | C |

MAR. 14, 1979 73

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 321 | 7.9 | 21 | C | 6.6 | 6 | 122 | -3.3 | 4.1 | 3.5 | 1 | C |
| 2 | 302 | 12.7 | 11 | C |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 299 | 12.3 | 15 | C | 6.3 | 23 | 132 | -3.9 | 3.5 | 3.5 | 0 | C |
| 9 | 297 | 12.4 | 16 | C | 6.3 | 2 | 135 | -4.3 | 4.2 | 1.3 | 1 | C |
| 10 | 295 | 12.7 | 17 | C | 6.3 | -3 | 134 | -4.3 | 4.4 | 0.6 | 0 | C |
| 11 | 295 | 13.8 | 14 | C | 5.9 | -5 | 138 | -4.3 | 4.0 | 0.3 | 1 | C |
| 12 | 292 | 15.5 | 12 | C | 5.7 | 17 | 143 | -4.3 | 2.8 | 2.3 | 1 | C |
| 13 | 292 | 14.7 | 11 | C | 6.0 | 26 | 136 | -3.8 | 3.0 | 3.3 | 1 | C |
| 14 | 289 | 14.9 | 12 | C | 5.9 | 35 | 152 | -4.1 | 1.3 | 3.7 | 1 | C |
| 15 | 290 | 15.0 | 11 | C | 5.7 | 41 | 151 | -3.7 | 0.9 | 4.1 | 1 | C |
| 16 | 288 | 15.8 | 11 | C | 5.5 | 35 | 140 | -3.3 | 1.6 | 3.8 | 1 | C |
| 17 | 284 | 15.8 | 11 | C | 5.4 | 39 | 152 | -3.7 | 0.5 | 3.9 | 0 | C |
| 18 | 280 | 15.3 | 11 | C | 5.3 | 36 | 159 | -4.0 | 0.0 | 3.5 | 1 | C |
| 19 | 279 | 15.4 | 15 | C | 4.7 | -12 | 153 | -3.9 | 2.2 | 0.1 | 1 | C |
| 20 | 281 | 15.8 | 17 | C | 4.4 | -23 | 146 | -3.3 | 2.8 | -0.3 | 1 | C |
| 21 | 283 | 15.8 | 18 | C | 4.2 | -22 | 142 | -2.9 | 2.7 | -0.0 | 1 | C |
| 22 | 282 | 15.2 | 18 | C | 4.3 | -33 | 154 | -3.2 | 2.6 | -1.0 | 0 | C |
| 23 | 281 | 15.7 | 18 | C | 4.3 | -10 | 154 | -3.1 | 1.6 | 0.4 | 2 | C |
| 24 | 291 | 16.5 | 17 | C | 4.2 | -24 | 127 | -1.5 | 2.3 | 0.2 | 3 | C |

MAR. 15, 1979 74

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 284 | 16.1 | 21 | C | 4.8 | -26 | 180 | -3.6 | 1.0 | -1.5 | 2 | C |
| 2 | 282 | 15.5 | 22 | C | 5.7 | -19 | 181 | -5.1 | 0.9 | -1.5 | 1 | C |
| 3 | 280 | 15.7 | 23 | C | 5.8 | 6 | 146 | -4.5 | 2.3 | 2.0 | 2 | C |
| 4 | 288 | 16.3 | 27 | C | 5.5 | 36 | 144 | -2.5 | 0.6 | 2.8 | 4 | C |
| 5 | 299 | 17.3 | 23 | C | 5.3 | 39 | 289 | 1.3 | -4.7 | 1.4 | 1 | C |
| 6 | 302 | 18.8 | 25 | C | 5.4 | 42 | 290 | 1.2 | -4.3 | 1.8 | 2 | C |
| 7 | 323 | 28.3 | 50 | C | 8.3 | 30 | 124 | -3.3 | 3.6 | 4.8 | 4 | C |
| 8 | 324 | 34.7 | 44 | C | 6.3 | 66 | 227 | -1.2 | -2.3 | 3.5 | 4 | C |
| 9 | 324 | 39.3 | 39 | C | 6.6 | 41 | 225 | -1.9 | -2.5 | 1.9 | 5 | C |
| 10 | 326 | 41.4 | 32 | C | 9.5 | 37 | 114 | -2.7 | 4.9 | 6.2 | 4 | C |
| 11 | 320 | 35.8 | 29 | C | 12.0 | 42 | 149 | -7.0 | 2.6 | 8.1 | 4 | C |
| 12 | 318 | 38.2 | 27 | C | 12.8 | 20 | 138 | -8.7 | 6.9 | 5.8 | 2 | C |
| 13 | 317 | 45.1 | 27 | C | 11.6 | -3 | 127 | -6.7 | 8.7 | 1.4 | 3 | C |
| 14 | 309 | 39.1 | 24 | C | 12.3 | 20 | 131 | -7.3 | 7.1 | 6.1 | 3 | C |
| 15 | 308 | 38.6 | 20 | C | 11.9 | 42 | 249 | -2.8 | -9.1 | 4.6 | 6 | C |
| 16 | 306 | 28.1 | 21 | C | 13.5 | 23 | 281 | 2.4 | -13.0 | 1.0 | 3 | C |
| 17 | 312 | 17.7 | 57 | C | 12.5 | 19 | 161 | -4.1 | 0.7 | 1.9 | 11 | C |
| 18 | 320 | 15.5 | 87 | C | 9.3 | -31 | 144 | -4.2 | 4.1 | -1.5 | 7 | C |
| 19 | 316 | 20.4 | 46 | C | 13.4 | -36 | 116 | -4.6 | 11.7 | -2.3 | 4 | C |
| 20 | 322 | 13.6 | 32 | C | 15.7 | -34 | 91 | -0.2 | 15.4 | -0.9 | 3 | C |
| 21 | 330 | 16.3 | 32 | C | 15.3 | -30 | 86 | 0.8 | 14.7 | 0.7 | 4 | C |
| 22 | 331 | 15.8 | 56 | C | 14.1 | -23 | 94 | -0.8 | 13.1 | 2.7 | 4 | C |
| 23 | 348 | 18.3 | 32 | C | 15.0 | -34 | 64 | 5.3 | 13.5 | -0.6 | 3 | C |
| 24 | 337 | 18.2 | 52 | C | 14.3 | -48 | 64 | 3.8 | 11.7 | -3.5 | 6 | C |

MAR. 16, 1979 75

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 8.8 | 188 | C | 11.9 | 28 | 154 | -7.3 | 0.5 | 5.6 | 8 | C |
| 2 | 356 | 7.2 | 165 | C | 11.8 | -11 | 87 | 0.6 | 9.3 | 3.6 | 5 | C |
| 3 | 369 | 6.2 | 182 | C | 11.7 | -43 | 45 | 4.4 | 6.7 | -2.9 | 8 | C |
| 4 | 357 | 7.5 | 206 | C | 9.4 | -15 | 95 | -0.8 | 8.5 | 1.8 | 3 | C |
| 5 | 335 | 11.8 | 141 | C | 6.0 | -10 | 90 | 0.0 | 3.0 | 0.8 | 6 | C |
| 6 | 330 | 16.2 | 99 | C | 7.5 | -2 | 323 | 5.6 | -3.8 | -1.8 | 3 | C |
| 7 | 344 | 16.2 | 111 | C | 6.5 | -51 | 355 | 2.2 | 0.7 | -2.7 | 5 | C |
| 8 | 369 | 13.6 | 148 | C | 7.3 | 23 | 215 | -2.0 | -1.7 | 0.6 | 7 | C |
| 9 | 437 | 7.2 | 209 | C | 10.5 | 19 | 146 | -7.7 | 4.3 | 4.3 | 3 | C |
| 10 | 436 | 7.6 | 185 | C | 11.3 | 10 | 134 | -7.4 | 7.2 | 3.5 | 2 | C |
| 11 | 413 | 6.9 | 179 | C | 13.0 | 11 | 135 | -8.3 | 7.7 | 4.0 | 4 | C |
| 12 | 404 | 6.7 | 174 | C | 13.6 | 33 | 139 | -8.3 | 5.5 | 8.5 | 2 | C |
| 13 | 429 | 7.6 | 228 | C | 12.3 | -4 | 134 | -7.2 | 7.6 | 1.0 | 5 | C |
| 14 | 411 | 8.0 | 204 | C | 12.2 | 2 | 129 | -6.4 | 7.5 | 2.3 | 6 | C |
| 15 | 416 | 8.4 | 202 | C | 12.8 | -7 | 121 | -6.0 | 9.8 | 1.5 | 4 | C |
| 16 | 424 | 8.7 | 180 | C | 13.1 | 3 | 114 | -4.7 | 9.6 | 4.1 | 6 | C |
| 17 | 416 | 7.8 | 165 | C | 14.4 | 18 | 110 | -4.6 | 9.6 | 8.5 | 4 | C |
| 18 | 420 | 7.2 | 161 | C | 14.5 | 19 | 109 | -4.5 | 9.5 | 9.6 | 2 | C |
| 19 | 416 | 7.2 | 139 | C | 14.9 | 8 | 119 | -6.8 | 9.9 | 7.5 | 4 | C |
| 20 | 409 | 5.8 | 124 | C | 15.5 | -18 | 110 | -4.8 | 13.8 | 2.9 | 2 | C |
| 21 | 384 | 4.9 | 111 | C | 16.0 | 5 | 124 | -8.9 | 10.3 | 8.3 | 2 | C |
| 22 | 386 | 6.1 | 91 | C | 15.6 | -23 | 122 | -7.5 | 13.3 | 1.7 | 2 | C |
| 23 | 392 | 8.0 | 98 | C | 14.6 | 11 | 129 | -8.2 | 7.0 | 7.9 | 5 | C |
| 24 | 403 | 7.3 | 104 | C | 14.8 | -13 | 123 | -5.9 | 8.7 | 3.1 | 10 | C |

MAR. 17, 1979 76

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 423 | 8.7 | 285 | L | 13.1 | -21 | 106 | -3.1 | 11.0 | 2.3 | 5 | C |
| 2 | 431 | 8.9 | 236 | L | 13.1 | -5 | 107 | -3.3 | 9.8 | 5.0 | 5 | J |
| 3 | 473 | 10.8 | 299 | L | 14.7 | 13 | 112 | -4.5 | 8.3 | 8.0 | 8 | J |
| 4 | 512 | 13.0 | 385 | L | 16.2 | 16 | 97 | -1.6 | 9.6 | 9.1 | 9 | J |
| 5 | 544 | 12.0 | 325 | L | 13.2 | 3 | 116 | -3.8 | 6.9 | 3.6 | 10 | J |
| 6 | 563 | 10.2 | 354 | L | 12.4 | -20 | 108 | -3.1 | 10.2 | 0.1 | 6 | J |
| 7 | 569 | 8.8 | 322 | L | 12.5 | -38 | 108 | -2.6 | 9.8 | -3.8 | 6 | J |
| 8 | 605 | 24.4 | 178 | L | 11.3 | -63 | 321 | 1.1 | -0.1 | -2.8 | 11 | J |
| 9 | 590 | 46.4 | 63 | L | 7.9 | -1 | 280 | 1.2 | -6.4 | -1.7 | 4 | J |
| 10 | 604 | 23.8 | 96 | L | 8.7 | -16 | 318 | 5.6 | -4.5 | -3.2 | 3 | J |
| 11 | 622 | 7.1 | 117 | L | 10.1 | -7 | 336 | 8.8 | -3.6 | -2.0 | 2 | J |
| 12 | 622 | 10.3 | 146 | L | 8.2 | 8 | 332 | 6.9 | -3.8 | 0.3 | 2 | J |
| 13 | 631 | 6.4 | 119 | J | 8.6 | 27 | 321 | 5.7 | -5.4 | 2.6 | 2 | J |
| 14 | 627 | 5.0 | 180 | J | 6.5 | 34 | 328 | 4.4 | -3.5 | 2.7 | 2 | J |
| 15 | 630 | 4.2 | 120 | J | 6.9 | 26 | 322 | 4.8 | -4.5 | 1.8 | 1 | J |
| 16 | 564 | 6.0 | 97 | J | 5.8 | 76 | 150 | -1.2 | -1.2 | 5.4 | 1 | J |
| 17 | 568 | 4.6 | 99 | J | 6.1 | 83 | 17 | 0.7 | -1.9 | 5.2 | 2 | J |
| 18 | 554 | 3.5 | 98 | J | 6.8 | 75 | 151 | -1.4 | -1.9 | 5.7 | 3 | J |
| 19 | 526 | 2.5 | 177 | J | 7.8 | 22 | 111 | -2.4 | 4.1 | 5.3 | 3 | J |
| 20 | 535 | 2.3 | 138 | J | 8.6 | 23 | 109 | -2.4 | 4.4 | 6.3 | 2 | J |
| 21 | 520 | 2.2 | 81 | J | 7.8 | 24 | 139 | -5.2 | 2.1 | 5.0 | 1 | J |
| 22 | 508 | 2.0 | 80 | C | 7.5 | 22 | 137 | -5.0 | 2.3 | 4.9 | 1 | C |
| 23 | 503 | 2.9 | 89 | C | 6.7 | -34 | 141 | -3.0 | 3.5 | -0.7 | 5 | C |
| 24 | 509 | 2.9 | 73 | C | 6.7 | 22 | 109 | -1.7 | 2.8 | 4.5 | 3 | C |

MAR. 18, 1979 77

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 497 | 2.9 | 59 | J | 6.3 | 11 | 116 | -2.4 | 3.5 | 3.6 | 3 | J |
| 2 | 497 | 3.1 | 70 | J | 5.9 | 21 | 128 | -2.6 | 2.0 | 3.2 | 4 | J |
| 3 | 499 | 3.1 | 78 | J | 5.9 | 29 | 133 | -3.1 | 1.6 | 3.8 | 3 | J |
| 4 | 497 | 3.4 | 83 | J | 6.0 | 33 | 140 | -2.7 | 1.0 | 3.1 | 4 | J |
| 5 | 495 | 3.4 | 83 | J | 5.5 | 1 | 190 | -3.6 | -0.6 | -0.2 | 4 | J |
| 6 | 511 | 2.8 | 71 | J | 5.8 | 20 | 106 | -1.3 | 3.7 | 3.4 | 3 | J |
| 7 | 508 | 3.2 | 57 | J | 5.8 | 31 | 106 | -1.3 | 3.5 | 4.3 | 1 | J |
| 8 | 474 | 3.1 | 73 | C | 6.0 | 9 | 137 | -4.2 | 3.5 | 2.0 | 1 | C |
| 9 | 486 | 3.0 | 78 | C | 5.8 | -13 | 130 | -3.0 | 3.8 | -0.2 | 3 | C |
| 10 | 485 | 3.4 | 96 | J | 4.7 | -30 | 186 | -3.1 | 0.1 | -1.8 | 3 | J |
| 11 | 506 | 3.8 | 102 | J | 5.1 | 12 | 117 | -1.7 | 3.2 | 1.5 | 3 | J |
| 12 | 498 | 3.6 | 102 | J | 4.8 | 28 | 150 | -2.8 | 1.2 | 2.0 | 3 | J |
| 13 | 503 | 3.4 | 96 | J | 5.0 | 2 | 118 | -2.0 | 3.7 | 1.0 | 3 | J |
| 14 | 503 | 3.1 | 97 | J | 4.9 | -15 | 127 | -2.3 | 3.2 | -0.2 | 3 | J |
| 15 | 525 | 3.2 | 76 | J | 5.1 | -8 | 100 | -0.8 | 4.5 | 0.7 | 2 | J |
| 16 | 500 | 2.8 | 85 | C | 5.1 | -17 | 105 | -1.0 | 4.0 | 0.2 | 3 | C |
| 17 | 495 | 3.2 | 117 | J | 5.1 | -1 | 134 | -3.3 | 3.2 | 1.2 | 2 | J |
| 18 | 481 | 3.1 | 89 | J | 5.1 | -1 | 132 | -3.2 | 3.3 | 1.5 | 2 | J |
| 19 | 473 | 3.0 | 67 | J | 5.0 | 16 | 128 | -2.8 | 2.5 | 2.8 | 1 | J |
| 20 | 502 | 3.0 | 71 | J | 4.8 | -14 | 102 | -0.9 | 4.1 | 1.2 | 2 | J |
| 21 | 478 | 2.8 | 77 | J | 5.0 | 7 | 116 | -2.1 | 3.3 | 2.9 | 1 | J |
| 22 | 485 | 3.0 | 68 | J | 4.4 | -3 | 1 9 | -1.4 | 3.4 | 2.0 | 1 | J |
| 23 | 479 | 2.7 | 43 | J | 4.6 | 4 | 101 | -0.8 | 3.3 | 2.7 | 1 | J |
| 24 | 447 | 2.4 | 53 | C | 4.6 | 1 | 116 | -2.0 | 3.3 | 2.4 | 1 | C |

MAR. 19, 1979 78

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 443 | 2.4 | 43 | C | 4.7 | 4 | 120 | -2.3 | 3.2 | 2.5 | 1 | C |
| 2 | 441 | 2.3 | 39 | C | 4.8 | 6 | 118 | -2.2 | 3.3 | 2.6 | 0 | C |
| 3 | 429 | 2.4 | 41 | C | 4.8 | 8 | 129 | -3.0 | 2.8 | 2.4 | 1 | C |
| 4 | 430 | 2.4 | 40 | C | 5.0 | 0 | 125 | -2.8 | 3.6 | 1.9 | 1 | C |
| 5 |  |  |  |  | 4.8 | 0 | 133 | -3.3 | 3.2 | 1.4 | 0 | C |
| 6 | 414 | 3.4 | 29 | C | 4.7 | -30 | 162 | -3.9 | 2.0 | -1.7 | 1 | C |
| 7 | 411 | 4.0 | 24 | J | 4.6 | -14 | 187 | -4.2 | -0.2 | -1.2 | 1 | J |
| 8 | 433 | 3.9 | 32 | J | 4.8 | -51 | 194 | -2.9 | 0.3 | -3.7 | 1 | J |
| 9 | 441 | 4.8 | 27 | J | 5.0 | -63 | 189 | -2.1 | 0.7 | -4.1 | 2 | J |
| 10 | 439 | 5.0 | 25 | J | 5.0 | -66 | 199 | -1.8 | 0.3 | -4.4 | 1 | J |
| 11 | 428 | 4.9 | 35 | J | 5.8 | -38 | 168 | -3.7 | 1.4 | -2.7 | 3 | J |
| 12 | 421 | 5.3 | 31 | J | 6.2 | -31 | 175 | -4.8 | 1.0 | -2.7 | 3 | J |
| 13 | 432 | 5.8 | 38 | J | 6.2 | -26 | 157 | -4.1 | 2.2 | -1.7 | 4 | J |
| 14 | 424 | 5.8 | 36 | J | 6.5 | -13 | 144 | -4.3 | 3.4 | -0.4 | 3 | J |
| 15 | 425 | 5.8 | 31 | J | 6.7 | -20 | 157 | -4.3 | 2.3 | -1.1 | 4 | J |
| 16 | 422 | 6.1 | 34 | J | 6.6 | -33 | 198 | -4.1 | -0.3 | -3.1 | 4 | J |
| 17 | 412 | 6.7 | 41 | J | 6.3 | 1 | 165 | -5.1 | 1.2 | 0.6 | 3 | J |
| 18 | 425 | 6.4 | 38 | J | 6.1 | -44 | 154 | -3.6 | 3.3 | -2.7 | 2 | J |
| 19 | 412 | 6.9 | 47 | C | 5.8 | 40 | 128 | -2.6 | 1.3 | 4.6 | 2 | C |
| 20 | 413 | 6.9 | 52 | C | 5.4 | 42 | 127 | -2.3 | 0.8 | 4.4 | 1 | C |
| 21 | 420 | 8.2 | 69 | J | 3.9 | 17 | 131 | -1.9 | 1.3 | 1.9 | 3 | J |
| 22 | 452 | 6.7 | 126 | J | 5.1 | 21 | 3 | 4.6 | -0.8 | 1.6 | 1 | J |
| 23 | 451 | 7.7 | 83 | J | 4.8 | 26 | 29 | 3.6 | 0.5 | 2.8 | 1 | J |
| 24 | 424 | 8.3 | 47 | J | 5.2 | 86 | 227 | -0.2 | -2.3 | 2.9 | 4 | J |

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OF POOR QUALITY

MAR. 20, 1979 79

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 6.6 | 38 | J | 4.7 | 19 | 236 | -2.2 | -3.4 | -0.7 | 2 | J |
| 2 | 390 | 7.3 | 44 | C | 6.0 | -3 | 123 | -3.0 | 4.0 | 2.2 | 2 | C |
| 3 | 377 | 7.9 | 48 | C | 5.9 | 7 | 175 | -5.2 | 0.1 | 0.8 | 3 | C |
| 4 | 395 | 7.0 | 37 | C | 5.8 | 62 | 122 | -1.1 | -0.2 | 4.2 | 3 | C |
| 5 | 379 | 6.9 | 41 | C | 5.5 | 32 | 144 | -2.7 | 0.9 | 2.7 | 3 | C |
| 6 | 370 | 6.7 | 41 | C | 5.2 | 1 | 135 | -3.1 | 2.9 | 1.2 | 2 | C |
| 7 | 369 | 7.3 | 39 | J | 5.1 | 14 | 199 | -4.3 | -1.8 | 0.6 | 2 | J |
| 8 | 372 | 7.4 | 37 | J | 5.4 | -6 | 185 | -4.1 | -0.2 | -0.5 | 3 | J |
| 9 | 367 | 7.1 | 42 | J | 5.4 | -27 | 160 | -4.4 | 2.1 | -1.9 | 1 | J |
| 10 | 365 | 7.1 | 43 | J | 5.4 | -34 | 165 | -4.2 | 1.8 | -2.6 | 1 | J |
| 11 | 353 | 7.4 | 37 | C | 5.2 | 2 | 160 | -4.4 | 1.5 | 0.5 | 2 | C |
| 12 | 359 | 7.1 | 37 | C | 5.3 | -3 | 126 | -3.1 | 4.2 | 0.7 | 1 | C |
| 13 | 358 | 7.5 | 38 | C | 5.2 | 29 | 178 | -3.2 | -0.3 | 1.8 | 3 | C |
| 14 | 371 | 7.9 | 33 | J | 5.2 | 59 | 193 | -2.5 | -1.6 | 3.9 | 2 | J |
| 15 | 370 | 7.8 | 45 | J | 4.6 | 37 | 169 | -2.6 | -0.1 | 2.0 | 3 | J |
| 16 | 365 | 7.9 | 52 | J | 4.3 | 10 | 220 | -2.9 | -2.5 | -0.2 | 2 | J |
| 17 | 358 | 8.0 | 42 | C | 4.6 | 37 | 220 | -1.8 | -2.0 | 1.1 | 3 | C |
| 18 | 364 | 7.5 | 42 | J | 4.5 | 2 | 241 | -2.1 | -3.5 | -1.5 | 1 | J |
| 19 | 355 | 7.2 | 48 | J | 4.7 | 20 | 229 | -2.7 | -3.4 | -0.2 | 2 | J |
| 20 | 349 | 6.9 | 57 | J | 4.4 | -9 | 186 | -3.4 | -0.0 | -0.7 | 3 | J |
| 21 | 360 | 6.9 | 50 | J | 4.8 | -21 | 125 | -2.1 | 3.3 | 0.4 | 3 | J |
| 22 | 366 | 6.8 | 39 | J | 5.0 | -15 | 104 | -1.1 | 4.2 | 1.4 | 2 | J |
| 23 | 371 | 6.8 | 35 | J | 5.2 | -11 | 93 | -0.2 | 4.4 | 1.9 | 2 | J |
| 24 | 366 | 7.6 | 37 | J | 5.1 | 19 | 97 | -0.5 | 2.3 | 3.2 | 3 | J |

MAR. 21, 1979 80

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 343 | 8.6 | 41 | C | 5.5 | 39 | 165 | -3.8 | -1.0 | 3.3 | 2 | C |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 360 | 6.7 | 49 | J | 5.4 | 8 | 104 | -1.2 | 4.5 | 2.3 | 2 | J |
| 8 | 360 | 7.2 | 52 | J | 5.5 | -15 | 107 | -1.1 | 3.7 | 0.0 | 4 | J |
| 9 | 352 | 7.3 | 57 | J | 5.0 | 24 | 137 | -2.4 | 1.8 | 2.0 | 3 | J |
| 10 | 350 | 7.8 | 50 | J | 5.1 | 34 | 139 | -2.6 | 1.7 | 2.8 | 3 | J |
| 11 | 340 | 7.3 | 28 | J | 5.2 | -2 | 122 | -2.5 | 4.0 | 0.7 | 2 | J |
| 12 | 338 | 7.2 | 28 | J | 5.1 | 18 | 122 | -2.3 | 3.3 | 2.2 | 2 | J |
| 13 | 345 | 7.0 | 27 | J | 5.2 | -5 | 103 | -1.0 | 4.3 | 0.6 | 3 | J |
| 14 | 342 | 7.8 | 24 | J | 5.6 | 0 | 105 | -1.4 | 5.0 | 1.3 | 2 | J |
| 15 | 358 | 11.2 | 47 | J | 8.4 | 29 | 142 | -5.4 | 3.0 | 4.9 | 3 | J |
| 16 | 364 | 10.4 | 44 | J | 8.8 | 13 | 118 | -3.8 | 6.0 | 4.1 | 3 | J |
| 17 | 374 | 9.0 | 39 | J | 8.3 | -24 | 90 | 0.0 | 7.7 | -0.2 | 3 | J |
| 18 | 379 | 8.5 | 39 | J | 7.7 | -41 | 74 | 1.2 | 5.5 | -1.6 | 5 | J |
| 19 | 393 | 7.2 | 36 | J | 7.6 | -34 | 77 | 1.3 | 7.0 | -0.8 | 3 | J |
| 20 | 392 | 7.2 | 31 | J | 7.1 | -2 | 99 | -1.1 | 5.9 | 3.3 | 2 | J |
| 21 | 403 | 6.5 | 35 | J | 6.8 | -12 | 117 | -2.9 | 5.6 | 2.0 | 2 | J |
| 22 | 393 | 5.6 | 39 | J | 6.8 | 0 | 121 | -3.5 | 4.8 | 3.3 | 1 | J |
| 23 | 384 | 6.5 | 35 | J | 6.7 | -2 | 119 | -3.1 | 4.6 | 3.0 | 2 | J |
| 24 | 390 | 9.1 | 45 | J | 5.5 | 16 | 103 | -0.9 | 2.5 | 3.1 | 3 | C |

MAR. 22, 1979 81

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 381 | 8.8 | 38 | J | 5.4 | 2 | 121 | -2.4 | 3.2 | 2.3 | 3 | J |
| 2 | 378 | 9.6 | 31 | J | 5.6 | -13 | 104 | -1.2 | 4.5 | 1.5 | 3 | J |
| 3 | 383 | 10.5 | 30 | J | 5.9 | -41 | 86 | 0.3 | 5.5 | -1.1 | 2 | J |
| 4 | 368 | 10.0 | 48 | J | 6.0 | -21 | 119 | -2.3 | 4.5 | 0.3 | 3 | J |
| 5 | 358 | 10.6 | 48 | J | 5.4 | 11 | 137 | -3.3 | 2.4 | 2.1 | 3 | J |
| 6 | 347 | 10.4 | 41 | J | 5.5 | 39 | 149 | -3.7 | 0.8 | 4.0 | 1 | J |
| 7 | 342 | 10.3 | 20 | J | 5.7 | 33 | 146 | -3.5 | 1.4 | 3.4 | 3 | J |
| 8 | 349 | 12.6 | 26 | J | 5.0 | 9 | 118 | -1.8 | 3.1 | 1.5 | 3 | J |
| 9 | 417 | 24.8 | 76 | J | 12.4 | 69 | 141 | -3.2 | -0.1 | 11.1 | 7 | J |
| 10 | 431 | 32.0 | 97 | J | 13.1 | 55 | 142 | -5.5 | 2.0 | 10.6 | 6 | J |
| 11 | 463 | 18.6 | 223 | J | 21.4 | -40 | 309 | 7.7 | -7.1 | -12.0 | 15 | J |
| 12 | 475 | 20.3 | 150 | J | 23.4 | 15 | 293 | 7.7 | -18.9 | 1.3 | 11 | J |
| 13 | 481 | 15.7 | 222 | J | 22.8 | 48 | 283 | 3.4 | -17.9 | 12.8 | 5 | J |
| 14 | 473 | 15.7 | 203 | J | 23.0 | -19 | 303 | 10.9 | -14.4 | -10.9 | 9 | J |
| 15 | 483 | 32.5 | 152 | J | 21.2 | -58 | 314 | 6.4 | -2.0 | -16.0 | 13 | J |
| 16 | 467 | 34.9 | 83 | J | 15.2 | -60 | 85 | 0.6 | 10.8 | -9.2 | 6 | J |
| 17 | 490 | 18.5 | 102 | J | 16.8 | 13 | 110 | -3.9 | 8.9 | 6.6 | 12 | J |
| 18 | 503 | 18.9 | 58 | J | 17.7 | 19 | 113 | -4.0 | 7.0 | 7.2 | 14 | J |
| 19 | 511 | 13.6 | 113 | J | 14.4 | -58 | 181 | -6.3 | 4.7 | -8.8 | 8 | J |
| 20 | 482 | 15.1 | 55 | J | 10.1 | 6 | 105 | -2.4 | 7.2 | 5.5 | 4 | J |
| 21 | 504 | 15.5 | 73 | J | 9.5 | -11 | 95 | -0.6 | 6.3 | 2.5 | 7 | J |
| 22 | 522 | 20.3 | 40 | J | 12.2 | -5 | 131 | -7.7 | 7.9 | 4.1 | 3 | J |
| 23 | 527 | 17.5 | 33 | J | 12.5 | 0 | 147 | -10.2 | 5.5 | 3.8 | 2 | J |
| 24 | 521 | 16.2 | 42 | J | 12.8 | 6 | 158 | -11.6 | 3.1 | 3.8 | 2 | J |

MAR. 23, 1979 82

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 504 | 11.0 | 26 | J | 12.9 | -13 | 137 | -9.1 | 8.7 | 2.3 | 2 | J |
| 2 | 496 | 16.3 | 22 | J | 12.7 | -21 | 138 | -8.5 | 8.9 | 0.3 | 3 | J |
| 3 | 478 | 18.2 | 23 | J | 12.8 | -20 | 122 | -6.1 | 10.6 | 1.2 | 4 | J |
| 4 | 478 | 13.8 | 21 | J | 13.3 | -16 | 124 | -7.1 | 11.1 | 1.6 | 1 | J |
| 5 | 468 | 14.3 | 18 | C | 13.7 | -14 | 120 | -6.6 | 11.9 | 1.7 | 1 | J |
| 6 | 461 | 12.1 | 19 | C | 13.7 | -12 | 114 | -5.4 | 12.4 | 1.8 | 0 | J |
| 7 | 457 | 24.3 | 23 | J | 13.0 | -11 | 110 | -4.4 | 12.2 | 1.4 | 1 | J |
| 8 | 455 | 21.4 | 22 | J | 12.5 | -4 | 106 | -3.4 | 11.8 | 2.4 | 1 | J |
| 9 | 440 | 13.1 | 60 | J | 11.7 | 30 | 122 | -4.2 | 5.4 | 6.0 | 7 | J |
| 10 | 427 | 6.0 | 70 | C | 12.6 | 61 | 212 | -4.8 | -5.1 | 9.1 | 5 | C |
| 11 | 423 | 3.7 | 101 | C | 12.8 | 40 | 271 | 0.2 | -10.9 | 5.8 | 3 | C |
| 12 | 445 | 4.8 | 167 | C | 11.6 | 52 | 253 | -1.5 | -6.2 | 5.4 | 7 | C |
| 13 | 451 | 5.2 | 170 | C | 11.7 | 68 | 184 | -4.0 | -2.5 | 9.4 | 5 | C |
| 14 | 440 | 4.5 | 158 | C | 12.2 | 30 | 268 | -0.4 | -11.5 | 3.2 | 2 | C |
| 15 | 448 | 4.7 | 157 | C | 11.0 | 47 | 250 | -2.4 | -8.7 | 5.3 | 3 | C |
| 16 | 458 | 5.1 | 185 | C | 11.0 | 44 | 265 | -0.7 | -9.2 | 4.2 | 4 | C |
| 17 | 432 | 6.1 | 201 | C | 8.6 | 19 | 308 | 4.6 | -6.5 | 0.2 | 3 | C |
| 18 | 476 | 4.7 | 187 | C | 10.2 | 36 | 287 | 2.1 | -8.7 | 1.8 | 4 | C |
| 19 | 483 | 3.7 | 164 | C | 10.8 | 28 | 265 | -0.9 | -10.6 | -0.2 | 1 | C |
| 20 | 494 | 3.6 | 155 | C | 11.0 | 31 | 262 | -1.3 | -10.8 | 0.0 | 1 | C |
| 21 | 494 | 3.5 | 165 | C | 10.0 | 36 | 253 | -2.3 | -9.6 | 0.7 | 1 | C |
| 22 | 513 | 2.9 | 207 | C | 9.3 | 32 | 236 | -4.3 | -7.9 | 0.4 | 2 | C |
| 23 | 501 | 3.2 | 220 | C | 9.3 | 32 | 244 | -3.2 | -8.1 | 0.1 | 3 | C |
| 24 | 504 | 3.7 | 189 | C | 9.3 | 7 | 275 | 0.8 | -8.0 | -4.2 | 2 | C |

MAR. 24, 1979 83

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 518 | 3.4 | 181 | C | 10.0 | 19 | 261 | -1.5 | -9.2 | -2.3 | 2 | C |
| 2 | 514 | 3.1 | 191 | C | 10.7 | 29 | 254 | -2.4 | -9.9 | -0.3 | 3 | C |
| 3 | 498 | 3.2 | 148 | C | 10.3 | 23 | 269 | -0.2 | -9.6 | -1.2 | 3 | C |
| 4 | 504 | 4.1 | 184 | C | 8.9 | 24 | 298 | 3.2 | -6.9 | -0.1 | 3 | C |
| 5 | 539 | 5.0 | 181 | C | 9.8 | 26 | 250 | -2.7 | -8.5 | 0.5 | 3 | C |
| 6 | 487 | 5.1 | 151 | C | 9.7 | 35 | 294 | 3.2 | -8.4 | 2.5 | 2 | C |
| 7 | 484 | 6.1 | 116 | C | 10.8 | -13 | 326 | 7.4 | -4.1 | -3.5 | 5 | C |
| 8 | 481 | 6.6 | 117 | C | 11.4 | -11 | 5 | 10.4 | 1.3 | -1.7 | 4 | C |
| 9 | 496 | 5.7 | 103 | C | 10.1 | -6 | 10 | 8.5 | 1.6 | -0.5 | 5 | C |
| 10 | 498 | 4.3 | 79 | C | 10.5 | 42 | 305 | 4.4 | -7.6 | 5.3 | 2 | C |
| 11 | 510 | 3.6 | 68 | C | 9.9 | 39 | 300 | 3.8 | -7.7 | 4.7 | 1 | C |
| 12 | 507 | 3.7 | 70 | C | 9.8 | 36 | 298 | 3.7 | -7.9 | 4.1 | 1 | C |
| 13 | 490 | 3.6 | 69 | C | 9.6 | 28 | 296 | 3.7 | -8.4 | 2.7 | 0 | C |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  | 8.2 | 11 | 315 | 5.7 | -5.8 | -0.4 | 0 | C |
| 17 | 519 | 3.8 | 74 | C | 8.3 | 32 | 306 | 3.5 | -5.8 | 1.6 | 4 | C |
| 18 | 500 | 3.7 | 77 | C | 8.3 | 17 | 319 | 5.7 | -5.4 | 0.0 | 2 | C |
| 19 | 517 | 3.9 | 76 | C | 8.1 | 42 | 298 | 2.7 | -6.9 | 2.1 | 2 | C |
| 20 | 486 | 4.1 | 76 | C | 8.0 | 4 | 322 | 5.9 | -4.2 | -1.9 | 2 | C |
| 21 | 500 | 4.2 | 82 | C | 8.4 | 22 | 306 | 4.2 | -6.5 | -0.7 | 2 | C |
| 22 | 503 | 4.3 | 73 | C | 8.8 | 26 | 307 | 4.5 | -7.0 | -0.4 | 2 | C |
| 23 | 499 | 4.6 | 86 | C | 8.6 | -1 | 310 | 5.2 | -5.0 | -3.7 | 2 | C |
| 24 | 498 | 4.1 | 96 | C | 8.8 | 7 | 323 | 6.4 | -4.5 | -1.9 | 3 | C |

MAR. 25, 1979 84

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 539 | 3.6 | 99 | C | 9.5 | 16 | 307 | 5.4 | -7.3 | -1.8 | 2 | C |
| 2 | 514 | 4.0 | 99 | C | 9.5 | 5 | 313 | 6.4 | -6.2 | -2.9 | 1 | C |
| 3 | 508 | 4.1 | 100 | C | 9.7 | -4 | 322 | 7.4 | -4.7 | -3.5 | 2 | C |
| 4 | 518 | 4.1 | 120 | C | 10.0 | 20 | 317 | 6.3 | -6.7 | 0.1 | 3 | C |
| 5 |  |  |  |  | 10.1 | -1 | 313 | 6.3 | -6.2 | -2.9 | 3 | C |
| 6 | 521 | 5.2 | 132 | C | 9.6 | -1 | 318 | 6.6 | -5.4 | -2.3 | 3 | C |
| 7 | 519 | 5.3 | 163 | C | 9.9 | 5 | 312 | 6.1 | -6.7 | -1.4 | 2 | C |
| 8 | 499 | 5.2 | 138 | C | 9.8 | -8 | 355 | 8.5 | -0.4 | -1.4 | 4 | C |
| 9 | 532 | 5.5 | 167 | C | 10.4 | 22 | 310 | 4.8 | -6.3 | 1.6 | 6 | C |
| 10 | 508 | 6.2 | 149 | C | 10.4 | -3 | 327 | 7.2 | -4.4 | -1.4 | 5 | C |
| 11 | 493 | 5.5 | 127 | C | 10.9 | 4 | 317 | 7.1 | -6.6 | -0.7 | 4 | C |
| 12 | 482 | 5.6 | 123 | C | 11.5 | -1 | 310 | 6.8 | -7.8 | -1.9 | 4 | C |
| 13 | 460 | 5.7 | 107 | C | 11.8 | -17 | 357 | 10.7 | 0.2 | -3.3 | 3 | C |
| 14 | 464 | 6.1 | 104 | C | 12.0 | -18 | 20 | 10.5 | 4.6 | -2.5 | 1 | C |
| 15 | 459 | 5.2 | 111 | C | 11.9 | 0 | 331 | 8.4 | -4.5 | -1.4 | 7 | C |
| 16 | 453 | 5.0 | 101 | C | 12.0 | 0 | 311 | 7.8 | -8.3 | -3.1 | 2 | C |
| 17 | 466 | 5.0 | 104 | C | 11.8 | 5 | 298 | 5.3 | -9.7 | -3.0 | 2 | C |
| 18 | 470 | 5.4 | 123 | C | 11.0 | 4 | 306 | 5.8 | -7.5 | -2.8 | 4 | C |
| 19 | 444 | 5.1 | 122 | C | 11.1 | 4 | 324 | 8.1 | -5.4 | -2.2 | 4 | C |
| 20 | 441 | 4.9 | 123 | C | 11.1 | 23 | 334 | 8.3 | -5.4 | 1.2 | 4 | C |
| 21 | 424 | 4.7 | 90 | C | 12.2 | -12 | 321 | 9.1 | -4.8 | -6.1 | 2 | C |
| 22 | 430 | 4.9 | 107 | C | 12.0 | -5 | 313 | 8.0 | -6.7 | -5.7 | 1 | C |
| 23 | 435 | 5.0 | 109 | C | 11.9 | -7 | 315 | 8.3 | -5.9 | -5.8 | 2 | C |
| 24 | 467 | 4.9 | 107 | C | 12.4 | -12 | 294 | 4.8 | -7.5 | -8.1 | 2 | C |

MAR. 26, 1979 85

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 440 | 5.1 | 115 | C | 12.1 | -10 | 308 | 7.1 | -6.4 | -6.6 | 3 | C |
| 2 | 448 | 5.5 | 124 | C | 11.9 | -8 | 305 | 6.2 | -6.7 | -5.9 | 4 | C |
| 3 | 432 | 5.3 | 119 | C | 11.8 | 1 | 312 | 7.4 | -7.4 | -4.0 | 3 | C |
| 4 | 430 | 5.4 | 115 | C | 11.8 | 3 | 319 | 8.2 | -6.6 | -2.8 | 4 | C |
| 5 | 438 | 5.4 | 106 | C | 12.1 | 0 | 304 | 6.5 | -8.8 | -3.9 | 3 | C |
| 6 | 444 | 6.3 | 99 | C | 11.6 | 22 | 342 | 7.2 | -3.3 | 2.0 | 8 | C |
| 7 | 408 | 6.2 | 81 | C | 11.7 | 16 | 348 | 10.8 | -3.2 | 2.4 | 2 | C |
| 8 | 419 | 6.0 | 83 | C | 11.4 | -16 | 313 | 7.2 | -6.7 | -5.0 | 2 | C |
| 9 | 423 | 5.0 | 73 | C | 11.8 | -8 | 308 | 7.0 | -8.4 | -3.6 | 2 | C |
| 10 | 411 | 5.2 | 76 | C | 11.1 | 1 | 310 | 6.9 | -8.1 | -1.6 | 2 | C |
| 11 | 408 | 6.5 | 96 | C | 9.5 | 8 | 331 | 7.0 | -4.0 | 0.4 | 5 | C |
| 12 | 416 | 6.7 | 108 | C | 9.8 | -20 | 311 | 5.3 | -5.4 | -4.1 | 4 | C |
| 13 | 428 | 5.9 | 95 | C | 9.9 | -44 | 306 | 3.6 | -3.6 | -6.9 | 4 | C |
| 14 | 415 | 5.9 | 88 | C | 9.9 | -16 | 308 | 5.2 | -5.8 | -4.0 | 4 | C |
| 15 | 414 | 6.1 | 89 | C | 9.4 | -2 | 314 | 6.0 | -5.9 | -2.1 | 2 | C |
| 16 | 430 | 6.0 | 89 | C | 9.3 | 36 | 321 | 5.4 | -5.8 | 3.3 | 3 | C |
| 17 | 426 | 5.8 | 70 | C | 9.3 | -16 | 307 | 5.1 | -5.3 | -4.8 | 3 | C |
| 18 | 469 | 5.5 | 74 | C | 9.0 | -47 | 267 | -0.3 | -2.5 | -8.2 | 2 | C |
| 19 | 435 | 5.3 | 115 | C | 7.4 | -13 | 324 | 4.6 | -2.3 | -2.8 | 4 | C |
| 20 | 437 | 5.0 | 110 | C | 7.8 | -14 | 314 | 4.8 | -3.4 | -4.1 | 3 | C |
| 21 | 429 | 4.8 | 104 | C | 8.0 | -17 | 314 | 5.0 | -3.1 | -4.7 | 2 | C |
| 22 | 452 | 4.9 | 114 | C | 7.0 | -10 | 300 | 2.5 | -3.2 | -3.2 | 4 | C |
| 23 | 449 | 5.4 | 101 | C | 8.0 | 17 | 46 | 5.1 | 3.0 | 4.8 | 2 | C |
| 24 | 446 | 5.1 | 95 | C | 7.6 | 34 | 32 | 5.2 | 0.3 | 5.2 | 1 | C |

MAR. 27, 1979 86

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 447 | 4.9 | 102 | C | 6.9 | 45 | 20 | 4.2 | -1.2 | 4.6 | 2 | C |
| 2 | 436 | 4.7 | 94 | C | 6.7 | 32 | 3 | 5.0 | -1.4 | 2.8 | 3 | C |
| 3 | 450 | 4.8 | 102 | C | 6.8 | 36 | 357 | 3.7 | -1.5 | 2.2 | 5 | C |
| 4 | 437 | 4.7 | 109 | C | 7.3 | 12 | 317 | 5.1 | -4.8 | -0.9 | 1 | C |
| 5 | 435 | 4.6 | 92 | C | 7.3 | 10 | 306 | 3.8 | -5.3 | -1.1 | 3 | C |
| 6 | 463 | 4.3 | 62 | C | 7.3 | -23 | 277 | 0.7 | -4.7 | -4.6 | 3 | C |
| 7 | 465 | 4.2 | 54 | C | 7.9 | -16 | 271 | 0.2 | -6.5 | -4.4 | 1 | C |
| 8 | 471 | 4.1 | 54 | C | 8.2 | -15 | 261 | -1.2 | -6.8 | -4.1 | 1 | C |
| 9 | 457 | 3.5 | 59 | C | 8.3 | -15 | 275 | 0.7 | -7.2 | -4.0 | 1 | C |
| 10 | 439 | 5.1 | 72 | C | 7.3 | -1 | 322 | 5.2 | -3.9 | -1.0 | 3 | C |
| 11 | 432 | 5.2 | 73 | C | 6.6 | 18 | 333 | 5.2 | -2.9 | 1.3 | 2 | C |
| 12 | 454 | 4.9 | 67 | C | 7.0 | -29 | 289 | 1.8 | -4.4 | -4.1 | 3 | C |
| 13 | 462 | 4.3 | 71 | C | 7.2 | -3 | 287 | 1.9 | -6.2 | -1.8 | 2 | C |
| 14 | 445 | 3.9 | 73 | C | 7.1 | -9 | 303 | 3.6 | -5.2 | -2.4 | 2 | C |
| 15 | 449 | 4.3 | 69 | C | 6.8 | -10 | 303 | 2.9 | -4.0 | -2.2 | 4 | C |
| 16 | 461 | 4.0 | 70 | C | 7.3 | -30 | 286 | 1.6 | -4.0 | -4.8 | 3 | C |
| 17 | 449 | 4.0 | 71 | C | 7.5 | -36 | 298 | 2.7 | -3.2 | -5.9 | 1 | C |
| 18 | 451 | 3.7 | 81 | C | 7.3 | 11 | 309 | 3.7 | -4.6 | -0.9 | 4 | C |
| 19 | 478 | 1.8 | 121 | C | 7.5 | -17 | 298 | 3.2 | -4.3 | -4.7 | 2 | C |
| 20 | 492 | 1.5 | 100 | C | 7.5 | -18 | 302 | 3.6 | -3.9 | -4.9 | 1 | C |
| 21 | 481 | 1.4 | 82 | C | 7.5 | -20 | 313 | 4.8 | -2.9 | -4.8 | 1 | C |
| 22 | 483 | 1.4 | 77 | C | 7.3 | -15 | 321 | 5.1 | -2.4 | -3.7 | 2 | C |
| 23 | 525 | 1.3 | 92 | C | 7.2 | -16 | 306 | 3.8 | -3.3 | -4.6 | 2 | C |
| 24 | 556 | 1.5 | 103 | C | 7.2 | -7 | 304 | 3.5 | -3.9 | -3.6 | 3 | C |

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MAR. 28, 1979 87

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 540 | 1.4 | 100 | C | 6.8 | -46 | 286 | 1.3 | -1.0 | -6.6 | 0 | C |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 514 | 1.4 | 109 | C | 6.7 | 16 | 331 | 5.3 | -3.3 | 0.7 | 2 | C |
| 8 | 509 | 1.2 | 103 | C | 6.7 | 7 | 321 | 4.9 | -3.9 | -0.4 | 2 | C |
| 9 | 556 | 1.5 | 180 | C | 8.4 | -11 | 301 | 3.9 | -5.8 | -2.9 | 4 | C |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 664 | 3.0 | 465 | C | 12.5 | 6 | 287 | 3.0 | -9.5 | -0.9 | 7 | C |
| 13 | 642 | 3.6 | 336 | C | 12.0 | -10 | 300 | 5.5 | -9.0 | -4.1 | 3 | C |
| 14 | 624 | 4.6 | 375 | C | 9.2 | 13 | 293 | 3.3 | -8.0 | -0.1 | 3 | C |
| 15 | 623 | 6.4 | 238 | C | 9.4 | 12 | 276 | 0.7 | -6.2 | -0.5 | 6 | C |
| 16 | 601 | 7.3 | 194 | C | 9.6 | 5 | 295 | 3.1 | -6.5 | -1.6 | 6 | C |
| 17 | 593 | 7.6 | 202 | C | 9.5 | 15 | 293 | 3.3 | -8.3 | -0.9 | 2 | C |
| 18 | 587 | 7.3 | 202 | C | 9.8 | 28 | 289 | 2.6 | -8.7 | 0.5 | 3 | C |
| 19 | 588 | 5.6 | 156 | C | 10.8 | 40 | 291 | 3.0 | -9.9 | 2.4 | 2 | C |
| 20 | 566 | 6.8 | 159 | C | 9.8 | 38 | 284 | 1.9 | -9.2 | 1.3 | 2 | C |
| 21 | 544 | 7.3 | 137 | C | 9.3 | 29 | 286 | 2.1 | -8.4 | -0.4 | 3 | C |
| 22 | 540 | 8.5 | 134 | C | 6.7 | -53 | 280 | 0.6 | -0.2 | -5.7 | 3 | C |
| 23 | 524 | 9.5 | 97 | C | 6.2 | -28 | 296 | 2.0 | -2.0 | -4.4 | 3 | C |
| 24 | 517 | 9.2 | 82 | C | 7.0 | -55 | 320 | 2.9 | 1.1 | -5.9 | 2 | C |

MAR. 29, 1979 88

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 509 | 9.9 | 79 | C | 6.4 | -39 | 319 | 3.4 | -0.5 | -4.8 | 2 | C |
| 2 | 501 | 8.8 | 68 | C | 6.3 | -56 | 314 | 2.3 | 0.6 | -5.5 | 2 | C |
| 3 | 491 | 8.3 | 71 | C | 5.8 | -52 | 336 | 3.0 | 0.9 | -4.3 | 2 | C |
| 4 | 491 | 7.9 | 73 | C | 6.2 | -33 | 318 | 3.5 | -1.5 | -4.1 | 2 | C |
| 5 | 503 | 5.3 | 106 | C | 8.7 | 19 | 316 | 5.6 | -6.1 | 0.2 | 2 | C |
| 6 | 520 | 3.4 | 147 | C | 10.0 | -54 | 3 | 5.2 | 2.8 | -6.5 | 4 | C |
| 7 | 529 | 2.6 | 113 | C | 10.3 | -76 | 324 | 2.0 | 1.7 | -9.8 | 2 | C |
| 8 | 528 | 6.4 | 84 | C | 8.2 | -73 | 288 | 0.7 | -0.1 | -7.8 | 2 | C |
| 9 | 535 | 12.1 | 63 | C | 6.7 | 9 | 249 | -1.7 | -4.7 | -0.3 | 4 | C |
| 10 | 548 | 12.7 | 67 | C | 7.5 | 0 | 183 | -7.1 | -0.4 | -0.1 | 2 | C |
| 11 | 528 | 30.1 | 213 | L | 7.4 | -31 | 174 | -6.2 | 1.4 | -3.5 | 1 | C |
| 12 | 534 | 17.2 | 172 | L | 7.8 | -54 | 136 | -3.1 | 4.2 | -5.2 | 2 | C |
| 13 | 524 | 13.1 | 144 | L | 8.0 | -47 | 151 | -4.2 | 3.5 | -4.5 | 3 | C |
| 14 | 518 | 8.5 | 30 | L | 10.1 | -37 | 115 | -3.4 | 8.6 | -4.0 | 1 | C |
| 15 | 451 | 14.1 | 357 | L | 10.7 | -49 | 114 | -2.8 | 8.3 | -5.8 | 2 | C |
| 16 | 506 | 6.1 | 32 | C | 11.1 | -75 | 96 | -0.3 | 5.8 | -8.5 | 4 | C |
| 17 | 494 | 4.8 | 39 | C | 12.2 | -85 | 306 | 0.6 | 3.7 | -11.2 | 3 | C |
| 18 | 489 | 5.7 | 36 | C | 11.3 | -47 | 304 | 4.1 | -2.1 | -9.9 | 3 | C |
| 19 | 472 | 5.4 | 49 | C | 10.7 | -34 | 330 | 7.5 | -1.0 | -7.2 | 2 | C |
| 20 | 485 | 7.6 | 30 | C | 10.3 | -66 | 328 | 3.4 | 2.8 | -8.8 | 2 | C |
| 21 | 482 | 6.8 | 27 | C | 11.5 | -59 | 323 | 4.4 | 2.2 | -9.5 | 4 | C |
| 22 | 471 | 3.7 | 46 | C | 11.7 | -19 | 301 | 5.6 | -5.6 | -8.3 | 1 | C |
| 23 | 468 | 2.4 | 34 | C | 10.7 | -23 | 303 | 5.3 | -4.4 | -8.0 | 2 | C |
| 24 | 461 | 1.9 | 29 | C | 10.0 | -12 | 301 | 5.0 | -5.7 | -6.5 | 0 | C |

MAR. 30, 1979 89

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 462 | 2.1 | 56 | C | 9.3 | -19 | 299 | 4.2 | -4.8 | -6.6 | 1 | C |
| 2 | 454 | 2.4 | 65 | C | 8.5 | -3 | 303 | 4.5 | -5.7 | -4.0 | 2 | C |
| 3 | 467 | 2.4 | 83 | C | 8.2 | -13 | 292 | 3.0 | -5.5 | -5.1 | 1 | C |
| 4 | 462 | 2.8 | 66 | C | 8.0 | -35 | 312 | 4.3 | -2.2 | -6.0 | 2 | C |
| 5 | 444 | 2.9 | 49 | C | 7.4 | -31 | 355 | 5.8 | 1.0 | -3.5 | 3 | C |
| 6 | 447 | 3.0 | 62 | C | 7.2 | -26 | 346 | 5.6 | -0.3 | -3.1 | 2 | C |
| 7 | 454 | 3.2 | 49 | C | 7.1 | -13 | 15 | 6.4 | 2.1 | -1.0 | 1 | C |
| 8 | 454 | 2.9 | 50 | C | 7.0 | 7 | 26 | 6.1 | 2.7 | 1.6 | 1 | C |
| 9 | 458 | 2.7 | 43 | C | 6.6 | 16 | 20 | 5.7 | 1.6 | 2.2 | 2 | C |
| 10 | 468 | 2.7 | 47 | C | 6.4 | 21 | 44 | 4.1 | 3.4 | 3.0 | 2 | C |
| 11 | 446 | 2.7 | 44 | C | 6.2 | -13 | 6 | 5.4 | 0.8 | -1.1 | 2 | C |
| 12 | 445 | 2.6 | 55 | C | 6.2 | -4 | 12 | 5.6 | 1.2 | -0.1 | 2 | J |
| 13 | 442 | 2.7 | 49 | J | 6.2 | -9 | 5 | 5.7 | 0.7 | -0.8 | 2 | J |
| 14 | 452 | 2.9 | 54 | C | 6.2 | -26 | 315 | 3.5 | -2.8 | -3.2 | 2 | J |
| 15 | 447 | 3.2 | 52 | J | 6.2 | -6 | 9 | 5.0 | 0.9 | -0.3 | 4 | J |
| 16 | 451 | 3.2 | 49 | J | 6.0 | 14 | 31 | 4.7 | 2.2 | 2.2 | 2 | J |
| 17 | 461 | 3.5 | 52 | J | 6.2 | -2 | 50 | 3.7 | 4.1 | 1.5 | 2 | J |
| 18 | 437 | 3.5 | 57 | J | 6.4 | -4 | 28 | 5.4 | 2.8 | 0.8 | 2 | J |
| 19 | 438 | 3.6 | 77 | J | 6.2 | 14 | 10 | 5.5 | 0.2 | 1.7 | 2 | J |
| 20 | 441 | 3.8 | 68 | J | 6.1 | 18 | 353 | 5.0 | -1.4 | 1.1 | 3 | J |
| 21 | 450 | 3.8 | 61 | J | 6.1 | 42 | 2 | 3.9 | -1.8 | 3.1 | 3 | J |
| 22 | 449 | 4.1 | 55 | J | 6.3 | 41 | 12 | 4.1 | -1.3 | 3.5 | 3 | J |
| 23 | 420 | 3.9 | 44 | J | 6.2 | 1 | 344 | 5.5 | -1.3 | -0.8 | 2 | J |
| 24 | 428 | 3.4 | 45 | C | 6.4 | -17 | 317 | 4.0 | -2.1 | -3.5 | 2 | C |

MAR. 31, 1979 90

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 421 | 3.5 | 46 | C | 6.3 | -18 | 337 | 4.9 | -0.8 | -2.5 | 3 | C |
| 2 | 416 | 3.6 | 40 | C | 6.5 | -5 | 336 | 5.0 | -1.6 | -1.6 | 3 | C |
| 3 | 406 | 3.6 | 36 | C | 6.6 | -22 | 356 | 5.8 | 0.8 | -2.3 | 1 | C |
| 4 | 412 | 3.6 | 42 | C | 6.7 | -34 | 340 | 4.9 | -0.0 | -3.9 | 2 | C |
| 5 | 410 | 3.8 | 30 | J | 6.9 | 18 | 343 | 5.4 | -2.2 | 1.0 | 3 | J |
| 6 | 406 | 4.1 | 27 | J | 7.2 | 12 | 333 | 6.1 | -3.4 | 0.3 | 1 | J |
| 7 | 399 | 2.9 | 25 | J | 5.9 | -3 | 328 | 4.7 | -2.7 | -1.2 | 2 | J |
| 8 | 394 | 5.5 | 34 | J | 6.5 | 1 | 347 | 6.0 | -1.4 | -0.3 | 2 | J |
| 9 | 407 | 5.5 | 27 | J | 7.1 | 30 | 319 | 4.6 | -4.7 | 2.5 | 1 | J |
| 10 | 399 | 5.6 | 35 | J | 6.9 | 27 | 333 | 5.3 | -3.3 | 2.4 | 1 | J |
| 11 | 394 | 6.2 | 43 | J | 6.6 | 7 | 331 | 5.1 | -2.9 | 0.1 | 3 | J |
| 12 | 396 | 6.3 | 46 | J | 7.0 | 34 | 351 | 5.3 | -1.6 | 3.4 | 2 | J |
| 13 | 396 | 6.4 | 41 | J | 7.1 | 7 | 325 | 4.6 | -3.3 | -0.0 | 4 | J |
| 14 | 412 | 6.9 | 33 | J | 7.2 | -6 | 294 | 2.7 | -5.7 | -2.2 | 2 | J |
| 15 | 425 | 7.1 | 37 | J | 7.5 | -16 | 278 | 0.9 | -5.7 | -3.6 | 3 | J |
| 16 | 401 | 7.0 | 35 | J | 7.7 | -21 | 305 | 3.7 | -4.2 | -4.1 | 3 | J |
| 17 | 394 | 6.9 | 35 | J | 8.1 | -34 | 322 | 4.8 | -1.9 | -5.2 | 3 | J |
| 18 | 390 | 6.5 | 40 | J | 8.5 | -8 | 313 | 5.3 | -4.6 | -3.4 | 3 | J |
| 19 | 392 | 6.6 | 41 | J | 8.6 | -6 | 311 | 5.2 | -4.9 | -3.6 | 3 | J |
| 20 | 416 | 6.6 | 57 | J | 8.9 | -13 | 298 | 3.8 | -5.2 | -5.3 | 3 | J |
| 21 | 433 | 7.7 | 76 | J | 8.7 | 5 | 297 | 1.9 | -3.3 | -1.7 | 8 | J |
| 22 | 397 | 7.1 | 64 | J | 8.0 | -13 | 339 | 5.8 | -1.0 | -2.4 | 5 | J |
| 23 | 434 | 8.7 | 104 | J | 9.3 | -31 | 283 | 1.7 | -3.5 | -8.0 | 2 | J |
| 24 | 418 | 8.4 | 111 | C | 9.9 | -11 | 297 | 4.0 | -5.5 | -5.9 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 408 | 8.8 | 142 | C | 9.0 | 13 | 11 | 5.6 | 0.1 | 1.7 | 7 | C |
| 2 | 442 | 8.6 | 154 | C | 7.9 | -21 | 282 | 1.2 | -3.7 | -4.9 | 4 | C |
| 3 | 422 | 8.2 | 150 | C | 7.4 | -14 | 353 | 5.3 | 0.1 | -1.5 | 4 | C |
| 4 | 429 | 9.1 | 173 | C | 8.3 | 39 | 295 | 2.2 | -5.9 | 1.6 | 4 | C |
| 5 | 435 | 8.0 | 164 | C | 8.7 | 55 | 308 | 2.6 | -5.5 | 4.3 | 3 | C |
| 6 | 426 | 7.8 | 134 | C | 10.0 | 47 | 303 | 3.5 | -7.6 | 4.6 | 2 | C |
| 7 | 450 | 9.6 | 223 | J | 8.8 | 45 | 292 | 1.8 | -5.7 | 3.2 | 6 | J |
| 8 | 447 | 9.0 | 284 | J | 8.7 | 2 | 286 | 2.3 | -7.7 | -1.8 | 3 | J |
| 9 | 441 | 6.3 | 209 | C | 9.1 | -4 | 294 | 2.8 | -5.9 | -1.9 | 5 | C |
| 10 | 457 | 5.3 | 192 | C | 8.4 | -40 | 286 | 1.3 | -3.8 | -5.0 | 4 | C |
| 11 | 459 | 5.3 | 256 | J | 8.6 | -15 | 335 | 5.6 | -2.2 | -2.1 | 6 | J |
| 12 | 486 | 4.0 | 206 | J | 9.0 | -23 | 292 | 2.8 | -6.0 | -4.4 | 4 | J |
| 13 | 502 | 3.3 | 179 | J | 9.8 | -41 | 291 | 2.4 | -4.8 | -7.1 | 4 | J |
| 14 | 484 | 3.7 | 166 | J | 9.9 | -17 | 308 | 5.1 | -5.7 | -4.1 | 5 | J |
| 15 | 472 | 3.7 | 120 | J | 9.7 | 3 | 319 | 6.6 | -5.6 | -1.2 | 4 | J |
| 16 | 488 | 3.9 | 150 | J | 9.5 | 7 | 318 | 6.0 | -5.4 | -0.8 | 5 | J |
| 17 | 510 | 2.9 | 172 | J | 9.1 | 3 | 299 | 4.1 | -7.0 | -2.4 | 3 | J |
| 18 | 521 | 2.9 | 132 | J | 8.5 | 31 | 316 | 4.8 | -5.9 | 1.6 | 3 | J |
| 19 | 530 | 2.9 | 165 | J | 8.6 | 22 | 322 | 5.3 | -5.0 | 0.4 | 4 | J |
| 20 | 514 | 2.8 | 132 | J | 8.5 | 15 | 327 | 6.2 | -4.4 | -0.4 | 4 | J |
| 21 | 511 | 2.7 | 132 | J | 8.5 | 14 | 318 | 6.0 | -5.6 | -1.2 | 2 | J |
| 22 | 543 | 3.6 | 231 | J | 9.4 | 1 | 304 | 4.6 | -5.7 | -3.7 | 5 | J |
| 23 | 662 | 8.7 | 895 | J | 14.1 | 11 | 278 | 1.4 | -9.3 | -4.0 | 10 | J |
| 24 | 642 | 8.4 | 690 | J | 14.0 | 49 | 350 | 8.1 | -6.5 | 7.0 | 6 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 670 | 7.8 | 350 | C | 13.9 | -30 | 248 | -4.2 | -5.3 | -11.3 | 3 | C |
| 2 | 670 | 7.2 | 390 | C | 13.4 | 10 | 250 | -4.3 | -11.1 | -4.2 | 4 | C |
| 3 | 646 | 4.6 | 474 | C | 12.6 | 41 | 288 | 2.6 | -10.7 | 2.4 | 5 | C |
| 4 | 668 | 5.0 | 312 | C | 11.9 | 10 | 212 | -9.7 | -6.4 | -0.8 | 1 | C |
| 5 | 631 | 5.0 | 282 | C | 11.7 | 19 | 232 | -6.1 | -8.5 | 0.0 | 4 | C |
| 6 | 611 | 3.9 | 236 | C | 13.0 | 9 | 235 | -7.0 | -10.1 | -1.7 | 3 | C |
| 7 | 599 | 4.0 | 222 | J | 11.4 | 34 | 263 | -0.9 | -8.6 | 2.5 | 7 | J |
| 8 | 585 | 3.5 | 194 | J | 11.2 | 38 | 288 | 2.6 | -9.4 | 4.2 | 3 | J |
| 9 | 592 | 2.9 | 125 | J | 11.8 | 13 | 263 | -1.4 | -11.6 | -0.1 | 1 | J |
| 10 | 601 | 2.7 | 148 | J | 11.7 | 12 | 254 | -3.1 | -11.2 | 0.1 | 1 | J |
| 11 | 593 | 2.7 | 126 | J | 12.0 | 11 | 246 | -4.7 | -10.7 | 0.1 | 3 | J |
| 12 | 628 | 3.0 | 142 | J | 11.9 | 0 | 232 | -6.0 | -7.6 | -1.6 | 7 | J |
| 13 | 680 | 4.4 | 82 | J | 11.7 | -16 | 218 | -8.7 | -6.0 | -4.6 | 2 | J |
| 14 | 655 | 4.0 | 89 | J | 11.2 | -11 | 221 | -8.2 | -6.4 | -3.8 | 1 | J |
| 15 | 654 | 3.9 | 92 | J | 10.9 | -14 | 221 | -7.9 | -5.9 | -4.5 | 1 | J |
| 16 | 641 | 4.3 | 105 | J | 10.5 | -13 | 225 | -7.2 | -6.1 | -4.6 | 1 | J |
| 17 | 632 | 5.0 | 73 | J | 10.1 | -16 | 226 | -6.7 | -5.4 | -5.2 | 1 | J |
| 18 | 617 | 4.8 | 71 | J | 10.4 | 15 | 278 | 1.1 | -8.3 | -1.5 | 6 | J |
| 19 | 589 | 3.0 | 17 | L | 11.0 | 28 | 293 | 3.7 | -10.0 | 0.3 | 2 | J |
| 20 | 600 | 4.0 | 42 | J | 10.5 | 29 | 300 | 4.5 | -9.3 | 0.3 | 2 | J |
| 21 | 590 | 3.5 | 49 | J | 9.8 | 21 | 308 | 5.5 | -7.8 | -0.9 | 2 | J |
| 22 | 587 | 3.5 | 54 | J | 9.5 | 32 | 309 | 5.0 | -7.8 | 0.7 | 2 | J |
| 23 | 583 | 4.5 | 51 | J | 8.9 | 28 | 303 | 4.2 | -7.7 | -0.3 | 1 | J |
| 24 | 579 | 4.9 | 55 | J | 8.5 | 26 | 313 | 5.1 | -6.6 | -0.0 | 1 | J |

APR. 3, 1979 93

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 556 | 4.8 | 44 | J | 8.3 | 20 | 319 | 5.7 | -5.7 | -0.4 | 2 | J |
| 2 | 555 | 4.2 | 41 | J | 8.2 | 28 | 322 | 5.5 | -5.6 | 0.9 | 2 | J |
| 3 | 548 | 3.7 | 35 | J | 8.1 | 25 | 320 | 5.4 | -5.6 | 0.7 | 2 | J |
| 4 | 546 | 4.3 | 32 | J | 8.0 | 28 | 327 | 5.8 | -5.1 | 1.6 | 2 | J |
| 5 | 543 | 3.6 | 29 | J | 8.0 | 37 | 323 | 5.1 | -5.4 | 2.9 | 1 | J |
| 6 | 548 | 2.7 | 34 | J | 8.0 | 26 | 296 | 3.1 | -7.2 | 1.0 | 1 | J |
| 7 | 557 | 2.9 | 42 | J | 8.0 | 6 | 285 | 2.0 | -7.5 | -1.5 | 1 | J |
| 8 | 547 | 3.1 | 39 | J | 7.6 | 12 | 308 | 3.9 | -5.2 | -0.0 | 4 | J |
| 9 | 531 | 3.8 | 39 | J | 7.5 | 20 | 324 | 5.5 | -4.5 | 1.5 | 2 | J |
| 10 | 524 | 4.4 | 57 | J | 7.6 | 23 | 331 | 6.0 | -3.9 | 2.2 | 2 | J |
| 11 | 579 | 7.0 | 57 | J | 12.5 | 40 | 309 | 6.0 | -8.8 | 6.4 | 2 | J |
| 12 | 566 | 7.8 | 44 | J | 13.6 | 47 | 312 | 6.1 | -8.6 | 8.2 | 2 | J |
| 13 | 556 | 7.1 | 40 | J | 13.2 | 57 | 332 | 6.2 | -5.6 | 9.8 | 3 | J |
| 14 | 562 | 10.4 | 39 | J | 13.1 | 53 | 327 | 6.6 | -6.7 | 9.0 | 2 | J |
| 15 | 556 | 8.5 | 43 | J | 13.5 | 58 | 347 | 6.7 | -4.6 | 10.1 | 4 | J |
| 16 | 571 | 6.6 | 122 | J | 12.8 | -20 | 283 | 2.5 | -9.0 | -7.4 | 5 | J |
| 17 | 570 | 7.0 | 100 | J | 12.6 | -25 | 274 | 0.8 | -8.5 | -9.2 | 2 | J |
| 18 | 582 | 9.5 | 120 | J | 13.2 | -27 | 257 | -2.5 | -7.5 | -9.9 | 4 | J |
| 19 | 574 | 9.2 | 101 | J | 12.7 | -13 | 268 | -0.4 | -9.1 | -8.0 | 4 | J |
| 20 | 585 | 12.0 | 69 | J | 14.0 | -19 | 256 | -3.1 | -8.5 | -10.2 | 3 | J |
| 21 | 574 | 18.1 | 50 | J | 12.9 | -23 | 255 | -2.6 | -6.0 | -9.0 | 6 | J |
| 22 | 555 | 12.3 | 36 | J | 15.6 | -79 | 3 | 2.9 | 8.5 | -12.5 | 3 | J |
| 23 | 554 | 10.8 | 40 | J | 17.4 | -64 | 277 | 0.9 | 2.5 | -16.9 | 4 | J |
| 24 | 551 | 11.2 | 38 | J | 17.7 | -54 | 281 | 1.9 | -0.4 | -16.7 | 6 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 549 | 5.2 | 31 | J | 18.5 | -21 | 269 | -0.3 | -10.8 | -14.9 | 2 | J |
| 2 | 545 | 4.6 | 45 | J | 17.8 | -41 | 279 | 1.9 | -4.7 | -14.9 | 8 | J |
| 3 | 543 | 6.0 | 26 | J | 19.1 | -20 | 282 | 3.7 | -11.9 | -13.9 | 4 | J |
| 4 | 539 | 5.8 | 29 | J | 18.5 | -15 | 283 | 3.9 | -13.1 | -11.7 | 4 | J |
| 5 | 516 | 10.4 | 21 | L | 17.2 | -3 | 299 | 8.1 | -13.0 | -6.6 | 4 | J |
| 6 | | | | | 16.5 | -1 | 299 | 8.0 | -13.4 | -5.3 | 1 | J |
| 7 | 492 | 8.0 | 23 | J | 15.5 | 10 | 307 | 8.9 | -12.0 | -1.1 | 4 | J |
| 8 | 494 | 7.2 | 23 | J | 15.1 | -3 | 302 | 7.9 | -12.0 | -4.1 | 2 | J |
| 9 | 496 | 8.0 | 25 | J | 14.9 | 4 | 298 | 6.9 | -12.8 | -2.0 | 2 | J |
| 10 | 497 | 9.4 | 33 | J | 14.9 | 14 | 306 | 8.3 | -11.9 | 1.1 | 3 | J |
| 11 | 470 | 10.0 | 19 | C | 14.5 | 8 | 303 | 7.7 | -12.0 | -0.4 | 2 | J |
| 12 | 472 | 11.5 | 33 | C | 14.5 | -6 | 301 | 7.2 | -11.5 | -3.8 | 3 | J |
| 13 | 473 | 12.2 | 28 | J | 14.7 | 17 | 311 | 9.2 | -11.2 | 1.9 | 2 | J |
| 14 | 514 | 8.9 | 43 | J | 14.6 | 24 | 315 | 9.4 | -10.5 | 3.4 | 1 | J |
| 15 | 456 | 8.6 | 27 | J | 14.2 | 26 | 320 | 9.7 | -9.6 | 3.6 | 2 | J |
| 16 | 456 | 10.0 | 29 | J | 14.0 | 26 | 313 | 8.5 | -10.6 | 2.8 | 2 | J |
| 17 | 448 | 5.0 | 21 | J | 14.0 | 34 | 336 | 10.5 | -7.3 | 5.4 | 1 | J |
| 18 | 434 | 3.0 | 24 | L | 14.1 | 28 | 320 | 9.5 | -9.9 | 2.5 | 1 | C |
| 19 | 421 | 3.4 | 28 | L | 13.9 | 32 | 328 | 10.0 | -8.8 | 3.4 | 2 | C |
| 20 | 423 | 3.2 | 24 | L | 13.6 | 36 | 336 | 10.0 | -7.8 | 4.6 | 2 | C |
| 21 | 426 | 6.3 | 33 | J | 12.7 | 34 | 340 | 9.7 | -6.7 | 4.0 | 3 | J |
| 22 | 424 | 6.7 | 33 | J | 12.1 | 22 | 338 | 10.2 | -5.9 | 1.4 | 2 | J |
| 23 | 427 | 6.8 | 33 | J | 12.6 | 18 | 326 | 9.7 | -7.5 | -0.5 | 2 | J |
| 24 | 408 | 6.9 | 22 | J | 12.9 | 12 | 332 | 11.1 | -6.4 | -1.1 | 1 | J |

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### APR. 5, 1979

95

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 406 | 7.1 | 20 | J | 13.2 | 17 | 331 | 11.0 | -7.2 | -0.1 | 2 | J |
| 2 | 415 | 6.2 | 48 | L | 13.9 | 24 | 333 | 10.8 | -7.5 | 1.8 | 4 | J |
| 3 | 589 | 7.5 | 322 | L | 25.2 | 35 | 13 | 19.0 | -2.8 | 14.1 | 7 | C |
| 4 | 573 | 16.5 | 270 | L | 25.0 | 50 | 324 | 12.5 | -16.2 | 12.5 | 6 | C |
| 5 | 567 | 30.9 | 294 | L | 30.7 | 29 | 12 | 25.1 | -0.6 | 15.1 | 6 | C |
| 6 | 573 | 40.1 | 346 | L | 29.8 | 20 | 28 | 24.0 | 8.8 | 13.6 | 6 | C |
| 7 | 566 | 47.9 | 251 | L | 33.9 | 5 | 44 | 21.9 | 19.3 | 8.9 | 13 | C |
| 8 | 555 | 30.4 | 298 | L | 35.8 | 9 | 49 | 22.5 | 23.9 | 12.2 | 6 | C |
| 9 | 563 | 21.1 | 274 | L | 25.2 | 49 | 48 | 3.6 | 2.5 | 6.8 | 23 | C |
| 10 | 621 | 65.5 | 380 | L | 26.9 | -22 | 82 | 2.0 | 14.6 | -2.7 | 22 | C |
| 11 | 630 | 26.8 | 394 | L | 40.1 | 44 | 264 | -3.2 | -33.4 | 21.7 | 2 | C |
| 12 | 521 | 10.1 | 222 | L | 38.7 | 58 | 295 | 8.1 | -23.6 | 27.3 | 11 | C |
| 13 | 699 | 27.7 | 114 | C | 33.9 | 54 | 345 | 18.9 | -10.6 | 25.4 | 6 | C |
| 14 | 678 | 40.8 | 129 | L | 33.8 | 42 | 14 | 23.6 | 0.4 | 22.8 | 8 | C |
| 15 | 702 | 19.9 | 68 | C | 29.4 | 11 | 37 | 22.6 | 14.5 | 9.9 | 6 | C |
| 16 | 668 | 15.1 | 103 | L | 25.8 | -22 | 44 | 16.8 | 18.2 | -3.5 | 6 | C |
| 17 | 658 | 11.0 | 62 | L | 22.4 | -6 | 30 | 19.0 | 11.0 | 1.8 | 4 | C |
| 18 | 702 | 33.8 | 40 | L | 18.7 | 15 | 12 | 17.6 | 1.3 | 5.8 | 2 | C |
| 19 | 705 | 15.9 | 43 | L | 15.2 | 11 | 14 | 14.4 | 1.8 | 4.1 | 2 | C |
| 20 | 707 | 10.4 | 35 | L | 13.0 | 4 | 15 | 12.5 | 2.4 | 2.6 | 1 | C |
| 21 | 697 | 9.3 | 37 | L | 11.6 | 3 | 13 | 11.2 | 1.9 | 2.0 | 1 | C |
| 22 | 694 | 7.7 | 37 | L | 10.9 | 0 | 15 | 10.5 | 2.4 | 1.6 | 1 | C |
| 23 | 677 | 8.2 | 40 | L | 10.0 | 2 | 20 | 9.4 | 2.6 | 2.1 | 1 | C |
| 24 | 669 | 7.2 | 43 | L | 9.4 | -5 | 23 | 8.6 | 3.5 | 1.3 | 1 | C |

### APR. 6, 1979

96

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 676 | 6.8 | 52 | L | 8.7 | -4 | 22 | 8.0 | 3.1 | 1.3 | 0 | C |
| 2 | 679 | 4.5 | 86 | L | 9.0 | -9 | 26 | 8.0 | 4.0 | 0.8 | 0 | C |
| 3 | 666 | 5.4 | 64 | L | 8.7 | -17 | 23 | 7.7 | 4.0 | -0.7 | 0 | C |
| 4 | 633 | 2.6 | 37 | L | 8.1 | -22 | 22 | 7.0 | 3.8 | -1.5 | 0 | C |
| 5 | 628 | 3.0 | 37 | L | 7.8 | -30 | 27 | 6.0 | 4.3 | -2.3 | 1 | C |
| 6 | 610 | 2.6 | 34 | C | 6.9 | -28 | 36 | 4.9 | 4.5 | -1.8 | 0 | C |
| 7 | 612 | 2.9 | 43 | C | 6.2 | -22 | 37 | 4.5 | 4.0 | -1.2 | 1 | C |
| 8 | 627 | 2.3 | 50 | C | 6.0 | -2 | 18 | 5.5 | 1.8 | 0.3 | 1 | C |
| 9 | 625 | 2.2 | 46 | C | 6.2 | 17 | 354 | 5.8 | -1.0 | 1.6 | 1 | C |
| 10 | 620 | 2.7 | 42 | C | 6.6 | 30 | 0 | 5.7 | -0.6 | 3.2 | 1 | C |
| 11 | 612 | 2.6 | 36 | C | 6.8 | 32 | 10 | 5.6 | 0.3 | 3.8 | 0 | C |
| 12 | 615 | 2.3 | 47 | C | 6.7 | 27 | 24 | 5.5 | 1.8 | 3.4 | 0 | C |
| 13 | 636 | 1.7 | 112 | C | 6.9 | 8 | 51 | 4.0 | 4.6 | 1.9 | 2 | C |
| 14 | 612 | 1.9 | 164 | C | 6.3 | -6 | 89 | 0.1 | 5.8 | 0.8 | 2 | C |
| 15 | 570 | 2.0 | 185 | C | 7.2 | -17 | 126 | -2.9 | 4.2 | -0.3 | 5 | C |
| 16 | 586 | 2.3 | 157 | C | 8.5 | -13 | 108 | -2.4 | 7.7 | 0.7 | 2 | C |
| 17 | 566 | 2.4 | 157 | C | 8.5 | -17 | 119 | -3.6 | 6.9 | 0.3 | 3 | C |
| 18 | 559 | 2.4 | 155 | C | 8.6 | -6 | 117 | -3.6 | 6.7 | 2.2 | 2 | C |
| 19 | 580 | 2.6 | 157 | C | 8.9 | -11 | 105 | -2.1 | 7.7 | 2.2 | 3 | C |
| 20 | 567 | 2.6 | 125 | C | 9.2 | -8 | 110 | -3.0 | 7.4 | 3.0 | 3 | C |
| 21 | 528 | 2.5 | 68 | C | 9.2 | -21 | 104 | -2.0 | 8.4 | 1.6 | 2 | C |
| 22 | 547 | 2.8 | 83 | C |  |  |  |  |  |  |  |  |
| 23 | 521 | 2.2 | 72 | C | 8.4 | -28 | 104 | -1.7 | 8.1 | 0.8 | 1 | C |
| 24 | 513 | 1.9 | 69 | C | 8.4 | -29 | 110 | -2.5 | 7.9 | 0.5 | 1 | C |

### APR. 7, 1979

97

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 509 | 3.2 | 55 | C | 7.7 | 13 | 109 | -2.0 | 4.1 | 4.3 | 4 | C |
| 2 | 523 | 3.4 | 54 | C | 7.9 | 13 | 115 | -1.9 | 5.2 | 5.1 | 2 | C |
| 3 | 496 | 3.1 | 51 | C | 7.3 | -6 | 114 | -2.9 | 6.0 | 2.5 | 1 | C |
| 4 | 485 | 3.2 | 43 | C | 7.4 | -16 | 124 | -3.8 | 5.9 | 0.7 | 2 | C |
| 5 | 483 | 2.8 | 43 | C | 7.6 | -34 | 128 | -3.8 | 6.1 | -2.0 | 1 | C |
| 6 | 473 | 2.9 | 47 | C | 7.2 | -41 | 165 | -4.9 | 2.8 | -3.7 | 2 | C |
| 7 | 523 | 3.3 | 50 | C | 7.0 | -34 | 87 | 0.3 | 6.3 | -1.9 | 1 | C |
| 8 | 492 | 3.0 | 53 | C | 6.7 | -28 | 120 | -2.7 | 5.4 | -1.6 | 1 | C |
| 9 | 495 | 3.0 | 49 | C | 6.5 | -34 | 121 | -2.6 | 5.1 | -2.4 | 2 | C |
| 10 | 484 | 3.1 | 42 | C | 6.1 | -38 | 135 | -3.3 | 4.0 | -2.9 | 1 | C |
| 11 | 478 | 2.9 | 35 | C | 5.6 | 5 | 129 | -3.3 | 3.9 | 1.3 | 2 | C |
| 12 | 476 | 2.9 | 47 | C | 5.3 | 9 | 133 | -2.9 | 3.0 | 1.2 | 3 | C |
| 13 | 489 | 2.3 | 46 | C | 5.1 | 46 | 180 | -3.5 | -0.7 | 3.5 | 1 | C |
| 14 | 519 | 2.8 | 41 | C | 4.9 | 62 | 245 | -0.9 | -2.8 | 3.4 | 2 | C |
| 15 | 520 | 2.6 | 54 | C | 5.3 | 53 | 250 | -1.1 | -4.0 | 3.2 | 1 | C |
| 16 | 507 | 3.0 | 46 | C | 5.0 | 44 | 260 | -0.6 | -4.1 | 2.0 | 2 | C |
| 17 | 494 | 3.1 | 46 | C | 5.6 | 22 | 235 | -2.7 | -4.3 | 0.4 | 2 | C |
| 18 | 489 | 3.1 | 66 | C | 4.7 | 2 | 253 | -1.2 | -3.6 | -1.5 | 2 | C |
| 19 | 486 | 2.7 | 64 | C | 5.2 | 36 | 228 | -2.7 | -4.1 | 1.2 | 1 | C |
| 20 | 475 | 2.5 | 80 | C | 6.1 | 26 | 198 | -5.2 | -2.8 | 1.4 | 1 | C |
| 21 | 445 | 3.6 | 56 | C | 5.5 | -9 | 188 | -4.7 | -0.2 | -1.0 | 2 | C |
| 22 | 442 | 3.9 | 57 | C | 5.5 | -24 | 194 | -4.2 | 0.2 | -2.2 | 2 | C |
| 23 | 419 | 3.7 | 52 | C | 5.3 | -10 | 186 | -5.1 | 0.1 | -1.0 | 1 | C |
| 24 | 426 | 4.3 | 46 | C | 6.1 | 4 | 180 | -5.9 | -0.2 | 0.3 | 2 | C |

### APR. 8, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 4.5 | 52 | C | 6.3 | 29 | 174 | -5.2 | -1.1 | 2.7 | 2 | C |
| 2 | 435 | 4.5 | 44 | C | 6.6 | 19 | 150 | -5.2 | 1.5 | 3.2 | 2 | C |
| 3 | 434 | 4.5 | 49 | C | 6.4 | 20 | 137 | -4.1 | 2.4 | 3.6 | 2 | C |
| 4 | 428 | 3.5 | 52 | C | 6.7 | -16 | 148 | -5.4 | 3.9 | -0.2 | 1 | C |
| 5 | 456 | 7.3 | 17 | C | 5.7 | 33 | 272 | 0.1 | -5.5 | 1.0 | 1 | C |
| 6 | 457 | 7.3 | 26 | C | 5.4 | 24 | 284 | 1.0 | -4.6 | 0.4 | 3 | C |
| 7 | 456 | 6.0 | 31 | C | 5.3 | 22 | 297 | 2.1 | -4.6 | 0.6 | 2 | C |
| 8 | 442 | 6.2 | 25 | C | 5.3 | 2 | 267 | -0.2 | -5.0 | -1.1 | 1 | C |
| 9 | 434 | 6.6 | 25 | C | 4.6 | 5 | 265 | -0.4 | -4.5 | -0.6 | 1 | C |
| 10 | 440 | 5.4 | 35 | C | 4.6 | 1 | 264 | -0.5 | -4.1 | -0.7 | 1 | C |
| 11 | 401 | 3.6 | 49 | C | 5.4 | -11 | 177 | -4.6 | 0.4 | -0.8 | 2 | C |
| 12 | 389 | 3.4 | 33 | C | 5.4 | -9 | 173 | -5.1 | 0.8 | -0.7 | 1 | C |
| 13 | 398 | 4.3 | 47 | C | 5.5 | 5 | 151 | -4.7 | 2.4 | 1.0 | 1 | C |
| 14 | 402 | 4.5 | 49 | C | 4.9 | -9 | 158 | -4.2 | 1.8 | -0.3 | 1 | C |
| 15 | 407 | 5.1 | 51 | C | 4.5 | 8 | 156 | -4.0 | 1.5 | 1.1 | 0 | C |
| 16 | 423 | 6.0 | 51 | C | 4.7 | 22 | 197 | -3.4 | -1.4 | 1.0 | 3 | C |
| 17 | 424 | 6.7 | 29 | C | 5.7 | 5 | 266 | -0.3 | -4.9 | -1.5 | 2 | C |
| 18 | 411 | 9.2 | 20 | C | 5.9 | 9 | 279 | 0.9 | -5.5 | -1.6 | 1 | C |
| 19 | 419 | 10.5 | 20 | C | 6.8 | 16 | 276 | 0.7 | -6.6 | -1.4 | 1 | C |
| 20 | 422 | 10.6 | 15 | C | 7.4 | 8 | 277 | 0.9 | -6.7 | -2.7 | 1 | C |
| 21 | 418 | 8.2 | 17 | C | 8.2 | 1 | 279 | 1.3 | -6.8 | -4.1 | 1 | C |
| 22 | 415 | 7.5 | 17 | C | 8.8 | 14 | 280 | 1.5 | -8.1 | -2.8 | 1 | C |
| 23 | 411 | 7.1 | 18 | C | 9.3 | 14 | 282 | 1.8 | -8.5 | -3.0 | 1 | C |
| 24 | 403 | 8.0 | 24 | C | 9.4 | 25 | 290 | 2.8 | -8.6 | -1.1 | 2 | C |

### APR. 9, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 410 | 8.1 | 22 | C | 9.5 | 3 | 291 | 3.4 | -7.6 | -4.3 | 1 | C |
| 2 | 405 | 7.3 | 29 | C | 9.8 | -2 | 296 | 4.3 | -7.2 | -4.7 | 2 | C |
| 3 | 402 | 6.4 | 34 | C | 10.3 | 1 | 297 | 4.6 | -8.0 | -4.2 | 2 | C |
| 4 | 414 | 8.8 | 24 | C | 9.9 | 33 | 284 | 1.9 | -9.5 | 1.4 | 1 | C |
| 5 | 402 | 5.1 | 23 | C | 10.8 | 52 | 267 | -0.4 | -9.4 | 5.3 | 0 | C |
| 6 | 395 | 4.5 | 17 | C | 11.1 | 56 | 260 | -1.1 | -8.9 | 6.6 | 0 | C |
| 7 | 399 | 5.3 | 17 | C | 10.8 | 59 | 263 | -0.7 | -7.9 | 7.3 | 1 | C |
| 8 | 400 | 6.2 | 21 | C | 10.3 | 63 | 266 | -0.3 | -6.8 | 7.7 | 0 | C |
| 9 | 400 | 3.2 | 33 | C | 9.6 | 65 | 265 | -0.3 | -5.6 | 7.3 | 3 | C |
| 10 | 395 | 5.5 | 49 | C | 9.1 | 72 | 254 | -0.8 | -4.3 | 7.9 | 1 | C |
| 11 | 393 | 5.4 | 44 | C | 8.7 | 78 | 274 | 0.1 | -3.3 | 7.9 | 1 | C |
| 12 | 387 | 5.7 | 38 | C | 8.1 | 62 | 278 | 0.5 | -5.0 | 6.2 | 2 | C |
| 13 | 392 | 5.9 | 63 | C | 7.9 | 31 | 214 | -5.1 | -4.1 | 2.9 | 3 | C |
| 14 | 383 | 6.9 | 47 | C | 8.4 | 47 | 202 | -5.0 | -3.3 | 5.2 | 2 | C |
| 15 | 377 | 7.7 | 42 | C | 8.5 | 56 | 182 | -4.6 | -2.1 | 6.7 | 1 | C |
| 16 | 372 | 7.7 | 45 | C | 8.2 | 42 | 139 | -4.4 | 1.9 | 6.1 | 3 | C |
| 17 | 369 | 8.5 | 44 | C | 8.0 | 44 | 145 | -4.4 | 1.0 | 5.8 | 3 | C |
| 18 | 367 | 9.6 | 48 | C | 8.0 | 52 | 150 | -4.1 | -0.4 | 6.4 | 2 | C |
| 19 | 374 | 8.9 | 39 | C | 8.5 | 62 | 146 | -2.9 | -1.3 | 6.8 | 3 | C |
| 20 | 377 | 9.1 | 35 | C | 9.4 | 17 | 113 | -3.3 | 5.3 | 6.1 | 4 | C |
| 21 | 379 | 8.6 | 35 | C | 10.2 | -10 | 109 | -3.2 | 8.8 | 3.5 | 2 | C |
| 22 | 374 | 12.0 | 30 | C | 9.8 | 9 | 107 | -2.7 | 6.4 | 5.9 | 3 | C |
| 23 | 382 | 11.0 | 36 | C | 9.6 | 49 | 102 | -1.2 | 1.0 | 8.9 | 3 | C |
| 24 | 386 | 11.4 | 44 | C | 9.1 | 54 | 75 | 1.3 | 0.3 | 8.2 | 3 | C |

### APR. 10, 1979

100

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 11.3 | 52 | C | 8.8 | 57 | 95 | -0.3 | 0.1 | 7.6 | 3 | C |
| 2 | 383 | 11.3 | 76 | C | 7.6 | 16 | 95 | -0.5 | 4.2 | 4.4 | 4 | C |
| 3 | 379 | 11.4 | 69 | C | 8.1 | 4 | 112 | -2.5 | 5.1 | 3.3 | 4 | C |
| 4 | 374 | 11.1 | 72 | C | 7.3 | -14 | 125 | -3.2 | 4.7 | 0.7 | 4 | C |
| 5 | 373 | 10.9 | 69 | C | 8.3 | -63 | 169 | -3.6 | 3.4 | -6.3 | 2 | C |
| 6 | 378 | 10.4 | 78 | C | 8.7 | 19 | 122 | -3.2 | 4.1 | 3.6 | 6 | C |
| 7 | 367 | 9.4 | 90 | C | 7.6 | -10 | 125 | -3.4 | 5.0 | 0.4 | 4 | C |
| 8 | 383 | 9.2 | 126 | C | 7.1 | -25 | 188 | -4.7 | -0.1 | -2.3 | 4 | C |
| 9 | 399 | 9.2 | 146 | C | 7.7 | -19 | 171 | -5.6 | 1.3 | -1.7 | 4 | C |
| 10 | 412 | 9.6 | 122 | C | 7.6 | -12 | 155 | -5.7 | 2.9 | -0.8 | 4 | C |
| 11 | 401 | 9.9 | 99 | C | 9.8 | 2 | 140 | -7.4 | 6.0 | 1.5 | 2 | C |
| 12 | 376 | 10.1 | 62 | C | 11.1 | -28 | 150 | -8.5 | 5.7 | -4.2 | 1 | C |
| 13 | 384 | 11.0 | 57 | C | 10.7 | -29 | 141 | -7.2 | 6.7 | -3.9 | 2 | C |
| 14 | 392 | 14.1 | 53 | C | 9.6 | -24 | 133 | -5.4 | 6.4 | -2.0 | 4 | C |
| 15 | 389 | 14.9 | 55 | C | 9.2 | -29 | 133 | -5.2 | 6.5 | -2.5 | 3 | C |
| 16 | 396 | 16.1 | 58 | C | 9.4 | 29 | 108 | -1.8 | 4.2 | 4.8 | 6 | C |
| 17 | 410 | 16.2 | 56 | C | 8.8 | 43 | 42 | 4.3 | 1.6 | 6.5 | 3 | C |
| 18 | 405 | 12.6 | 98 | C | 7.6 | 50 | 128 | -1.3 | 0.5 | 3.0 | 7 | C |
| 19 | 415 | 8.8 | 148 | C | 7.0 | -1 | 275 | 0.4 | -4.2 | -2.3 | 5 | C |
| 20 | 408 | 7.5 | 153 | C | 7.8 | -21 | 142 | -4.9 | 4.4 | -0.1 | 4 | C |
| 21 | 450 | 5.1 | 150 | C | 9.5 | -19 | 149 | -7.6 | 5.5 | -0.1 | 2 | C |
| 22 | 463 | 4.9 | 161 | C | 8.7 | 1 | 120 | -3.7 | 5.1 | 3.6 | 4 | C |
| 23 | 473 | 5.3 | 152 | C | 8.5 | 18 | 108 | -2.3 | 4.5 | 5.9 | 3 | C |
| 24 | 457 | 4.8 | 144 | C | 9.0 | 5 | 125 | -5.0 | 5.5 | 4.5 | 2 | C |

### APR. 11, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 446 | 5.6 | 132 | C | 9.0 | 19 | 147 | -6.7 | 2.2 | 4.6 | 3 | C |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 467 | 8.5 | 95 | C | 8.4 | 35 | 64 | 2.6 | 4.0 | 5.5 | 3 | C |
| 8 | 446 | 7.7 | 97 | C | 8.4 | 10 | 104 | -1.9 | 6.8 | 3.1 | 2 | C |
| 9 | 432 | 7.8 | 91 | C | 8.0 | 20 | 122 | -2.8 | 3.9 | 2.8 | 5 | C |
| 10 | 448 | 7.7 | 88 | C | 8.4 | 50 | 94 | -0.3 | 3.2 | 5.9 | 5 | C |
| 11 | 431 | 7.4 | 91 | C | 8.0 | 12 | 113 | -2.8 | 6.1 | 2.6 | 2 | C |
| 12 | 417 | 7.5 | 81 | C | 8.6 | -5 | 127 | -4.7 | 6.3 | 0.5 | 3 | C |
| 13 | 397 | 6.6 | 62 | C | 9.1 | -11 | 141 | -6.8 | 5.7 | -0.6 | 2 | C |
| 14 | 396 | 6.3 | 55 | C | 9.4 | -20 | 140 | -6.7 | 6.2 | -1.8 | 1 | C |
| 15 | 394 | 6.1 | 49 | C | 9.5 | -17 | 139 | -6.8 | 6.4 | -1.2 | 1 | C |
| 16 | 404 | 6.6 | 66 | C | 8.7 | -25 | 133 | -5.0 | 6.1 | -1.6 | 3 | C |
| 17 | 400 | 7.4 | 76 | C | 9.3 | -22 | 152 | -7.3 | 4.9 | -1.7 | 2 | C |
| 18 | 397 | 7.2 | 72 | C | 9.2 | 19 | 184 | -7.3 | -1.5 | 2.1 | 5 | C |
| 19 | 402 | 7.4 | 72 | C | 9.3 | 41 | 184 | -6.3 | -3.0 | 4.7 | 3 | C |
| 20 | 406 | 9.1 | 77 | J | 9.7 | 54 | 187 | -4.6 | -3.6 | 5.2 | 5 | C |
| 21 | 385 | 8.8 | 57 | J | 9.3 | 3 | 152 | -7.7 | 3.2 | 2.5 | 2 | J |
| 22 | 379 | 8.8 | 57 | J | 9.9 | -19 | 148 | -7.6 | 5.7 | 0.0 | 2 | J |
| 23 | 379 | 8.4 | 53 | J | 10.1 | -22 | 151 | -7.6 | 5.5 | -0.6 | 3 | J |
| 24 | 399 | 7.9 | 69 | C | 10.5 | -4 | 120 | -5.0 | 7.7 | 4.3 | 2 | C |

### APR. 12, 1979

102

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 377 | 7.5 | 57 | C | 11.1 | -19 | 133 | -7.1 | 8.4 | 1.0 | 1 | C |
| 2 | 378 | 7.2 | 51 | C | 11.3 | -28 | 136 | -6.9 | 8.3 | -0.9 | 2 | C |
| 3 | 386 | 8.3 | 59 | J | 11.6 | -29 | 138 | -7.4 | 8.5 | -1.7 | 1 | J |
| 4 | 392 | 9.4 | 64 | J | 10.8 | 2 | 141 | -7.8 | 5.5 | 3.0 | 4 | J |
| 5 | 393 | 10.5 | 64 | J | 10.0 | 5 | 165 | -9.2 | 2.0 | 1.7 | 3 | J |
| 6 | 448 | 12.1 | 108 | J | 9.4 | -81 | 127 | -0.9 | 4.1 | -8.3 | 1 | J |
| 7 | 427 | 12.5 | 108 | J | 10.1 | 1 | 124 | -4.8 | 6.7 | 2.2 | 5 | J |
| 8 | 418 | 11.2 | 76 | J | 10.4 | 21 | 133 | -6.3 | 5.7 | 5.1 | 3 | J |
| 9 | 439 | 11.0 | 130 | J | 10.6 | -17 | 125 | -5.0 | 7.5 | -1.1 | 5 | J |
| 10 | 434 | 8.6 | 107 | J | 11.9 | 14 | 123 | -5.8 | 8.3 | 4.3 | 4 | J |
| 11 | 446 | 10.6 | 114 | J | 10.4 | -15 | 120 | -4.3 | 7.6 | -0.9 | 5 | J |
| 12 | 430 | 10.3 | 116 | J | 10.3 | 28 | 136 | -6.3 | 5.1 | 5.7 | 2 | J |
| 13 | 435 | 11.2 | 124 | J | 10.1 | 25 | 134 | -5.7 | 5.1 | 4.9 | 4 | J |
| 14 | 418 | 9.7 | 66 | J | 9.3 | -4 | 154 | -7.7 | 3.8 | 0.3 | 3 | J |
| 15 | 427 | 10.6 | 93 | J | 9.4 | -21 | 145 | -6.4 | 5.1 | -1.7 | 4 | J |
| 16 | 444 | 9.3 | 119 | J | 9.4 | -19 | 126 | -4.7 | 7.0 | -0.6 | 4 | J |
| 17 | 435 | 8.0 | 150 | J | 9.8 | 13 | 125 | -5.2 | 6.2 | 4.6 | 3 | J |
| 18 | 448 | 9.3 | 242 | J | 9.7 | 18 | 120 | -4.4 | 5.7 | 5.7 | 3 | J |
| 19 | 429 | 7.4 | 107 | C | 8.9 | -9 | 157 | -6.6 | 3.1 | 0.3 | 4 | C |
| 20 | 424 | 9.0 | 107 | J | 8.6 | 20 | 142 | -6.2 | 2.8 | 4.9 | 1 | J |
| 21 | 425 | 8.8 | 104 | J | 8.9 | 24 | 147 | -6.2 | 1.7 | 4.9 | 4 | J |
| 22 | 434 | 8.5 | 112 | J | 9.4 | -3 | 139 | -6.1 | 4.7 | 2.5 | 5 | J |
| 23 | 460 | 8.3 | 160 | J | 8.9 | -42 | 146 | -4.6 | 5.4 | -2.5 | 5 | J |
| 24 | 457 | 7.4 | 115 | J | 9.0 | -38 | 147 | -5.9 | 6.3 | -2.5 | 1 | J |

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APR. 13, 1979 103

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 449 | 6.6 | 110 | C | 8.5 | 39 | 146 | -4.6 | 0.3 | 5.5 | 4 | C |
| 2 | 460 | 5.4 | 107 | C | 9.0 | 16 | 136 | -5.8 | 3.6 | 4.8 | 3 | C |
| 3 | 474 | 5.1 | 110 | C | 9.1 | -7 | 129 | -5.5 | 6.6 | 2.3 | 1 | C |
| 4 | 475 | 5.5 | 156 | C | 8.7 | -13 | 135 | -5.8 | 6.1 | 0.8 | 1 | C |
| 5 | 468 | 4.2 | 93 | C | 9.4 | -3 | 142 | -7.1 | 5.3 | 1.7 | 2 | C |
| 6 | 471 | 4.5 | 112 | C | 9.1 | -11 | 142 | -6.5 | 5.4 | 0.2 | 2 | C |
| 7 | 471 | 4.3 | 103 | C | 8.6 | -22 | 151 | -6.2 | 4.1 | -1.8 | 3 | C |
| 8 | 466 | 4.2 | 99 | C | 8.5 | -21 | 147 | -6.4 | 4.8 | -1.8 | 1 | C |
| 9 | 499 | 4.2 | 107 | C | 9.1 | -6 | 121 | -4.3 | 7.2 | 0.7 | 3 | C |
| 10 | 497 | 4.1 | 114 | C | 8.8 | 31 | 126 | -4.2 | 4.9 | 5.4 | 2 | C |
| 11 | 497 | 4.1 | 88 | J | 8.8 | -2 | 131 | -5.4 | 6.2 | 0.8 | 3 | J |
| 12 | 500 | 3.8 | 72 | J | 8.4 | -19 | 131 | -4.9 | 6.0 | -1.5 | 3 | J |
| 13 | 516 | 4.0 | 89 | J | 8.1 | -36 | 145 | -5.0 | 4.3 | -3.7 | 3 | J |
| 14 | 515 | 4.2 | 104 | J | 8.0 | -11 | 126 | -3.6 | 5.1 | -0.1 | 5 | J |
| 15 | 498 | 4.2 | 74 | J | 8.0 | 3 | 149 | -6.0 | 3.4 | 1.3 | 4 | J |
| 16 | 515 | 4.4 | 84 | J | 8.0 | -26 | 134 | -4.6 | 5.5 | -1.6 | 3 | J |
| 17 | 515 | 4.6 | 78 | J | 7.9 | -15 | 125 | -4.1 | 6.2 | 0.3 | 2 | J |
| 18 | 495 | 4.6 | 83 | J | 7.5 | -15 | 153 | -5.8 | 3.4 | -0.4 | 3 | J |
| 19 | 489 | 4.8 | 91 | J | 7.5 | 3 | 147 | -5.8 | 3.2 | 2.0 | 3 | J |
| 20 | 483 | 4.7 | 91 | J | 7.2 | 14 | 150 | -5.5 | 2.0 | 3.0 | 3 | J |
| 21 | 479 | 4.6 | 100 | J | 6.6 | 4 | 162 | -5.4 | 1.3 | 1.3 | 3 | J |
| 22 | 496 | 5.2 | 104 | J | 7.2 | -1 | 146 | -4.7 | 2.7 | 1.6 | 4 | J |
| 23 | 490 | 5.0 | 83 | J | 7.1 | -3 | 141 | -4.8 | 3.4 | 1.9 | 3 | J |
| 24 | 498 | 4.3 | 87 | C | 7.3 | 16 | 129 | -3.8 | 3.0 | 4.0 | 3 | C |

APR. 14, 1979 104

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 491 | 4.2 | 78 | C | 7.0 | 18 | 131 | -3.3 | 2.3 | 3.4 | 4 | C |
| 2 | 477 | 4.4 | 78 | C | 6.7 | -4 | 150 | -5.3 | 2.9 | 1.1 | 2 | C |
| 3 | 465 | 4.5 | 71 | C | 6.8 | 3 | 164 | -6.4 | 1.4 | 1.2 | 1 | C |
| 4 | 463 | 4.4 | 79 | C | 6.8 | -3 | 142 | -5.2 | 3.8 | 1.4 | 1 | C |
| 5 | 467 | 5.4 | 75 | C | 7.1 | 20 | 139 | -4.4 | 2.8 | 3.4 | 2 | C |
| 6 | 456 | 5.3 | 76 | C | 7.1 | 2 | 160 | -5.3 | 1.8 | 0.8 | 4 | C |
| 7 | 451 | 5.6 | 49 | J | 6.8 | 14 | 165 | -6.1 | 1.1 | 2.0 | 2 | J |
| 8 | 441 | 5.7 | 49 | J | 7.2 | -1 | 166 | -6.6 | 1.6 | 0.3 | 2 | J |
| 9 | 446 | 6.4 | 48 | J | 7.7 | -3 | 157 | -6.8 | 2.9 | 0.2 | 2 | J |
| 10 | 448 | 7.0 | 59 | J | 8.2 | -12 | 165 | -7.3 | 2.2 | -1.2 | 3 | J |
| 11 | 462 | 7.8 | 69 | J | 8.1 | 20 | 146 | -5.8 | 3.4 | 3.2 | 3 | J |
| 12 | 481 | 7.6 | 92 | J | 7.9 | -9 | 130 | -4.6 | 5.6 | -0.1 | 3 | J |
| 13 | 481 | 7.7 | 118 | J | 7.6 | 8 | 136 | -4.8 | 4.3 | 1.8 | 3 | J |
| 14 | 484 | 7.9 | 159 | J | 6.9 | 3 | 134 | -4.4 | 4.3 | 1.3 | 3 | J |
| 15 | 506 | 8.8 | 200 | J | 5.6 | 26 | 188 | -2.5 | -0.7 | 1.1 | 5 | J |
| 16 | 538 | 8.6 | 156 | J | 6.1 | -6 | 295 | 2.2 | -4.4 | -2.0 | 3 | J |
| 17 | 512 | 8.5 | 147 | J | 5.9 | -4 | 243 | -1.8 | -3.2 | -1.5 | 4 | J |
| 18 | 506 | 8.6 | 143 | J | 6.3 | -18 | 231 | -2.7 | -2.5 | -2.6 | 4 | J |
| 19 | 528 | 8.8 | 127 | J | 7.2 | 62 | 224 | -0.7 | -1.5 | 1.3 | 7 | J |
| 20 | 515 | 9.6 | 124 | J | 8.5 | 8 | 112 | -3.0 | 6.0 | 4.7 | 2 | J |
| 21 | 505 | 9.3 | 132 | J | 7.7 | -12 | 134 | -4.3 | 4.5 | 1.2 | 4 | J |
| 22 | 518 | 9.4 | 138 | J | 7.7 | -51 | 236 | -2.3 | -0.1 | -6.1 | 4 | J |
| 23 | 501 | 9.3 | 122 | J | 7.2 | -14 | 159 | -5.2 | 2.4 | -0.1 | 4 | J |
| 24 | 522 | 9.5 | 153 | J | 6.8 | -7 | 116 | -2.2 | 4.1 | 1.9 | 5 | J |

APR. 15, 1979 105

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 524 | 8.8 | 132 | J | 7.3 | -27 | 213 | -3.0 | -0.7 | -2.6 | 6 | J |
| 2 | 508 | 8.7 | 122 | J | 7.0 | 3 | 221 | -4.7 | -3.7 | -1.8 | 3 | J |
| 3 | 520 | 9.1 | 160 | J | 7.1 | 16 | 247 | -2.4 | -5.7 | -1.0 | 3 | J |
| 4 | 492 | 4.9 | 96 | C | 8.5 | 10 | 152 | -6.9 | 2.7 | 2.8 | 3 | C |
| 5 | 504 | 2.9 | 88 | C | 8.6 | 5 | 158 | -7.9 | 2.7 | 1.9 | 1 | C |
| 6 | 513 | 2.9 | 91 | C | 8.6 | 8 | 153 | -7.5 | 3.3 | 2.4 | 1 | C |
| 7 | 541 | 3.7 | 130 | J | 8.1 | 9 | 154 | -6.6 | 2.8 | 2.0 | 3 | J |
| 8 | 535 | 3.6 | 125 | J | 8.2 | 8 | 145 | -6.6 | 4.2 | 2.2 | 2 | J |
| 9 | 528 | 3.7 | 102 | J | 8.3 | -3 | 155 | -7.1 | 3.3 | 0.3 | 3 | J |
| 10 | 562 | 3.9 | 115 | J | 8.7 | 25 | 128 | -4.4 | 4.9 | 4.3 | 4 | J |
| 11 | 551 | 3.8 | 97 | J | 8.5 | 25 | 133 | -4.8 | 4.5 | 4.1 | 3 | J |
| 12 | 529 | 3.8 | 99 | J | 8.1 | 13 | 152 | -6.2 | 3.0 | 2.2 | 4 | J |
| 13 | 535 | 4.1 | 85 | J | 8.1 | 23 | 154 | -6.0 | 2.3 | 3.3 | 4 | J |
| 14 | 538 | 4.4 | 114 | J | 7.9 | -16 | 152 | -6.5 | 3.8 | -1.3 | 2 | J |
| 15 | 552 | 4.3 | 119 | J | 7.9 | -27 | 146 | -5.0 | 4.1 | -2.1 | 4 | J |
| 16 | 534 | 4.4 | 111 | J | 7.9 | 0 | 147 | -5.9 | 3.6 | 1.2 | 4 | J |
| 17 | 516 | 4.1 | 53 | J | 7.9 | -12 | 172 | -7.0 | 1.4 | -1.0 | 3 | J |
| 18 | 523 | 4.1 | 77 | J | 7.5 | -14 | 151 | -5.9 | 3.6 | -0.2 | 3 | J |
| 19 | 573 | 4.6 | 102 | J | 7.3 | 12 | 128 | -3.7 | 3.6 | 3.3 | 4 | J |
| 20 | 566 | 5.1 | 131 | J | 7.2 | 26 | 144 | -4.4 | 1.5 | 3.8 | 4 | J |
| 21 | 557 | 5.1 | 105 | J | 7.1 | -19 | 164 | -6.0 | 2.6 | -0.9 | 2 | J |
| 22 | 565 | 5.1 | 115 | J | 6.8 | -9 | 177 | -5.2 | 0.7 | -0.6 | 4 | J |
| 23 | 578 | 5.7 | 159 | J | 7.2 | 6 | 134 | -3.5 | 2.8 | 2.4 | 5 | J |
| 24 | 595 | 6.1 | 180 | J | 7.2 | -1 | 116 | -2.4 | 4.1 | 2.5 | 4 | J |

APR. 16, 1979 106

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 575 | 6.1 | 165 | J | 6.7 | 0 | 145 | -4.0 | 2.4 | 1.5 | 5 | J |
| 2 | 587 | 5.7 | 127 | J | 7.1 | -39 | 160 | -4.3 | 3.2 | -2.4 | 4 | J |
| 3 | 587 | 6.0 | 118 | J | 7.3 | -51 | 195 | -4.0 | 1.4 | -5.0 | 3 | J |
| 4 | 602 | 5.8 | 145 | J | 6.8 | -52 | 206 | -2.7 | 0.4 | -4.0 | 5 | J |
| 5 | 599 | 4.7 | 191 | J | 7.1 | 7 | 137 | -4.7 | 3.8 | 2.4 | 3 | J |
| 6 | 614 | 4.9 | 195 | J | 7.3 | 0 | 114 | -2.8 | 6.1 | 2.1 | 2 | J |
| 7 | 615 | 6.0 | 151 | J | 6.8 | 74 | 91 | -0.0 | 0.0 | 4.0 | 5 | J |
| 8 | 601 | 5.5 | 214 | J | 6.6 | 14 | 146 | -2.9 | 1.7 | 1.3 | 6 | J |
| 9 | 598 | 4.5 | 104 | J | 7.5 | 5 | 133 | -4.2 | 4.3 | 1.4 | 4 | J |
| 10 | 614 | 4.3 | 185 | J | 6.6 | -3 | 128 | -3.8 | 4.9 | 0.5 | 3 | J |
| 11 | 635 | 3.8 | 192 | J | 4.9 | 71 | 113 | -0.4 | 0.5 | 3.3 | 3 | C |
| 12 | 677 | 3.6 | 195 | J | 4.9 | 17 | 330 | 3.1 | -1.9 | 0.8 | 3 | J |
| 13 | 655 | 3.4 | 178 | J | 3.9 | 41 | 313 | 0.7 | -0.9 | 0.7 | 4 | J |
| 14 | 601 | 3.4 | 140 | J | 6.1 | 22 | 141 | -4.0 | 2.7 | 2.7 | 3 | J |
| 15 | 592 | 2.4 | 99 | J | 6.4 | 8 | 133 | -3.8 | 3.8 | 1.8 | 3 | J |
| 16 | 577 | 2.2 | 167 | L | 6.0 | 18 | 136 | -3.9 | 3.1 | 2.8 | 2 | J |
| 17 | 617 | 1.7 | 69 | J | 6.3 | -5 | 125 | -3.1 | 4.3 | 1.1 | 3 | J |
| 18 | 609 | 1.7 | 86 | J | 6.2 | -19 | 138 | -4.2 | 4.3 | -0.2 | 2 | J |
| 19 | 613 | 1.5 | 76 | J | 6.2 | -13 | 139 | -4.3 | 4.0 | 0.5 | 2 | J |
| 20 | 614 | 2.2 | 170 | L | 6.4 | 36 | 103 | -1.1 | 2.4 | 5.5 | 2 | J |
| 21 | 626 | 2.0 | 105 | J | 6.5 | 45 | 108 | -1.4 | 1.3 | 5.9 | 2 | J |
| 22 | 624 | 2.0 | 107 | J | 6.8 | 46 | 101 | -0.8 | 1.1 | 5.8 | 3 | J |
| 23 | 642 | 2.0 | 114 | J | 5.9 | 62 | 85 | 0.2 | -0.4 | 4.5 | 4 | J |
| 24 | 609 | 0.9 | 95 | J | 6.0 | -30 | 132 | -3.4 | 4.8 | -0.5 | 1 | J |

APR. 17, 1979 107

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 611 | 1.8 | 302 | L | 5.0 | 7 | 151 | -3.0 | 1.2 | 1.2 | 4 | J |
| 2 | 616 | 2.1 | 292 | L | 5.7 | 62 | 117 | -1.2 | -0.4 | 5.4 | 1 | J |
| 3 | 609 | 1.8 | 240 | C | 5.8 | 13 | 132 | -3.5 | 2.9 | 2.9 | 2 | C |
| 4 | 655 | 2.1 | 356 | J | 3.3 | 23 | 145 | -1.5 | 0.6 | 1.1 | 3 | J |
| 5 | 671 | 2.1 | 343 | J | 3.7 | 17 | 130 | -1.9 | 1.8 | 1.7 | 2 | J |
| 6 | 682 | 2.2 | 286 | J | 4.0 | -39 | 149 | -1.9 | 1.7 | -1.4 | 3 | J |
| 7 | 646 | 2.4 | 229 | J | 3.8 | -26 | 131 | -1.7 | 2.2 | -0.7 | 3 | J |
| 8 | 653 | 2.2 | 223 | J | 4.5 | 0 | 150 | -3.7 | 2.1 | 0.5 | 1 | J |
| 9 | 643 | 2.3 | 248 | L | 4.5 | -6 | 152 | -3.9 | 2.1 | -0.0 | 1 | J |
| 10 | 675 | 1.6 | 167 | J | 4.6 | -20 | 112 | -1.5 | 4.0 | -0.8 | 1 | J |
| 11 | 654 | 1.7 | 157 | J | 3.8 | -21 | 116 | -1.3 | 2.8 | -0.7 | 2 | J |
| 12 | 623 | 1.4 | 101 | J | 3.6 | 8 | 195 | -3.0 | -0.9 | 0.3 | 1 | J |
| 13 | 625 | 1.6 | 161 | J | 4.0 | 10 | 186 | -3.7 | -0.5 | 0.6 | 1 | J |
| 14 | 613 | 2.0 | 199 | J | 3.3 | -5 | 140 | -2.1 | 1.8 | 0.1 | 2 | J |
| 15 | 568 | 2.1 | 209 | L | 4.2 | 6 | 186 | -3.9 | -0.5 | 0.3 | 1 | J |
| 16 | 575 | 1.6 | 103 | J | 4.6 | 13 | 170 | -4.1 | 0.4 | 1.1 | 2 | J |
| 17 | 577 | 1.6 | 84 | J | 4.1 | 1 | 172 | -3.5 | 0.4 | 0.2 | 2 | J |
| 18 | 568 | 2.3 | 201 | L | 4.1 | -3 | 150 | -3.0 | 1.7 | 0.5 | 2 | J |
| 19 | 585 | 2.3 | 113 | J | 3.8 | -54 | 34 | 1.6 | 2.1 | -1.8 | 2 | J |
| 20 | 566 | 2.2 | 133 | J | 3.5 | -73 | 115 | -0.2 | 1.1 | -1.1 | 3 | J |
| 21 | 566 | 2.5 | 134 | J | 3.5 | -24 | 102 | -0.5 | 2.7 | 0.3 | 2 | J |
| 22 | 523 | 2.7 | 130 | J | 3.8 | -7 | 185 | -3.6 | -0.0 | -0.5 | 1 | C |
| 23 | 522 | 2.7 | 120 | J | 4.3 | -17 | 194 | -3.9 | -0.2 | -1.5 | 1 | C |
| 24 | 521 | 2.6 | 101 | J | 3.9 | -22 | 177 | -3.5 | 0.9 | -1.1 | 1 | C |

APR. 18, 1979 108

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 518 | 2.7 | 161 | L | 3.7 | 16 | 174 | -3.2 | -0.2 | 1.0 | 1 | J |
| 2 | 516 | 2.4 | 80 | J | 3.6 | -37 | 168 | -2.6 | 1.5 | -1.5 | 0 | C |
| 3 | 521 | 2.2 | 100 | J | 2.6 | -44 | 103 | -0.3 | 1.7 | -0.5 | 2 | J |
| 4 | 509 | 2.4 | 83 | J | 2.6 | -7 | 153 | -2.0 | 1.1 | 0.2 | 1 | J |
| 5 | 511 | 3.1 | 71 | J | 3.0 | -40 | 68 | 0.8 | 2.4 | -0.9 | 1 | J |
| 6 | 486 | 3.2 | 89 | J | 3.1 | -41 | 122 | -1.2 | 2.4 | -1.2 | 1 | J |
| 7 | 486 | 3.1 | 73 | J | 3.8 | 58 | 200 | -1.8 | -1.4 | 2.7 | 1 | C |
| 8 | 458 | 2.8 | 53 | J | 3.5 | -24 | 156 | -2.1 | 1.2 | -0.8 | 2 | C |
| 9 | 449 | 2.8 | 51 | J | 4.4 | -13 | 173 | -4.1 | 0.7 | -0.8 | 1 | C |
| 10 | 488 | 3.7 | 79 | C | 4.5 | -3 | 120 | -0.9 | 1.5 | 0.2 | 4 | C |
| 11 | 465 | 5.0 | 96 | J | 4.9 | 30 | 148 | -3.0 | 1.5 | 2.4 | 2 | C |
| 12 | 455 | 3.8 | 49 | C | 5.1 | 64 | 144 | -1.8 | 0.5 | 4.6 | 1 | C |
| 13 | 448 | 4.1 | 59 | C | 4.4 | 29 | 135 | -2.2 | 1.8 | 2.1 | 2 | C |
| 14 | 456 | 3.8 | 43 | C | 4.6 | 2 | 116 | -1.1 | 2.3 | 0.6 | 3 | C |
| 15 | 441 | 3.9 | 44 | C | 4.7 | -14 | 118 | -2.0 | 3.9 | -0.1 | 1 | C |
| 16 | 445 | 4.2 | 41 | C | 4.8 | 56 | 132 | -1.4 | 0.6 | 3.4 | 3 | C |
| 17 | 441 | 4.3 | 48 | C | 4.3 | 28 | 104 | -0.7 | 1.9 | 2.2 | 3 | C |
| 18 | 435 | 4.5 | 57 | C | 4.2 | 15 | 136 | -1.7 | 1.3 | 1.3 | 3 | C |
| 19 | 453 | 4.3 | 44 | C | 6.6 | -29 | 95 | -0.4 | 6.2 | -0.3 | 2 | C |
| 20 | 449 | 3.9 | 49 | C | 7.0 | -36 | 85 | 0.4 | 6.9 | -0.9 | 1 | C |
| 21 | 446 | 3.9 | 51 | C | 6.8 | -35 | 89 | 0.1 | 6.5 | -0.4 | 2 | C |
| 22 | 443 | 3.9 | 62 | C | 6.5 | -48 | 90 | 0.0 | 6.0 | -1.7 | 2 | C |
| 23 | 451 | 3.8 | 66 | C | 6.3 | -46 | 78 | 0.8 | 5.7 | -1.4 | 2 | C |
| 24 | 427 | 3.8 | 96 | C | 5.7 | -6 | 116 | -2.2 | 4.2 | 2.0 | 2 | C |

APR. 19, 1979 109

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 426 | 3.7 | 78 | C | 5.9 | 6 | 132 | -3.1 | 2.7 | 2.2 | 3 | C |
| 2 | 439 | 3.7 | 91 | C | 5.3 | 15 | 139 | -3.4 | 2.0 | 2.5 | 2 | C |
| 3 | 453 | 4.1 | 109 | C | 4.3 | -11 | 121 | -1.9 | 3.2 | 0.8 | 2 | C |
| 4 | 446 | 4.1 | 98 | C | 4.1 | -62 | 73 | 0.2 | 1.1 | -0.9 | 4 | C |
| 5 | 447 | 3.7 | 93 | C | 4.7 | -6 | 127 | -1.7 | 2.3 | 0.5 | 4 | C |
| 6 | 457 | 4.2 | 89 | C | 4.7 | -50 | 355 | 2.8 | 0.8 | -3.3 | 2 | C |
| 7 | 447 | 4.1 | 115 | C | 2.9 | -33 | 137 | -0.5 | 0.5 | -0.3 | 3 | C |
| 8 | 444 | 4.0 | 106 | C | 3.9 | 33 | 161 | -2.4 | 0.4 | 1.8 | 3 | C |
| 9 | 452 | 4.1 | 101 | C | 5.0 | 38 | 180 | -3.6 | -0.5 | 2.7 | 2 | C |
| 10 | 453 | 4.3 | 93 | C | 5.2 | 40 | 194 | -3.5 | -1.3 | 2.8 | 2 | C |
| 11 | 446 | 4.3 | 94 | C | 5.3 | 34 | 179 | -4.1 | -0.3 | 2.7 | 2 | C |
| 12 | 438 | 4.5 | 95 | C | 5.7 | 39 | 143 | -3.3 | 1.9 | 3.7 | 2 | C |
| 13 | 436 | 4.0 | 98 | C | 6.2 | 33 | 107 | -1.5 | 4.1 | 4.0 | 1 | C |
| 14 | 442 | 4.7 | 88 | C | 5.5 | 16 | 110 | -1.5 | 3.9 | 2.1 | 3 | C |
| 15 | 429 | 4.3 | 89 | C | 5.4 | -24 | 132 | -3.0 | 3.7 | -1.1 | 1 | C |
| 16 | 442 | 3.8 | 82 | C | 5.2 | -45 | 105 | -0.8 | 3.7 | -2.1 | 3 | C |
| 17 | 436 | 3.9 | 76 | C | 4.4 | -74 | 97 | -0.1 | 2.1 | -2.9 | 3 | C |
| 18 | 420 | 4.0 | 83 | C | 4.2 | -22 | 123 | -1.8 | 3.2 | -0.1 | 2 | C |
| 19 | 417 | 3.8 | 72 | C | 4.1 | 5 | 140 | -3.0 | 2.2 | 1.5 | 1 | C |
| 20 | 412 | 3.9 | 64 | C | 3.6 | -4 | 162 | -3.4 | 1.1 | 0.3 | 1 | C |
| 21 | 408 | 3.6 | 62 | C | 3.4 | -18 | 148 | -2.7 | 2.0 | -0.0 | 1 | C |
| 22 | 394 | 3.6 | 58 | C | 2.8 | -26 | 152 | -2.0 | 1.5 | -0.4 | 1 | C |
| 23 | 385 | 3.9 | 62 | C | 2.7 | -7 | 141 | -1.7 | 1.4 | 0.5 | 1 | C |
| 24 | 390 | 3.5 | 51 | C | 2.9 | -24 | 172 | -2.5 | 0.9 | -0.8 | 1 | C |

APR. 20, 1979 110

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 391 | 3.5 | 52 | C | 2.9 | -7 | 159 | -2.6 | 1.0 | 0.2 | 0 | C |
| 2 | 384 | 3.7 | 54 | C | 2.7 | -6 | 153 | -2.2 | 1.1 | 0.3 | 1 | C |
| 3 |  |  |  |  | 2.9 | -10 | 151 | -2.4 | 1.4 | 0.2 | 1 | C |
| 4 | 384 | 3.4 | 46 | C | 3.3 | 6 | 173 | -3.2 | 0.2 | 0.5 | 0 | C |
| 5 | 380 | 3.9 | 49 | C | 3.4 | 2 | 175 | -3.4 | 0.3 | 0.2 | 0 | C |
| 6 | 376 | 3.8 | 48 | C | 3.3 | 2 | 164 | -3.2 | 0.8 | 0.4 | 0 | C |
| 7 | 374 | 4.0 | 47 | C | 3.1 | 11 | 159 | -2.8 | 0.9 | 0.8 | 0 | C |
| 8 | 371 | 3.8 | 43 | C | 3.5 | 1 | 168 | -3.4 | 0.7 | 0.2 | 0 | C |
| 9 | 370 | 4.0 | 40 | C | 3.5 | 7 | 166 | -3.4 | 0.8 | 0.6 | 0 | C |
| 10 | 371 | 4.1 | 39 | C | 3.8 | 6 | 166 | -3.6 | 0.8 | 0.5 | 0 | C |
| 11 | 364 | 4.6 | 40 | C | 4.1 | 5 | 159 | -3.8 | 1.4 | 0.6 | 0 | C |
| 12 | 363 | 4.7 | 44 | C | 3.8 | 15 | 161 | -3.5 | 1.0 | 1.2 | 0 | C |
| 13 | 359 | 4.7 | 43 | C | 3.7 | 11 | 152 | -3.2 | 1.5 | 1.0 | 0 | C |
| 14 | 357 | 5.0 | 46 | C | 3.8 | 14 | 153 | -3.3 | 1.5 | 1.2 | 1 | C |
| 15 | 358 | 5.6 | 42 | C | 3.7 | 13 | 145 | -2.7 | 1.7 | 1.2 | 1 | C |
| 16 | 351 | 5.9 | 44 | C | 3.6 | 8 | 130 | -2.0 | 2.2 | 1.1 | 2 | C |
| 17 | 346 | 6.7 | 41 | C | 3.4 | 20 | 121 | -1.6 | 2.1 | 1.9 | 1 | C |
| 18 | 345 | 7.0 | 45 | C | 3.2 | 15 | 117 | -1.4 | 2.2 | 1.8 | 1 | C |
| 19 | 342 | 7.2 | 43 | C | 3.9 | 27 | 161 | -3.2 | 0.2 | 2.0 | 1 | C |
| 20 | 341 | 7.0 | 39 | C | 4.1 | -12 | 160 | -2.6 | 1.1 | -0.1 | 3 | C |
| 21 | 345 | 7.9 | 37 | C | 3.8 | -25 | 90 | -0.0 | 3.6 | 0.3 | 1 | C |
| 22 | 344 | 8.1 | 40 | C | 3.3 | -14 | 63 | 1.4 | 2.7 | 0.8 | 1 | C |
| 23 | 329 | 9.5 | 39 | C | 3.7 | -1 | 142 | -2.8 | 1.9 | 1.1 | 1 | C |
| 24 | 332 | 9.1 | 40 | C | 4.3 | -5 | 148 | -3.5 | 2.1 | 0.9 | 1 | C |

APR. 21, 1979 111

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 335 | 10.0 | 35 | C | 4.2 | 17 | 138 | -2.7 | 1.5 | 2.2 | 2 | C |
| 2 | 333 | 12.3 | 30 | C | 4.8 | 21 | 156 | -4.1 | 0.8 | 2.4 | 1 | C |
| 3 | 333 | 12.6 | 30 | C | 5.2 | 12 | 141 | -3.7 | 2.2 | 2.2 | 2 | C |
| 4 | 334 | 15.9 | 25 | C | 4.2 | -54 | 67 | 0.9 | 3.3 | -2.1 | 1 | C |
| 5 | 337 | 17.0 | 26 | C | 3.5 | -51 | 359 | 1.8 | 0.8 | -2.1 | 2 | C |
| 6 | 335 | 17.9 | 23 | C | 4.3 | -50 | 337 | 2.4 | -0.0 | -3.3 | 1 | C |
| 7 | 334 | 18.9 | 20 | C | 4.9 | -47 | 356 | 3.3 | 0.7 | -3.5 | 1 | C |
| 8 | 329 | 18.3 | 23 | C | 5.4 | -47 | 345 | 2.3 | -0.1 | -2.7 | 4 | C |
| 9 | 321 | 18.7 | 28 | C | 6.3 | 37 | 145 | -3.7 | 1.9 | 3.8 | 2 | C |
| 10 | 326 | 21.5 | 28 | C | 7.0 | 48 | 166 | -4.3 | 0.3 | 5.1 | 2 | C |
| 11 | 335 | 28.2 | 30 | C | 4.9 | -9 | 262 | -0.5 | -3.8 | -1.3 | 2 | C |
| 12 | 337 | 30.2 | 22 | C | 6.6 | -10 | 271 | 0.1 | -5.9 | -2.0 | 2 | C |
| 13 | 339 | 26.2 | 21 | C | 9.7 | -52 | 287 | 1.6 | -4.1 | -8.1 | 3 | C |
| 14 | 349 | 10.8 | 85 | C | 10.6 | -45 | 301 | 3.3 | -4.1 | -7.5 | 5 | C |
| 15 | 349 | 10.8 | 88 | C | 11.1 | -62 | 352 | 5.1 | 1.6 | -9.4 | 2 | C |
| 16 | 344 | 14.2 | 116 | C | 8.0 | -9 | 312 | 3.1 | -3.1 | -1.7 | 6 | C |
| 17 | 348 | 14.7 | 105 | C | 8.1 | -66 | 137 | -2.3 | 4.4 | -5.9 | 2 | C |
| 18 | 360 | 10.8 | 72 | C | 12.6 | -5 | 306 | 6.8 | -8.1 | -4.6 | 5 | C |
| 19 | 367 | 11.5 | 67 | C | 13.6 | -4 | 321 | 10.4 | -7.0 | -4.5 | 2 | C |
| 20 | 351 | 15.6 | 97 | C | 10.7 | -69 | 329 | 3.1 | 2.8 | -8.9 | 4 | C |
| 21 | 371 | 13.3 | 140 | C | 13.9 | -49 | 318 | 5.9 | 0.1 | -10.6 | 7 | C |
| 22 | 408 | 10.1 | 155 | C | 14.7 | -31 | 314 | 8.0 | -3.4 | -10.5 | 5 | C |
| 23 | 416 | 9.3 | 180 | C | 13.4 | 6 | 312 | 6.9 | -7.1 | -3.2 | 8 | C |
| 24 | 431 | 9.3 | 198 | C | 14.5 | -3 | 316 | 10.0 | -7.7 | -5.6 | 4 | C |

APR. 22, 1979 112

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 451 | 8.8 | 170 | C | 13.9 | -25 | 313 | 8.2 | -4.8 | -9.2 | 3 | C |
| 2 | 467 | 8.2 | 183 | C | 13.8 | -39 | 324 | 7.8 | -1.2 | -9.6 | 4 | C |
| 3 | 475 | 7.4 | 198 | C | 13.0 | -3 | 314 | 8.3 | -7.3 | -4.4 | 5 | C |
| 4 | 485 | 7.0 | 191 | C | 12.8 | 19 | 310 | 6.3 | -8.2 | 0.2 | 7 | C |
| 5 | 466 | 6.7 | 179 | C | 12.7 | -4 | 327 | 9.7 | -5.6 | -2.9 | 4 | C |
| 6 | 470 | 6.8 | 182 | C | 12.2 | 12 | 328 | 9.2 | -6.2 | 0.5 | 4 | C |
| 7 | 460 | 8.1 | 196 | C | 11.4 | 13 | 311 | 5.8 | -7.1 | 0.3 | 5 | C |
| 8 | 504 | 8.9 | 211 | C | 11.2 | 14 | 283 | 1.6 | -7.5 | 0.3 | 7 | C |
| 9 | 469 | 8.3 | 193 | C | 11.4 | 37 | 315 | 4.9 | -5.8 | 4.3 | 6 | C |
| 10 | 469 | 9.5 | 197 | C | 11.3 | -7 | 302 | 4.8 | -7.3 | -2.3 | 6 | C |
| 11 | 459 | 9.7 | 185 | C | 12.5 | -42 | 324 | 7.3 | -4.0 | -8.9 | 2 | C |
| 12 | 446 | 10.1 | 155 | C | 12.6 | 13 | 330 | 10.1 | -6.1 | 1.8 | 4 | C |
| 13 | 448 | 8.4 | 160 | C | 12.4 | 35 | 319 | 7.3 | -7.5 | 5.7 | 3 | C |
| 14 | 476 | 7.7 | 155 | C | 12.4 | -20 | 285 | 2.9 | -9.8 | -6.1 | 2 | C |
| 15 | 468 | 7.4 | 159 | C | 12.7 | 23 | 323 | 7.7 | -6.6 | 2.7 | 6 | C |
| 16 | 475 | 6.6 | 174 | C | 12.9 | -24 | 311 | 6.5 | -5.8 | -6.2 | 6 | C |
| 17 | 502 | 5.6 | 234 | C | 12.3 | 4 | 293 | 4.4 | -10.2 | -2.9 | 4 | C |
| 18 | 532 | 5.7 | 224 | C | 11.8 | -11 | 279 | 1.8 | -9.1 | -6.2 | 3 | C |
| 19 | 515 | 6.2 | 228 | C | 10.8 | 5 | 302 | 5.3 | -8.1 | -3.0 | 3 | C |
| 20 | 507 | 5.4 | 180 | C | 11.2 | -2 | 310 | 6.5 | -6.7 | -4.0 | 3 | C |
| 21 | 501 | 4.8 | 176 | C | 11.0 | 0 | 313 | 7.1 | -6.6 | -3.9 | 2 | C |
| 22 | 504 | 5.4 | 151 | C | 10.4 | -1 | 301 | 4.6 | -6.5 | -4.2 | 4 | C |
| 23 | 516 | 5.7 | 173 | C | 8.9 | 34 | 328 | 5.4 | -5.1 | 1.9 | 4 | C |
| 24 | 528 | 5.3 | 177 | C | 7.6 | 13 | 331 | 3.7 | -2.3 | -0.2 | 5 | C |

APR. 23, 1979 113

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 528 | 4.4 | 143 | C | 7.3 | -22 | 334 | 4.2 | -0.8 | -2.7 | 5 | C |
| 2 | 510 | 4.3 | 122 | C | 7.1 | 30 | 16 | 5.4 | -0.2 | 3.6 | 2 | C |
| 3 | 521 | 4.2 | 122 | C | 7.0 | 28 | 20 | 5.2 | 0.4 | 3.5 | 2 | C |
| 4 | 525 | 4.3 | 122 | C | 7.2 | 8 | 48 | 4.2 | 4.0 | 2.6 | 3 | C |
| 5 | 510 | 4.3 | 115 | C | 7.0 | -8 | 16 | 5.8 | 1.8 | -0.2 | 2 | C |
| 6 | 504 | 4.1 | 106 | C | 6.9 | -12 | 343 | 5.6 | -1.3 | -1.8 | 3 | C |
| 7 | 510 | 4.3 | 121 | C | 6.7 | -11 | 328 | 5.0 | -2.7 | -1.9 | 3 | C |
| 8 | 504 | 4.1 | 112 | C | 6.8 | 0 | 321 | 4.7 | -3.7 | -0.8 | 3 | C |
| 9 | 515 | 4.3 | 113 | C | 6.7 | -14 | 312 | 3.9 | -3.9 | -2.1 | 2 | C |
| 10 | 498 | 4.2 | 104 | C | 6.5 | -6 | 334 | 4.7 | -2.2 | -0.9 | 3 | C |
| 11 | 519 | 4.2 | 115 | C | 6.4 | -33 | 308 | 3.0 | -3.3 | -3.7 | 2 | C |
| 12 | 500 | 3.4 | 100 | C | 6.2 | -5 | 341 | 4.3 | -1.4 | -0.6 | 4 | C |
| 13 | 512 | 3.5 | 121 | C | 6.1 | 3 | 320 | 3.6 | -3.0 | -0.2 | 3 | C |
| 14 | 488 | 3.4 | 96 | C | 6.1 | -5 | 342 | 4.9 | -1.4 | -0.7 | 3 | C |
| 15 | 504 | 3.5 | 95 | C | 6.1 | -35 | 347 | 3.7 | -0.2 | -2.9 | 3 | C |
| 16 | 493 | 3.6 | 94 | C | 6.0 | -9 | 7 | 4.6 | 0.7 | -0.5 | 3 | C |
| 17 | 494 | 3.5 | 97 | C | 5.9 | -20 | 13 | 4.6 | 1.5 | -1.2 | 2 | C |
| 18 | 531 | 3.9 | 114 | C | 6.0 | -5 | 307 | 3.1 | -3.5 | -2.0 | 2 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 478 | 3.2 | 70 | C | 6.2 | 20 | 348 | 4.4 | -1.6 | 1.0 | 4 | C |
| 22 | 481 | 3.3 | 78 | C | 6.1 | 5 | 22 | 5.5 | 1.6 | 1.6 | 1 | C |
| 23 | 476 | 3.3 | 86 | C | 6.2 | 6 | 12 | 5.7 | 0.7 | 1.2 | 2 | C |
| 24 | 479 | 3.5 | 81 | C | 6.4 | -17 | 325 | 4.6 | -1.9 | -3.1 | 3 | C |

APR. 24, 1979 114

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 479 | 3.2 | 93 | C | 6.1 | 11 | 328 | 4.0 | -2.6 | -0.5 | 3 | C |
| 2 | 471 | 3.0 | 96 | C | 6.0 | 1 | 339 | 4.9 | -1.7 | -0.8 | 3 | C |
| 3 | 480 | 3.2 | 95 | C | 6.2 | -15 | 309 | 3.6 | -3.4 | -3.3 | 1 | C |
| 4 | 479 | 3.0 | 95 | C | 6.2 | -13 | 310 | 3.8 | -3.6 | -3.0 | 1 | C |
| 5 | 464 | 3.1 | 97 | C | 6.2 | -13 | 323 | 4.6 | -2.8 | -2.4 | 1 | C |
| 6 | 456 | 2.9 | 86 | C | 6.2 | 2 | 330 | 5.2 | -3.0 | -0.7 | 1 | C |
| 7 | 470 | 3.0 | 95 | C | 6.0 | -2 | 312 | 3.9 | -4.2 | -1.3 | 1 | C |
| 8 | 443 | 3.0 | 81 | C | 6.1 | 2 | 336 | 5.3 | -2.4 | -0.3 | 1 | C |
| 9 | 446 | 2.9 | 72 | C | 6.1 | -1 | 348 | 5.6 | -1.2 | -0.3 | 2 | C |
| 10 | 467 | 2.5 | 84 | C | 6.1 | 0 | 305 | 3.4 | -4.7 | -0.7 | 2 | C |
| 11 | 474 | 3.0 | 88 | C | 6.2 | -1 | 290 | 1.9 | -5.3 | -0.8 | 2 | C |
| 12 | 495 | 3.0 | 78 | C | 6.2 | -6 | 272 | 0.2 | -5.5 | -1.4 | 2 | C |
| 13 | 451 | 3.0 | 80 | C | 5.7 | -1 | 314 | 3.7 | -3.7 | -0.7 | 2 | C |
| 14 | 439 | 2.8 | 78 | C | 5.9 | -3 | 322 | 4.3 | -3.3 | -0.9 | 2 | C |
| 15 | 437 | 3.3 | 133 | L | 6.0 | -9 | 319 | 4.4 | -3.5 | -1.8 | 1 | C |
| 16 | 433 | 3.6 | 122 | L | 6.4 | 3 | 327 | 4.9 | -3.2 | -0.6 | 2 | J |
| 17 | 434 | 3.4 | 115 | L | 6.4 | 10 | 325 | 4.8 | -3.5 | -0.1 | 2 | J |
| 18 | 437 | 3.0 | 98 | L | 5.5 | 7 | 327 | 4.2 | -2.7 | -0.5 | 2 | J |
| 19 | 433 | 3.7 | 89 | J | 6.5 | 11 | 283 | 1.3 | -5.8 | -1.5 | 2 | J |
| 20 | 417 | 3.3 | 73 | J | 6.3 | 4 | 309 | 3.6 | -4.2 | -1.8 | 2 | J |
| 21 | 409 | 3.0 | 56 | J | 6.1 | 5 | 325 | 4.6 | -3.0 | -1.2 | 2 | J |
| 22 | 407 | 2.9 | 69 | C | 6.1 | 3 | 324 | 4.8 | -3.1 | -1.5 | 1 | C |
| 23 | 403 | 3.1 | 68 | C | 5.4 | -4 | 322 | 3.9 | -2.4 | -1.9 | 2 | C |
| 24 | 474 | 8.9 | 201 | C | 8.1 | 32 | 307 | 3.0 | -5.1 | 0.6 | 5 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 608 | 19.1 | 505 | C | 16.1 | 10 | 276 | 1.5 | -12.6 | -4.6 | 7 | C |
| 2 | 595 | 19.4 | 428 | C | 19.2 | -41 | 240 | -6.8 | -4.8 | -16.1 | 7 | C |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 577 | 35.9 | 447 | J | 16.5 | -49 | 231 | -6.4 | -3.4 | -13.6 | 6 | J |
| 6 | 587 | 37.0 | 451 | J | 12.9 | -56 | 241 | -3.3 | -2.7 | -11.3 | 6 | J |
| 7 | 599 | 24.3 | 529 | J | 27.0 | 42 | 239 | -9.6 | -19.5 | 12.3 | 10 | J |
| 8 | 623 | 34.3 | 455 | J | 24.4 | 0 | 245 | -8.5 | -17.9 | -3.7 | 14 | J |
| 9 | 614 | 41.3 | 272 | J | 25.3 | 63 | 18 | 3.5 | -0.1 | 7.4 | 24 | J |
| 10 | 616 | 22.6 | 64 | J | 32.5 | -7 | 266 | -2.2 | -30.2 | -8.3 | 9 | J |
| 11 | 604 | 25.0 | 79 | J | 29.8 | -11 | 262 | -3.9 | -27.1 | -9.3 | 7 | J |
| 12 | 604 | 35.0 | 121 | J | 26.0 | -33 | 258 | -4.2 | -17.9 | -15.9 | 9 | J |
| 13 | 605 | 22.9 | 91 | J | 25.5 | 10 | 278 | 3.4 | -24.7 | 0.5 | 5 | J |
| 14 | 569 | 14.9 | 75 | J | 16.1 | -3 | 292 | 6.0 | -14.3 | -3.7 | 4 | C |
| 15 | 651 | 4.9 | 52 | J | 14.5 | 6 | 295 | 6.1 | -13.1 | -1.5 | 1 | J |
| 16 | 651 | 5.4 | 58 | J | 13.7 | 2 | 305 | 7.6 | -10.6 | -2.5 | 3 | J |
| 17 | 645 | 4.6 | 62 | J | 13.1 | 8 | 303 | 6.9 | -10.6 | -1.8 | 3 | J |
| 18 | 631 | 4.6 | 64 | J | 12.4 | 16 | 299 | 5.6 | -10.7 | -0.8 | 3 | J |
| 19 | 629 | 7.6 | 74 | J | 11.7 | 5 | 323 | 9.3 | -6.8 | -2.1 | 1 | J |
| 20 | 613 | 3.0 | 94 | C | 10.0 | 21 | 303 | 4.5 | -7.6 | -0.4 | 4 | C |
| 21 | 634 | 9.1 | 72 | J | 9.8 | 2 | 341 | 8.7 | -2.8 | -1.2 | 3 | J |
| 22 | 618 | 6.7 | 55 | J | 11.0 | -7 | 339 | 9.8 | -2.6 | -3.0 | 3 | J |
| 23 | 607 | 7.7 | 44 | C | 11.9 | -20 | 340 | 10.0 | -1.2 | -5.2 | 3 | C |
| 24 | 598 | 4.2 | 38 | C | 11.2 | 12 | 314 | 6.9 | -7.3 | -1.8 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 597 | 2.3 | 51 | C | 10.0 | 24 | 304 | 5.1 | -8.5 | -0.2 | 1 | C |
| 2 | 588 | 2.8 | 35 | C | 9.6 | 14 | 320 | 7.1 | -6.4 | -0.7 | 1 | C |
| 3 | 579 | 3.0 | 50 | C | 9.8 | 16 | 319 | 7.0 | -6.7 | -0.2 | 0 | C |
| 4 | 572 | 2.5 | 35 | C | 9.7 | 27 | 312 | 5.8 | -7.6 | 1.5 | 1 | C |
| 5 | 569 | 2.6 | 33 | C | 9.7 | 29 | 323 | 6.8 | -6.3 | 2.7 | 1 | C |
| 6 | 559 | 2.5 | 52 | C | 9.4 | 35 | 350 | 7.6 | -2.8 | 4.7 | 1 | C |
| 7 | 550 | 2.9 | 41 | J | 9.0 | 48 | 6 | 5.9 | -1.0 | 6.6 | 1 | J |
| 8 | 544 | 2.4 | 39 | C | 8.1 | 58 | 2 | 4.2 | -1.2 | 6.7 | 1 | C |
| 9 | 537 | 2.0 | 43 | C | 7.7 | 53 | 22 | 4.2 | 0.7 | 6.1 | 2 | C |
| 10 | 521 | 2.5 | 51 | C | 7.1 | 48 | 335 | 3.9 | -2.5 | 4.5 | 3 | J |
| 11 | 548 | 2.0 | 63 | J | 7.1 | 56 | 5 | 3.8 | -0.4 | 5.7 | 2 | J |
| 12 | 559 | 0.8 | 97 | J | 6.6 | 56 | 3 | 3.5 | -0.5 | 5.1 | 2 | J |
| 13 | 598 | 1.8 | 39 | J | 6.7 | 64 | 355 | 2.8 | -1.1 | 5.7 | 1 | J |
| 14 | 567 | 2.2 | 65 | J | 6.3 | 74 | 14 | 1.7 | -0.7 | 5.9 | 1 | J |
| 15 | 563 | 2.1 | 56 | J | 6.1 | 64 | 356 | 2.1 | -1.1 | 4.3 | 4 | J |
| 16 | 535 | 1.9 | 48 | J | 6.0 | 20 | 310 | 3.3 | -4.3 | 0.7 | 2 | J |
| 17 | 529 | 2.1 | 52 | J | 6.0 | 33 | 326 | 4.0 | -3.6 | 2.1 | 1 | J |
| 18 | 497 | 2.4 | 32 | J | 6.4 | -12 | 331 | 5.4 | -2.3 | -2.3 | 1 | J |
| 19 | 510 | 2.6 | 50 | J | 6.0 | -14 | 327 | 4.4 | -2.0 | -2.4 | 2 | J |
| 20 | 514 | 2.2 | 51 | J | 5.7 | 20 | 351 | 4.7 | -1.5 | 1.2 | 3 | J |
| 21 | 519 | 2.2 | 68 | J | 5.9 | 0 | 325 | 4.3 | -2.6 | -1.5 | 2 | J |
| 22 | 510 | 2.6 | 111 | J | 5.8 | 20 | 329 | 3.9 | -2.8 | 0.2 | 3 | J |
| 23 | 527 | 3.0 | 80 | J | 6.1 | 23 | 340 | 4.8 | -2.6 | 1.0 | 2 | J |
| 24 | 547 | 3.3 | 123 | J | 6.1 | 43 | 339 | 3.6 | -3.0 | 2.4 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 526 | 3.4 | 74 | J | 6.2 | 17 | 335 | 4.8 | -2.7 | 0.3 | 3 | J |
| 2 | 541 | 3.8 | 118 | J | 6.3 | -3 | 316 | 4.0 | -3.3 | -2.1 | 3 | J |
| 3 | 550 | 3.9 | 104 | J | 6.4 | -37 | 311 | 3.1 | -1.7 | -4.8 | 2 | J |
| 4 | 506 | 4.0 | 45 | J | 6.5 | 7 | 349 | 5.8 | -1.3 | 0.2 | 3 | J |
| 5 | 530 | 3.9 | 104 | C | 6.7 | 0 | 321 | 4.4 | -3.4 | -1.2 | 3 | C |
| 6 | 507 | 3.8 | 87 | C | 6.8 | 16 | 352 | 5.2 | -1.1 | 1.2 | 4 | C |
| 7 | 518 | 5.0 | 89 | J | 6.6 | 5 | 335 | 5.0 | -2.4 | -0.1 | 4 | J |
| 8 | 561 | 5.6 | 142 | J | 6.6 | -4 | 287 | 1.5 | -4.6 | -1.3 | 4 | J |
| 9 | 559 | 5.9 | 170 | J | 6.5 | -6 | 274 | 0.3 | -4.2 | -1.2 | 5 | J |
| 10 | 523 | 5.5 | 89 | J | 7.5 | 26 | 343 | 5.3 | -2.0 | 2.5 | 4 | J |
| 11 | 528 | 5.9 | 128 | J | 7.7 | 54 | 340 | 3.9 | -2.1 | 5.5 | 3 | J |
| 12 | 512 | 5.6 | 92 | J | 7.8 | 41 | 355 | 5.5 | -1.1 | 4.7 | 3 | J |
| 13 | 526 | 6.1 | 156 | J | 7.2 | 38 | 18 | 4.3 | 0.9 | 3.7 | 4 | J |
| 14 | 527 | 6.3 | 175 | J | 8.0 | 3 | 315 | 4.4 | -4.4 | -0.5 | 5 | J |
| 15 | 513 | 6.4 | 147 | J | 8.7 | -11 | 335 | 6.6 | -2.7 | -2.0 | 5 | J |
| 16 | 527 | 7.2 | 247 | J | 8.5 | -48 | 317 | 3.3 | -1.6 | -5.6 | 5 | J |
| 17 | 560 | 7.7 | 295 | J | 9.6 | -38 | 291 | 2.3 | -4.1 | -6.7 | 5 | J |
| 18 | 532 | 6.4 | 229 | J | 10.6 | 7 | 343 | 8.0 | -2.6 | 0.0 | 6 | J |
| 19 | 530 | 5.6 | 159 | J | 9.5 | -5 | 339 | 7.5 | -2.3 | -1.9 | 5 | J |
| 20 | 542 | 5.1 | 207 | J | 9.7 | -28 | 327 | 6.7 | -1.9 | -5.7 | 3 | J |
| 21 | 554 | 4.7 | 192 | J | 9.8 | -27 | 317 | 5.8 | -2.7 | -6.2 | 4 | J |
| 22 | 550 | 4.5 | 182 | J | 9.6 | -27 | 314 | 5.6 | -2.9 | -6.5 | 3 | J |
| 23 | 530 | 4.2 | 121 | J | 9.2 | -13 | 324 | 6.6 | -3.2 | -4.1 | 3 | J |
| 24 | 556 | 4.1 | 147 | J | 9.0 | -32 | 312 | 4.7 | -2.3 | -6.4 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 548 | 4.1 | 153 | J | 8.9 | -23 | 309 | 4.8 | -3.6 | -5.7 | 3 | J |
| 2 | 595 | 4.1 | 208 | J | 8.2 | -20 | 311 | 4.3 | -3.3 | -4.4 | 4 | J |
| 3 | 610 | 4.0 | 172 | J | 8.1 | 26 | 341 | 6.1 | -3.2 | 2.0 | 4 | J |
| 4 | 602 | 4.2 | 170 | J | 8.6 | 39 | 354 | 6.5 | -2.6 | 4.6 | 2 | J |
| 5 | 615 | 4.1 | 186 | J | 8.8 | 32 | 341 | 7.0 | -3.8 | 3.6 | 0 | C |
| 6 | 642 | 4.0 | 262 | J | 7.7 | -38 | 284 | 1.3 | -3.7 | -5.3 | 4 | J |
| 7 | 605 | 3.8 | 208 | J | 7.5 | 17 | 325 | 4.8 | -3.7 | 1.0 | 4 | J |
| 8 | 634 | 3.5 | 213 | J | 7.3 | -57 | 294 | 1.2 | -1.8 | -5.1 | 5 | J |
| 9 | 619 | 3.4 | 214 | J | 7.2 | -17 | 323 | 3.4 | -2.4 | -1.7 | 6 | J |
| 10 | 598 | 3.5 | 188 | J | 7.2 | 34 | 357 | 5.5 | -0.8 | 3.7 | 3 | J |
| 11 | 594 | 3.6 | 141 | J | 7.7 | 27 | 356 | 6.4 | -0.9 | 3.2 | 2 | C |
| 12 | 622 | 3.2 | 135 | J | 7.5 | 22 | 357 | 6.8 | -0.7 | 2.7 | 2 | J |
| 13 | 599 | 3.2 | 157 | J | 7.3 | -22 | 314 | 4.4 | -4.1 | -3.2 | 3 | J |
| 14 | 596 | 3.3 | 159 | J | 6.9 | -24 | 353 | 5.3 | -0.2 | -2.4 | 4 | J |
| 15 | 584 | 3.0 | 98 | J | 7.5 | -10 | 328 | 5.9 | -3.3 | -1.9 | 2 | C |
| 16 | 569 | 2.9 | 71 | J | 7.4 | -6 | 326 | 5.9 | -3.7 | -1.8 | 2 | J |
| 17 | 565 | 3.3 | 56 | J | 7.6 | 9 | 347 | 7.1 | -1.9 | 0.6 | 2 | J |
| 18 | 558 | 3.3 | 52 | J | 7.4 | -7 | 341 | 6.8 | -1.8 | -1.7 | 2 | J |
| 19 | 554 | 2.9 | 50 | J | 7.5 | -14 | 349 | 7.0 | -0.5 | -2.2 | 1 | J |
| 20 | 547 | 2.5 | 48 | J | 7.7 | -8 | 337 | 6.7 | -2.1 | -2.2 | 2 | J |
| 21 | 559 | 3.0 | 89 | J | 7.3 | -7 | 306 | 4.0 | -4.4 | -3.4 | 3 | J |
| 22 | 557 | 3.1 | 89 | J | 7.2 | -21 | 305 | 3.5 | -3.1 | -4.5 | 3 | J |
| 23 | 554 | 3.4 | 97 | J | 7.3 | -42 | 312 | 3.4 | -0.9 | -5.9 | 2 | J |
| 24 | 534 | 3.7 | 96 | J | 7.9 | 23 | 327 | 5.7 | -4.7 | 0.6 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 565 | 3.6 | 97 | J | 7.9 | 13 | 319 | 5.0 | -4.5 | -0.8 | 4 | J |
| 2 | 569 | 3.8 | 118 | J | 8.1 | 5 | 310 | 4.1 | -4.6 | -1.7 | 5 | J |
| 3 | 605 | 4.0 | 135 | J | 8.5 | 50 | 37 | 3.8 | 0.2 | 6.3 | 4 | J |
| 4 | 574 | 7.0 | 236 | J | 9.8 | 33 | 331 | 5.4 | -4.2 | 2.6 | 6 | C |
| 5 | 596 | 8.1 | 255 | J | 9.0 | -41 | 314 | 4.1 | -2.3 | -6.2 | 5 | J |
| 6 | 606 | 8.5 | 276 | J | 7.9 | -70 | 271 | 0.0 | -0.3 | -5.0 | 6 | J |
| 7 | 614 | 6.7 | 260 | C | 7.2 | -46 | 3 | 3.2 | 0.9 | -3.2 | 6 | J |
| 8 | 601 | 7.0 | 283 | J | 8.4 | 5 | 325 | 5.0 | -3.5 | -0.1 | 6 | J |
| 9 | 615 | 5.0 | 351 | J | 10.2 | -13 | 307 | 5.4 | -6.8 | -3.1 | 4 | J |
| 10 | 612 | 3.5 | 294 | J | 10.3 | -7 | [illegible] | 4.8 | -7.7 | -2.2 | 4 | J |
| 11 | 599 | 3.6 | 323 | J | 10.4 | -4 | 316 | 6.7 | -6.3 | -1.4 | 4 | C |
| 12 | 580 | 4.2 | 320 | J | 9.7 | -11 | 302 | 4.7 | -7.3 | -2.6 | 3 | J |
| 13 | 609 | 4.7 | 269 | J | 8.8 | 20 | 297 | 3.1 | -6.4 | 1.6 | 5 | J |
| 14 | 630 | 4.7 | 217 | J | 8.6 | -19 | 268 | -0.2 | -5.8 | -3.2 | 5 | J |
| 15 | 571 | 5.0 | 168 | J | 8.2 | -5 | 306 | 4.3 | -5.7 | -1.9 | 3 | J |
| 16 | 559 | 5.9 | 133 | J | 9.0 | -22 | 305 | 4.1 | -5.0 | -4.4 | 4 | J |
| 17 | 573 | 6.2 | 137 | J | 9.0 | -9 | 290 | 2.5 | -6.2 | -3.2 | 5 | J |
| 18 | 577 | 5.9 | 164 | J | 8.2 | 16 | 303 | 3.7 | -6.0 | -0.3 | 4 | J |
| 19 | 600 | 5.4 | 189 | J | 8.3 | -12 | 289 | 2.2 | -5.2 | -4.0 | 5 | J |
| 20 | 599 | 5.4 | 164 | J | 7.7 | -60 | 301 | 1.4 | 0.1 | -5.4 | 5 | J |
| 21 | 604 | 5.2 | 170 | J | 7.5 | -6 | 278 | 0.9 | -5.5 | -3.9 | 3 | J |
| 22 | 596 | 5.3 | 154 | J | 7.5 | -39 | 287 | 1.5 | -2.2 | -6.1 | 3 | J |
| 23 | 600 | 4.9 | 99 | J | 7.3 | -42 | 308 | 3.0 | -1.1 | -5.8 | 3 | J |
| 24 | 576 | 5.2 | 112 | J | 6.9 | -34 | 313 | 2.7 | -1.2 | -3.8 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 558 | 4.8 | 95 | J | 6.8 | -3 | 327 | 5.2 | -2.8 | -1.9 | 3 | J |
| 2 | 554 | 4.7 | 91 | J | 6.6 | -23 | 313 | 3.7 | -2.5 | -3.8 | 3 | J |
| 3 | 548 | 4.5 | 96 | J | 6.7 | -1 | 315 | 3.9 | -3.5 | -1.7 | 3 | C |
| 4 | 534 | 4.6 | 92 | J | 6.4 | -2 | 317 | 4.2 | -3.5 | -1.6 | 3 | J |
| 5 | 541 | 4.7 | 81 | J | 6.4 | -20 | 310 | 3.3 | -3.1 | -3.1 | 3 | J |
| 6 | 542 | 5.2 | 106 | J | 6.6 | -6 | 308 | 3.4 | -4.0 | -1.8 | 3 | C |
| 7 | 544 | 5.2 | 95 | J | 6.6 | 14 | 313 | 3.8 | -4.3 | 0.4 | 3 | J |
| 8 | 524 | 4.9 | 66 | J | 6.5 | 24 | 339 | 4.9 | -2.3 | 2.0 | 3 | J |
| 9 | 537 | 5.1 | 70 | J | 6.0 | -26 | 309 | 2.5 | -2.8 | -2.4 | 4 | J |
| 10 | 530 | 4.8 | 76 | J | 5.9 | -23 | 325 | 3.2 | -2.0 | -1.9 | 4 | J |
| 11 | 539 | 5.5 | 109 | J | 6.0 | -17 | 297 | 2.1 | -3.9 | -1.9 | 4 | J |
| 12 | 515 | 4.4 | 63 | J | 5.9 | 23 | 29 | 4.1 | 2.0 | 2.2 | 3 | J |
| 13 | 531 | 5.9 | 127 | J | 5.9 | -44 | 306 | 2.0 | -2.3 | -3.6 | 4 | J |
| 14 | 504 | 4.5 | 66 | C | 5.8 | -7 | 345 | 4.1 | -1.0 | -0.7 | 4 | J |
| 15 | 533 | 4.2 | 96 | C | 5.9 | 16 | 342 | 4.7 | -1.8 | 1.1 | 3 | J |
| 16 | 531 | 3.8 | 108 | C | 6.1 | 7 | 63 | 2.3 | 4.2 | 1.7 | 3 | J |
| 17 | 548 | 5.5 | 214 | L | 5.4 | -15 | 359 | 3.3 | 0.2 | -0.9 | 4 | J |
| 18 | 547 | 4.3 | 192 | L | 5.0 | -2 | 321 | 2.8 | -2.1 | -0.9 | 3 | J |
| 19 | 560 | 4.2 | 194 | L | 6.2 | 11 | 320 | 3.9 | -3.4 | -0.4 | 3 | C |
| 20 | 534 | 3.3 | 115 | C | 6.1 | 30 | 331 | 4.2 | -3.3 | 1.4 | 2 | C |
| 21 | 525 | 3.1 | 103 | C | 6.1 | 22 | 343 | 4.9 | -2.3 | 1.1 | 2 | C |
| 22 | 522 | 3.2 | 85 | C | 6.5 | 17 | 340 | 5.5 | -2.6 | 0.5 | 1 | C |
| 23 | 526 | 3.2 | 81 | C | 6.3 | 18 | 351 | 5.0 | -1.5 | 1.0 | 3 | C |
| 24 | 527 | 3.3 | 85 | C | 6.2 | 25 | 331 | 4.7 | -3.5 | 0.9 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 533 | 3.5 | 96 | C | 6.0 | -19 | 336 | 4.4 | -0.9 | -2.4 | 3 | C |
| 2 | 567 | 3.7 | 112 | C | 6.0 | 30 | 293 | 1.8 | -4.9 | 0.4 | 2 | C |
| 3 | 540 | 3.8 | 120 | C | 6.0 | 21 | 314 | 3.3 | -3.9 | 0.3 | 3 | C |
| 4 | 535 | 3.8 | 122 | C | 5.8 | -17 | 342 | 4.0 | -0.8 | -1.7 | 3 | C |
| 5 | 527 | 3.6 | 113 | C | 5.4 | -2 | 7 | 4.1 | 0.5 | 0.0 | 3 | C |
| 6 | 517 | 3.4 | 104 | C | 5.5 | 12 | 339 | 4.3 | -1.8 | 0.5 | 2 | C |
| 7 | 533 | 3.6 | 116 | C | 5.3 | -22 | 312 | 2.0 | -1.9 | -1.7 | 4 | C |
| 8 | 520 | 3.5 | 112 | C | 5.3 | 24 | 317 | 2.9 | -3.0 | 1.3 | 2 | C |
| 9 | 519 | 3.5 | 95 | C | 5.5 | 7 | 327 | 3.1 | -2.0 | 0.2 | 4 | C |
| 10 | 546 | 3.7 | 86 | C | 5.5 | -20 | 273 | 0.1 | -2.2 | -1.2 | 5 | C |
| 11 | 503 | 3.7 | 78 | C | 5.9 | 58 | 350 | 3.0 | -1.1 | 4.7 | 1 | C |
| 12 | 507 | 4.3 | 96 | C | 5.5 | 42 | 353 | 3.1 | -0.7 | 2.7 | 2 | C |
| 13 | 496 | 4.3 | 88 | C | 5.3 | 57 | 9 | 2.7 | -0.1 | 4.1 | 1 | C |
| 14 | 479 | 3.8 | 85 | C | 5.2 | 14 | 17 | 4.5 | 1.2 | 1.3 | 1 | C |
| 15 | 487 | 3.8 | 87 | C | 5.0 | 44 | 347 | 3.0 | -1.3 | 2.8 | 2 | C |
| 16 | 475 | 3.8 | 86 | C | 5.1 | 20 | 346 | 3.9 | -1.3 | 1.2 | 2 | C |
| 17 | 477 | 3.6 | 79 | C | 5.3 | 38 | 322 | 2.9 | -3.0 | 2.0 | 2 | C |
| 18 | 480 | 3.9 | 79 | C | 5.4 | -16 | 300 | 2.5 | -3.5 | -2.8 | 1 | C |
| 19 | 495 | 3.9 | 77 | C | 5.2 | -23 | 290 | 1.4 | -2.8 | -3.2 | 2 | C |
| 20 | 491 | 4.0 | 73 | C | 5.3 | -17 | 300 | 2.0 | -2.6 | -2.7 | 3 | C |
| 21 | 498 | 4.3 | 69 | C | 5.4 | -41 | 283 | 0.7 | -1.4 | -3.9 | 3 | C |
| 22 | 488 | 4.4 | 67 | C | 5.6 | -46 | 277 | 0.5 | -1.3 | -5.0 | 2 | C |
| 23 | 502 | 4.2 | 58 | C | 5.5 | -46 | 239 | -1.8 | -0.8 | -4.8 | 1 | C |
| 24 | 497 | 4.4 | 61 | C | 5.4 | -42 | 232 | -2.4 | -0.9 | -4.6 | 1 | C |

### MAY 2, 1979

122

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 499 | 4.2 | 60 | C | 5.4 | -56 | 229 | -1.9 | 0.1 | -4.7 | 2 | C |
| 2 | 489 | 3.8 | 65 | C | 5.2 | -57 | 255 | -0.7 | -0.4 | -4.6 | 2 | C |
| 3 | 490 | 3.7 | 73 | C | 5.1 | -54 | 264 | -0.3 | -1.0 | -4.7 | 1 | C |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 491 | 3.0 | 90 | C | 4.8 | -44 | 279 | 0.5 | -2.5 | -3.9 | 1 | C |
| 8 | 469 | 3.0 | 91 | C | 4.9 | 5 | 316 | 2.9 | -2.8 | -0.2 | 3 | C |
| 9 | 473 | 2.8 | 89 | C | 4.6 | -13 | 316 | 2.9 | -2.7 | -1.3 | 2 | C |
| 10 | 484 | 2.9 | 84 | C | 4.8 | 5 | 299 | 2.0 | -3.8 | -0.1 | 2 | C |
| 11 | 458 | 2.6 | 76 | C | 4.9 | 15 | 330 | 3.9 | -2.4 | 1.0 | 1 | C |
| 12 | 462 | 2.7 | 83 | C | 4.9 | -8 | 320 | 3.5 | -2.8 | -0.9 | 1 | C |
| 13 | 466 | 2.8 | 72 | C | 5.0 | 10 | 325 | 3.9 | -2.8 | 0.5 | 1 | C |
| 14 | 465 | 2.6 | 76 | C | 5.1 | -10 | 325 | 3.7 | -2.4 | -1.2 | 2 | C |
| 15 | 457 | 2.5 | 75 | C | 5.0 | -1 | 318 | 3.4 | -3.0 | -0.7 | 1 | C |
| 16 | 448 | 2.6 | 64 | C | 5.2 | -7 | 332 | 4.5 | -2.1 | -1.1 | 1 | C |
| 17 | 443 | 2.6 | 68 | C | 5.4 | -3 | 344 | 5.1 | -1.3 | -0.7 | 1 | C |
| 18 | 443 | 2.4 | 72 | C | 5.2 | -1 | 335 | 4.6 | -2.0 | -0.8 | 1 | C |
| 19 | 438 | 2.6 | 94 | C | 5.3 | -16 | 310 | 3.1 | -2.8 | -2.8 | 2 | C |
| 20 | 427 | 3.1 | 76 | C | 5.5 | -10 | 293 | 1.9 | -3.8 | -2.9 | 2 | C |
| 21 | 426 | 3.0 | 59 | C | 5.4 | 23 | 340 | 3.2 | -1.7 | 0.8 | 4 | C |
| 22 | 397 | 2.9 | 52 | C | 5.6 | 23 | 352 | 4.9 | -1.6 | 1.5 | 1 | C |
| 23 | 394 | 3.5 | 50 | C | 5.8 | 16 | 353 | 5.1 | -1.2 | 1.0 | 2 | C |
| 24 | 378 | 4.0 | 36 | C | 6.2 | 5 | 349 | 6.0 | -1.3 | -0.1 | 1 | C |

### MAY 3, 1979

123

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 3.8 | 47 | C | 6.1 | -4 | 351 | 5.9 | -0.6 | -0.8 | 1 | C |
| 2 | 398 | 4.5 | 48 | C | 6.3 | -41 | 334 | 4.2 | -0.1 | -4.5 | 1 | C |
| 3 | 390 | 4.1 | 50 | C | 6.4 | -27 | 330 | 4.6 | -1.3 | -3.6 | 2 | C |
| 4 | 390 | 3.8 | 43 | C | 6.3 | 2 | 325 | 4.5 | -3.0 | -1.0 | 3 | C |
| 5 | 384 | 3.8 | 43 | C | 6.1 | 38 | 336 | 4.1 | -2.8 | 2.8 | 2 | C |
| 6 | 383 | 4.3 | 46 | C | 6.2 | 21 | 331 | 4.7 | -3.1 | 1.3 | 2 | C |
| 7 | 387 | 4.1 | 52 | C | 6.2 | 3 | 313 | 4.0 | -4.2 | -0.6 | 2 | C |
| 8 | 408 | 4.5 | 36 | C | 6.3 | 42 | 275 | 0.4 | -4.4 | 2.8 | 3 | C |
| 9 | 402 | 4.5 | 36 | C | 7.1 | 16 | 276 | 0.8 | -6.8 | 1.0 | 2 | C |
| 10 | 393 | 4.4 | 37 | C | 7.0 | 0 | 285 | 1.7 | -6.6 | -0.8 | 1 | C |
| 11 | 393 | 4.5 | 43 | C | 6.6 | -7 | 284 | 1.5 | -6.2 | -1.4 | 1 | C |
| 12 | 387 | 4.6 | 37 | C | 6.5 | -2 | 287 | 1.8 | -6.0 | -0.8 | 1 | C |
| 13 | 378 | 4.6 | 33 | C | 6.4 | -20 | 292 | 2.1 | -5.1 | -2.8 | 1 | C |
| 14 | 371 | 4.9 | 40 | C | 6.1 | -11 | 304 | 3.1 | -4.3 | -1.8 | 2 | C |
| 15 | 372 | 4.6 | 44 | C | 5.3 | 13 | 306 | 2.4 | -3.3 | 0.3 | 3 | C |
| 16 | 367 | 4.5 | 39 | C | 5.7 | 51 | 328 | 2.7 | -2.6 | 3.4 | 2 | C |
| 17 | 369 | 5.1 | 40 | C | 6.3 | 67 | 328 | 2.0 | -2.9 | 4.9 | 2 | C |
| 18 | 374 | 5.2 | 47 | C | 6.3 | 51 | 324 | 2.5 | -3.0 | 2.9 | 4 | C |
| 19 | 359 | 5.4 | 40 | C | 6.1 | 2 | 306 | 3.3 | -4.2 | -1.6 | 2 | C |
| 20 | 390 | 5.3 | 36 | C | 6.4 | 49 | 271 | 0.1 | -5.6 | 2.3 | 2 | C |
| 21 | 338 | 6.5 | 34 | C | 6.5 | 3 | 355 | 5.7 | -0.6 | 0.1 | 3 | C |
| 22 | 342 | 6.6 | 38 | C | 6.7 | -18 | 354 | 5.9 | 0.4 | -2.1 | 2 | C |
| 23 | 359 | 5.9 | 34 | C | 6.5 | -42 | 325 | 3.7 | -0.3 | -4.9 | 2 | C |
| 24 | 370 | 5.6 | 32 | C | 6.3 | -59 | 288 | 1.0 | -0.1 | -5.8 | 2 | C |

### MAY 4, 1979

124

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 5.6 | 29 | C | 6.1 | -44 | 338 | 3.3 | 0.4 | -3.6 | 4 | C |
| 2 | 340 | 6.3 | 31 | C | 6.1 | 14 | 320 | 4.3 | -3.8 | -0.3 | 1 | C |
| 3 | 329 | 6.6 | 28 | C | 6.0 | 8 | 328 | 4.9 | -3.2 | -0.5 | 1 | C |
| 4 | 332 | 7.0 | 21 | C | 5.9 | -11 | 3 | 5.8 | 0.7 | -0.9 | 0 | C |
| 5 | 332 | 7.6 | 24 | C | 5.7 | -9 | 12 | 5.4 | 1.4 | -0.5 | 1 | C |
| 6 | 331 | 7.5 | 26 | C | 5.5 | -15 | 13 | 5.1 | 1.5 | -1.1 | 1 | C |
| 7 | 329 | 7.6 | 23 | C | 5.4 | -17 | 7 | 5.1 | 1.0 | -1.4 | 1 | C |
| 8 | 327 | 8.0 | 23 | C | 5.4 | -14 | 9 | 5.1 | 1.0 | -1.2 | 0 | C |
| 9 | 332 | 9.1 | 20 | C | 5.3 | -17 | 10 | 4.7 | 1.0 | -1.3 | 2 | C |
| 10 | 335 | 10.8 | 15 | C | 5.3 | -30 | 359 | 4.3 | 0.2 | -2.5 | 2 | C |
| 11 | 338 | 10.6 | 17 | C | 5.2 | -33 | 47 | 2.8 | 3.3 | -2.4 | 1 | C |
| 12 | 336 | 11.5 | 16 | C | 4.9 | -29 | 30 | 3.2 | 2.0 | -1.8 | 2 | C |
| 13 | 329 | 11.4 | 17 | C | 4.8 | -32 | 14 | 3.8 | 1.2 | -2.3 | 1 | C |
| 14 | 328 | 9.8 | 20 | C | 4.8 | -30 | 30 | 3.4 | 2.2 | -1.9 | 2 | C |
| 15 | 340 | 9.6 | 20 | C | 5.2 | -26 | 54 | 2.1 | 3.1 | -1.2 | 3 | C |
| 16 | 335 | 9.5 | 24 | C | 5.9 | 19 | 24 | 3.8 | 1.3 | 1.8 | 4 | C |
| 17 | 333 | 9.4 | 28 | C | 6.6 | 48 | 338 | 3.8 | -2.7 | 3.9 | 2 | C |
| 18 | 341 | 9.2 | 33 | C | 7.3 | 23 | 296 | 2.8 | -6.4 | 0.5 | 2 | C |
| 19 | 340 | 9.5 | 27 | C | 7.8 | -8 | 296 | 3.2 | -5.5 | -3.6 | 2 | C |
| 20 | 327 | 9.7 | 24 | C | 7.4 | -27 | 298 | 2.9 | -3.6 | -5.3 | 2 | C |
| 21 | 317 | 9.5 | 26 | C | 7.3 | 1 | 312 | 4.7 | -4.6 | -2.3 | 2 | C |
| 22 | 335 | 9.6 | 29 | C | 7.1 | -3 | 288 | 2.1 | -5.5 | -3.4 | 2 | C |
| 23 | 330 | 8.9 | 33 | C | 6.6 | -21 | 305 | 3.0 | -2.7 | -3.8 | 3 | C |
| 24 | 312 | 9.6 | 33 | C | 6.6 | 2 | 335 | 5.6 | -2.3 | -1.0 | 2 | C |

### MAY 5, 1979

125

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 324 | 9.5 | 36 | C | 6.7 | -6 | [illegible] | 2.7 | -4.0 | -2.7 | 3 | C |
| 2 | 318 | 10.3 | 35 | C | 6.8 | -25 | 316 | 4.2 | -2.4 | -4.2 | 1 | C |
| 3 | 313 | 9.6 | 35 | C | 6.4 | -11 | 326 | 5.1 | -2.8 | -2.5 | 1 | C |
| 4 | 316 | 9.1 | 30 | C | 6.4 | 2 | 302 | 3.0 | -4.6 | -1.5 | 2 | C |
| 5 | 306 | 9.3 | 31 | C | 6.6 | 9 | 318 | 4.2 | -3.9 | -0.3 | 3 | C |
| 6 | 298 | 8.1 | 22 | C | 6.5 | 11 | 333 | 5.5 | -3.0 | 0.4 | 1 | C |
| 7 | 293 | 8.3 | 21 | C | 6.6 | -11 | 348 | 6.1 | -1.0 | -1.4 | 2 | C |
| 8 | 290 | 8.9 | 20 | C | 6.9 | -10 | 344 | 6.4 | -1.7 | -1.4 | 1 | C |
| 9 | 304 | 9.8 | 24 | C | 7.5 | -33 | 343 | 5.3 | -1.2 | -3.8 | 3 | C |
| 10 | 329 | 10.0 | 30 | C | 8.1 | -9 | 289 | 2.3 | -6.5 | -1.8 | 2 | C |
| 11 | 331 | 9.5 | 30 | C | 8.3 | 3 | 289 | 2.6 | -7.3 | -0.3 | 2 | C |
| 12 | 308 | 10.2 | 29 | C | 8.2 | 6 | 323 | 5.2 | -3.9 | 0.3 | 4 | C |
| 13 | 311 | 10.3 | 34 | C | 7.8 | 14 | 330 | 5.0 | -3.0 | 1.2 | 4 | C |
| 14 | 343 | 9.0 | 36 | C | 8.2 | 55 | 273 | 0.2 | -5.3 | 5.7 | 2 | C |
| 15 | 328 | 8.7 | 36 | C | 8.8 | 44 | 295 | 2.5 | -6.3 | 4.7 | 3 | C |
| 16 | 341 | 9.2 | 42 | C | 8.8 | 34 | 298 | 2.8 | -6.2 | 2.7 | 4 | C |
| 17 | 339 | 8.9 | 51 | C | 9.2 | 9 | 291 | 3.0 | -8.1 | -0.9 | 2 | C |
| 18 | 344 | 13.6 | 61 | C | 7.4 | 3 | 285 | 0.8 | -3.0 | -0.9 | 7 | C |
| 19 | 337 | 13.2 | 37 | C | 9.2 | -18 | 118 | -4.1 | 8.0 | 0.3 | 2 | C |
| 20 | 343 | 14.3 | 34 | C | 10.1 | 32 | 111 | -3.0 | 4.8 | 8.0 | 2 | C |
| 21 | 344 | 14.4 | 33 | C | 9.8 | 15 | 111 | -3.1 | 6.1 | 5.8 | 3 | C |
| 22 | 344 | 14.4 | 32 | C | 10.3 | -5 | 103 | -2.2 | 8.9 | 3.9 | 2 | C |
| 23 | 343 | 13.3 | 35 | C | 10.5 | 9 | 106 | -2.8 | 7.5 | 6.0 | 3 | C |
| 24 | 341 | 11.5 | 42 | C | 10.6 | 10 | 110 | -3.5 | 7.5 | 6.1 | 2 | C |

### MAY 6, 1979

126

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 7.2 | 134 | C | 9.7 | 23 | 114 | -3.3 | 5.1 | 6.5 | 3 | C |
| 2 | 386 | 5.2 | 157 | C | 9.2 | 42 | 143 | -4.7 | 0.9 | 6.3 | 4 | C |
| 3 | 413 | 4.5 | 196 | C | 9.4 | 27 | 117 | -3.4 | 4.7 | 6.1 | 4 | C |
| 4 | 419 | 3.6 | 188 | C | 10.2 | 29 | 129 | -5.1 | 4.3 | 6.3 | 4 | C |
| 5 | 417 | 3.5 | 165 | C | 10.5 | 31 | 124 | -4.9 | 5.3 | 7.2 | 2 | C |
| 6 | 424 | 3.5 | 126 | C | 10.5 | 3 | 128 | -6.0 | 7.3 | 2.3 | 3 | C |
| 7 | 409 | 3.2 | 113 | C | 10.6 | 18 | 131 | -6.2 | 6.5 | 4.4 | 3 | C |
| 8 | 411 | 4.2 | 152 | C | 9.7 | 0 | 123 | -4.7 | 7.1 | 1.1 | 4 | C |
| 9 | 411 | 4.6 | 154 | C | 9.7 | -6 | 120 | -4.1 | 7.4 | -0.0 | 4 | C |
| 10 | 419 | 4.0 | 122 | C | 9.0 | 7 | 124 | -4.6 | 6.8 | 1.7 | 2 | C |
| 11 | 437 | 3.7 | 148 | C | 7.6 | 22 | 127 | -4.0 | 5.0 | 3.1 | 2 | C |
| 12 | 419 | 3.9 | 127 | C | 7.2 | 23 | 140 | -4.7 | 3.7 | 3.0 | 2 | C |
| 13 | 401 | 3.8 | 128 | C | 7.1 | 12 | 146 | -5.6 | 3.7 | 1.8 | 1 | C |
| 14 | 429 | 4.8 | 128 | C | 6.7 | 40 | 102 | -0.9 | 3.5 | 4.0 | 4 | C |
| 15 | 416 | 5.3 | 123 | C | 6.3 | -7 | 113 | -1.8 | 4.3 | 0.2 | 4 | C |
| 16 | 404 | 4.5 | 105 | C | 6.2 | 15 | 137 | -3.2 | 2.7 | 1.8 | 4 | C |
| 17 | 399 | 4.6 | 105 | C | 6.4 | 6 | 123 | -3.2 | 4.4 | 2.0 | 2 | C |
| 18 | 393 | 4.4 | 92 | C | 6.6 | 14 | 142 | -4.9 | 3.1 | 2.8 | 1 | C |
| 19 | 392 | 4.7 | 89 | C | 6.4 | 11 | 136 | -4.4 | 3.5 | 2.7 | 1 | C |
| 20 | 416 | 8.3 | 190 | L | 5.0 | 15 | 135 | -3.2 | 2.4 | 2.4 | 2 | C |
| 21 | 387 | 5.7 | 83 | J | 5.8 | 21 | 122 | -2.7 | 2.9 | 3.8 | 1 | C |
| 22 | 374 | 7.2 | 59 | J | 6.4 | 40 | 122 | -2.2 | 1.5 | 4.8 | 3 | J |
| 23 | 379 | 7.4 | 63 | J | 6.4 | 26 | 120 | -2.2 | 2.4 | 3.8 | 4 | J |
| 24 | 365 | 6.9 | 50 | J | 6.0 | 8 | 149 | -3.4 | 1.5 | 1.5 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 360 | 7.8 | 48 | J | 5.9 | -13 | 145 | -4.7 | 3.5 | 0.3 | 0 | J |
| 2 | 366 | 7.8 | 40 | J | 6.5 | 35 | 114 | -1.9 | 2.5 | 4.8 | 3 | J |
| 3 | 359 | 8.6 | 47 | J | 6.6 | 35 | 118 | -2.3 | 2.6 | 4.8 | 3 | J |
| 4 | 365 | 8.2 | 45 | J | 6.7 | 35 | 115 | -2.2 | 3.2 | 5.0 | 2 | J |
| 5 | 378 | 9.2 | 35 | J | 7.3 | 75 | 115 | -0.8 | -0.4 | 7.2 | 1 | J |
| 6 | 373 | 8.0 | 43 | J | 7.9 | 21 | 107 | -1.8 | 5.2 | 3.7 | 4 | J |
| 7 | 374 | 7.4 | 34 | J | 8.1 | 40 | 95 | -0.5 | 4.9 | 6.1 | 2 | J |
| 8 | 374 | 6.7 | 58 | J | 7.9 | -9 | 116 | -3.0 | 6.2 | -0.1 | 4 | J |
| 9 | 359 | 6.6 | 49 | J | 8.4 | -4 | 123 | -4.4 | 6.8 | 0.2 | 2 | J |
| 10 | 361 | 6.7 | 40 | C | 8.3 | -28 | 117 | -3.2 | 6.7 | -3.2 | 2 | C |
| 11 | 371 | 7.2 | 37 | J | 8.4 | -28 | 120 | -3.6 | 6.6 | -3.3 | 2 | J |
| 12 | 363 | 7.1 | 41 | J | 8.3 | -44 | 140 | -4.5 | 4.2 | -5.3 | 2 | J |
| 13 | 366 | 8.3 | 38 | J | 7.9 | -42 | 138 | -4.0 | 4.1 | -4.5 | 3 | J |
| 14 | 371 | 8.1 | 36 | J | 7.9 | -45 | 130 | -3.3 | 4.5 | -4.5 | 3 | J |
| 15 | 342 | 8.0 | 41 | J | 7.7 | -15 | 165 | -6.7 | 2.1 | -1.5 | 3 | J |
| 16 | 345 | 8.2 | 52 | J | 7.6 | 17 | 155 | -6.0 | 2.3 | 2.6 | 3 | J |
| 17 | 375 | 9.2 | 51 | J | 7.6 | -41 | 119 | -2.6 | 5.9 | -3.2 | 2 | J |
| 18 | 370 | 10.0 | 40 | J | 7.3 | -62 | 139 | -2.5 | 4.2 | -5.2 | 1 | J |
| 19 | 363 | 9.8 | 42 | J | 7.1 | -50 | 125 | -2.4 | 5.1 | -3.3 | 2 | J |
| 20 | 361 | 10.2 | 40 | J | 6.7 | -37 | 117 | -2.0 | 4.9 | -1.3 | 4 | J |
| 21 | 362 | 9.5 | 37 | J | 7.1 | -54 | 150 | -2.8 | 3.5 | -3.2 | 4 | J |
| 22 | 359 | 9.9 | 39 | J | 7.2 | -63 | 178 | -3.3 | 3.1 | -5.6 | 1 | J |
| 23 | 338 | 9.6 | 26 | J | 6.8 | -16 | 152 | -5.7 | 3.5 | -0.2 | 1 | J |
| 24 | 337 | 10.1 | 34 | J | 6.8 | 3 | 145 | -5.4 | 3.2 | 2.1 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 355 | 11.3 | 46 | C | 6.8 | 28 | 88 | 0.2 | 3.6 | 5.0 | 2 | C |
| 345 | 11.9 | 42 | C | 7.0 | 21 | 112 | -2.3 | 4.1 | 4.4 | 2 | C |
| 352 | 11.4 | 45 | C | 7.5 | -4 | 106 | -1.8 | 6.0 | 2.0 | 3 | C |
| 350 | 12.0 | 50 | C | 7.4 | 13 | 112 | -2.3 | 4.8 | 3.2 | 3 | C |
| 353 | 11.9 | 53 | C | 7.7 | 1 | 107 | -2.1 | 6.6 | 2.1 | 2 | C |
| 360 | 11.4 | 56 | C | 7.5 | 4 | 97 | -0.4 | 3.4 | 1.1 | 6 | C |
| 372 | 12.1 | 63 | J | 8.2 | -46 | 93 | -0.3 | 6.6 | -4.7 | 1 | J |
| 366 | 10.9 | 66 | J | 8.8 | -20 | 124 | -4.5 | 7.0 | -1.9 | 2 | J |
| 366 | 10.2 | 60 | J | 9.4 | -25 | 124 | -4.7 | 7.4 | -3.1 | 1 | J |
| 363 | 14.7 | 58 | J | 8.2 | -1 | 111 | -2.8 | 7.4 | 0.5 | 2 | J |
| 356 | 16.3 | 62 | J | 8.7 | 15 | 129 | -4.6 | 5.5 | 2.4 | 4 | J |
| 346 | 17.6 | 50 | J | 9.0 | 20 | 141 | -6.4 | 5.0 | 3.4 | 2 | J |
| 344 | 17.5 | 48 | J | 9.7 | 36 | 153 | -6.6 | 2.8 | 5.6 | 3 | J |
| 348 | 18.0 | 38 | J | 9.9 | 52 | 185 | -5.5 | -1.4 | 7.0 | 4 | J |
| 356 | 18.9 | 43 | J | 10.6 | 48 | 161 | -5.6 | 0.8 | 6.8 | 6 | J |
| 353 | 15.3 | 58 | J | 11.2 | 18 | 156 | -7.6 | 2.7 | 3.4 | 7 | J |
| 362 | 12.1 | 43 | J | 11.6 | -18 | 114 | -4.4 | 10.5 | -0.7 | 2 | J |
| 370 | 11.6 | 40 | J | 11.4 | -6 | 123 | -6.1 | 9.2 | 2.0 | 2 | J |
| 364 | 10.6 | 38 | J | 11.9 | -14 | 129 | -7.1 | 9.2 | 0.7 | 2 | J |
| 371 | 10.9 | 31 | J | 12.1 | -18 | 119 | -5.5 | 10.5 | 0.8 | 2 | J |
| 386 | 11.1 | 34 | J | 11.8 | -23 | 104 | -2.5 | 11.0 | 0.6 | 3 | J |
| 357 | 13.3 | 60 | J | 10.1 | -2 | 138 | -6.1 | 5.0 | 2.3 | 6 | J |
| 363 | 12.2 | 55 | J | 11.6 | -8 | 125 | -6.5 | 9.0 | 3.0 | 2 | J |
| 370 | 11.8 | 48 | J | 11.9 | -8 | 132 | -7.5 | 8.1 | 2.5 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 361 | 11.6 | 56 | C | 12.9 | 5 | 136 | -9.0 | 7.4 | 4.9 | 2 | C |
| 2 | 374 | 11.8 | 65 | C | 12.9 | 4 | 138 | -9.3 | 7.2 | 4.3 | 2 | C |
| 3 | 385 | 11.7 | 73 | C | 12.7 | 14 | 135 | -8.2 | 6.5 | 5.8 | 4 | C |
| 4 | 378 | 11.6 | 68 | C | 12.7 | 19 | 154 | -9.9 | 3.2 | 5.2 | 4 | C |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 435 | 14.0 | 127 | J | 12.9 | -3 | 123 | -6.3 | 9.7 | 1.2 | 5 | J |
| 8 | 437 | 14.2 | 134 | J | 12.6 | 4 | 124 | -6.0 | 8.7 | 2.0 | 7 | J |
| 9 | 429 | 11.5 | 89 | J | 13.0 | -2 | 124 | -6.8 | 10.1 | 0.6 | 4 | J |
| 10 | 448 | 11.5 | 103 | J | 12.5 | -16 | 120 | -4.5 | 8.0 | -1.9 | 8 | J |
| 11 | 450 | 10.0 | 132 | J | 11.2 | -5 | 124 | -5.6 | 8.3 | -0.3 | 5 | J |
| 12 | 467 | 10.2 | 117 | J | 11.3 | -14 | 121 | -5.2 | 8.9 | -1.9 | 4 | J |
| 13 | 491 | 9.5 | 136 | J | 10.6 | -16 | 115 | -3.7 | 8.0 | -1.8 | 6 | J |
| 14 | 493 | 9.9 | 167 | J | 10.1 | -8 | 115 | -3.9 | 8.4 | -0.3 | 4 | J |
| 15 | 497 | 9.2 | 157 | J | 9.2 | 22 | 139 | -4.9 | 3.8 | 3.3 | 6 | J |
| 16 | 503 | 7.6 | 140 | J | 9.2 | 29 | 153 | -6.9 | 2.5 | 4.9 | 3 | J |
| 17 | 505 | 7.5 | 134 | J | 8.5 | -19 | 147 | -5.7 | 4.2 | -1.3 | 5 | J |
| 18 | 499 | 6.5 | 131 | J | 8.0 | 20 | 175 | -6.6 | -0.2 | 2.5 | 4 | J |
| 19 | 510 | 8.0 | 171 | J | 7.7 | -21 | 179 | -5.9 | 0.9 | -2.1 | 4 | J |
| 20 | 509 | 6.9 | 116 | J | 7.7 | -16 | 191 | -6.2 | -0.3 | -2.2 | 4 | J |
| 21 | 515 | 6.1 | 99 | J | 8.2 | -2 | 152 | -6.5 | 3.2 | 1.3 | 3 | J |
| 22 | 539 | 5.4 | 118 | J | 8.4 | 18 | 121 | -3.8 | 4.5 | 5.0 | 3 | J |
| 23 | 545 | 5.2 | 110 | J | 7.9 | 0 | 117 | -2.9 | 5.0 | 2.6 | 5 | J |
| 24 | 509 | 6.3 | 140 | J | 7.0 | 5 | 124 | -3.3 | 4.1 | 2.7 | 4 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 482 | 6.5 | 161 | L | 7.6 | 14 | 162 | -6.9 | 1.2 | 2.6 | 2 | J |
| 431 | 6.0 | 71 | C | 7.5 | 7 | 170 | -7.3 | 0.9 | 1.3 | 1 | C |
| 467 | 4.2 | 79 | J | 7.3 | 8 | 172 | -7.0 | 0.5 | 1.3 | 1 | J |
| 476 | 4.4 | 95 | J | 7.4 | 0 | 171 | -7.0 | 1.1 | 0.4 | 2 | J |
| 490 | 5.5 | 50 | J | 9.3 | 5 | 150 | -7.9 | 4.2 | 2.0 | 2 | J |
| 471 | 6.0 | 64 | J | 8.8 | 5 | 148 | -7.3 | 4.3 | 1.8 | 2 | J |
| 463 | 7.0 | 122 | J | 8.6 | 6 | 139 | -6.4 | 5.3 | 1.9 | 1 | C |
| 483 | 4.6 | 101 | J | 9.2 | 6 | 132 | -6.0 | 6.4 | 1.8 | 2 | C |
| 480 | 3.9 | 101 | J | 9.0 | 1 | 137 | -6.5 | 6.0 | 0.8 | 2 | J |
| 422 | 6.7 | 63 | J | 8.5 | 5 | 152 | -7.5 | 3.9 | 1.0 | 1 | J |
| 410 | 9.1 | 60 | J | 8.0 | 7 | 137 | -5.7 | 5.3 | 1.3 | 2 | J |
| 414 | 9.4 | 67 | J | 7.6 | -1 | 136 | -4.5 | 4.4 | 0.2 | 4 | J |
| 416 | 8.8 | 67 | J | 7.8 | -3 | 126 | -4.1 | 5.7 | 0.1 | 3 | J |
| 420 | 9.6 | 80 | J | 8.1 | 14 | 132 | -4.4 | 4.6 | 2.2 | 5 | J |
| 434 | 10.4 | 93 | J | 8.3 | 10 | 121 | -3.1 | 5.0 | 1.9 | 5 | J |
| 423 | 7.1 | 81 | C | 9.8 | 25 | 152 | -7.0 | 2.9 | 4.4 | 4 | J |
| 460 | 8.9 | 112 | J | 9.3 | 9 | 146 | -6.3 | 3.8 | 2.3 | 5 | J |
| 455 | 9.0 | 107 | J | 9.2 | 16 | 146 | -5.7 | 3.0 | 3.1 | 6 | J |
| 449 | 8.9 | 104 | J | 9.3 | -5 | 152 | -6.7 | 3.5 | 0.7 | 5 | J |
| 451 | 8.4 | 95 | J | 9.2 | -7 | 137 | -6.1 | 5.6 | 1.4 | 3 | J |
| 446 | 7.7 | 74 | J | 9.5 | 9 | 131 | -6.0 | 5.5 | 4.3 | 2 | J |
| 437 | 8.0 | 78 | J | 9.3 | 4 | 154 | -7.7 | 3.1 | 2.3 | 3 | J |
| 438 | 7.1 | 74 | J | 9.9 | 6 | 144 | -7.4 | 4.3 | 3.3 | 4 | J |
| 447 | 6.7 | 71 | J | 9.7 | 13 | 145 | -7.5 | 3.7 | 4.3 | 3 | J |

MAY 11, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 450 | 6.8 | 67 | J | 9.8 | 5 | 133 | -6.5 | 5.9 | 3.8 | 2 | J |
| 2 | 451 | 7.4 | 87 | J | 9.5 | -3 | 153 | -7.7 | 3.7 | 1.2 | 4 | J |
| 3 | 447 | 8.1 | 98 | J | 9.1 | 10 | 158 | -7.7 | 2.4 | 2.5 | 4 | J |
| 4 | 441 | 8.0 | 114 | J | 8.8 | 1 | 169 | -8.3 | 1.5 | 0.7 | 2 | J |
| 5 | 456 | 9.3 | 121 | J | 10.0 | 5 | 150 | -7.6 | 4.0 | 1.9 | 5 | J |
| 6 | 476 | 10.2 | 102 | J | 11.4 | -15 | 139 | -7.4 | 6.9 | -1.1 | 5 | J |
| 7 | 478 | 10.3 | 120 | J | 11.1 | -44 | 155 | -6.7 | 4.3 | -6.5 | 4 | J |
| 8 | 480 | 10.2 | 118 | J | 10.4 | -11 | 136 | -6.2 | 6.2 | -0.9 | 5 | J |
| 9 | 457 | 9.5 | 60 | J | 10.5 | 2 | 148 | -8.6 | 5.3 | 0.9 | 2 | J |
| 10 | 478 | 10.2 | 105 | J | 9.8 | 7 | 144 | -6.5 | 4.6 | 1.3 | 6 | J |
| 11 | 485 | 10.4 | 136 | J | 8.6 | 33 | 137 | -3.7 | 3.2 | 3.5 | 6 | J |
| 12 | 488 | 10.1 | 120 | J | 8.7 | -7 | 144 | -5.9 | 4.4 | -0.6 | 4 | J |
| 13 | 504 | 10.5 | 136 | J | 8.8 | 0 | 133 | -4.5 | 4.8 | 0.4 | 6 | J |
| 14 | 509 | 10.6 | 151 | J | 8.2 | -46 | 178 | -3.7 | 0.5 | -3.8 | 6 | J |
| 15 | 512 | 11.2 | 162 | J | 9.1 | -54 | 199 | -3.5 | -0.4 | -5.2 | 6 | J |
| 16 | 500 | 8.9 | 156 | J | 8.1 | -22 | 191 | -6.0 | -0.6 | -2.7 | 5 | J |
| 17 | 501 | 9.5 | 144 | J | 8.3 | -11 | 154 | -4.9 | 2.6 | -0.4 | 6 | J |
| 18 | 514 | 8.9 | 142 | J | 8.0 | 8 | 150 | -5.0 | 2.5 | 1.7 | 6 | J |
| 19 | 541 | 8.9 | 119 | J | 7.5 | 59 | 213 | -2.1 | -2.8 | 3.3 | 6 | J |
| 20 | 536 | 8.3 | 133 | J | 7.9 | 32 | 112 | -2.3 | 3.6 | 5.7 | 3 | J |
| 21 | 508 | 8.0 | 101 | J | 7.5 | -21 | 137 | -4.5 | 4.8 | -0.3 | 4 | J |
| 22 | 507 | 7.7 | 107 | J | 7.1 | 18 | 144 | -4.5 | 2.1 | 3.1 | 4 | J |
| 23 | 506 | 6.7 | 80 | J | 7.2 | 30 | 164 | -4.8 | -0.1 | 3.2 | 4 | J |
| 24 | 502 | 6.7 | 74 | J | 7.7 | -2 | 158 | -6.3 | 2.4 | 0.9 | 3 | J |

MAY 12, 1979

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 498 | 6.4 | 78 | J | 7.6 | 0 | 156 | -6.5 | 2.6 | 1.2 | 3 | J |
| 496 | 6.2 | 74 | J | 7.5 | -5 | 157 | -6.5 | 2.8 | 0.5 | 2 | J |
| 515 | 6.3 | 90 | J | 7.3 | 21 | 135 | -3.9 | 2.9 | 3.4 | 4 | J |
| 523 | 5.7 | 108 | J | 6.8 | 19 | 137 | -4.1 | 3.1 | 3.1 | 3 | J |
| 516 | 5.7 | 81 | J | 7.1 | -4 | 138 | -4.8 | 4.3 | 0.7 | 3 | J |
| 506 | 4.9 | 73 | J | 7.2 | 16 | 141 | -5.0 | 3.6 | 2.7 | 2 | J |
| 494 | 5.1 | 65 | J | 7.6 | 8 | 146 | -5.7 | 3.7 | 1.6 | 3 | J |
| 502 | 6.2 | 58 | J | 7.5 | -2 | 122 | -3.7 | 5.9 | 0.5 | 3 | J |
| 504 | 6.3 | 64 | J | 7.5 | -8 | 127 | -3.9 | 5.2 | -0.4 | 4 | J |
| 507 | 6.5 | 66 | J | 7.4 | 23 | 139 | -3.7 | 3.1 | 2.3 | 5 | J |
| 499 | 5.5 | 76 | C | 7.6 | 10 | 144 | -5.3 | 3.8 | 1.4 | 4 | J |
| 492 | 7.1 | 122 | J | 7.3 | 5 | 137 | -4.4 | 4.1 | 0.8 | 4 | J |
| 472 | 7.5 | 140 | J | 7.2 | 9 | 190 | -5.2 | -1.0 | 0.8 | 5 | J |
| 490 | 5.5 | 81 | C | 7.1 | -12 | 153 | -4.7 | 2.5 | -0.9 | 4 | J |
| 504 | 7.4 | 115 | J | 7.3 | -5 | 141 | -4.3 | 3.5 | 0.0 | 5 | J |
| 477 | 6.7 | 145 | J | 7.3 | -1 | 143 | -5.3 | 3.9 | 0.7 | 3 | J |
| 481 | 6.2 | 92 | J | 7.3 | 5 | 148 | -5.7 | 3.3 | 1.5 | 3 | J |
| 484 | 6.1 | 112 | J | 7.8 | -8 | 147 | -6.0 | 4.0 | 0.3 | 2 | C |
| 502 | 5.1 | 71 | J | 7.7 | 5 | 140 | -5.6 | 4.2 | 2.3 | 2 | J |
| 528 | 4.9 | 100 | J | 7.4 | 7 | 143 | -5.0 | 3.1 | 2.2 | 4 | J |
| 541 | 5.3 | 151 | J | 7.5 | 16 | 115 | -2.3 | 3.8 | 3.6 | 5 | J |
| 527 | 5.2 | 135 | J | 7.4 | -4 | 126 | -3.8 | 4.9 | 2.0 | 3 | J |
| 536 | 5.2 | 123 | J | 7.5 | 10 | 113 | -2.5 | 4.7 | 3.7 | 4 | J |
| 518 | 5.3 | 83 | J | 7.9 | 15 | 146 | -5.1 | 2.4 | 3.0 | 5 | J |

MAY 13, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 517 | 5.1 | 85 | J | 7.8 | 4 | 144 | -4.9 | 3.1 | 1.9 | 5 | J |
| 2 | 521 | 5.1 | 87 | J | 7.5 | 12 | 127 | -3.9 | 4.3 | 3.3 | 3 | J |
| 3 | 521 | 5.3 | 96 | J | 7.1 | 10 | 145 | -4.8 | 2.7 | 2.1 | 4 | J |
| 4 | 503 | 5.1 | 75 | J | 7.0 | -4 | 154 | -5.8 | 2.8 | 0.5 | 2 | J |
| 5 | 519 | 5.5 | 99 | J | 7.1 | 24 | 121 | -3.0 | 4.2 | 3.8 | 3 | J |
| 6 | 504 | 6.0 | 80 | J | 7.4 | 15 | 167 | -5.5 | 0.9 | 1.7 | 4 | J |
| 7 | 527 | 5.6 | 106 | J | 7.3 | 0 | 105 | -1.3 | 4.9 | 0.8 | 5 | J |
| 8 | 516 | 5.1 | 80 | J | 7.4 | 11 | 118 | -3.1 | 5.7 | 2.0 | 3 | J |
| 9 | 508 | 5.9 | 98 | J | 7.1 | 11 | 101 | -1.1 | 5.7 | 1.6 | 4 | J |
| 10 | 498 | 6.7 | 113 | L | 7.6 | 19 | 114 | -2.4 | 5.2 | 2.3 | 4 | J |
| 11 | 487 | 7.1 | 123 | L | 7.1 | 13 | 134 | -4.0 | 4.1 | 1.6 | 3 | C |
| 12 | 507 | 8.1 | 125 | L | 6.6 | 73 | 259 | -0.3 | -1.6 | 4.5 | 3 | C |
| 13 | 508 | 7.9 | 101 | L | 6.8 | 24 | 278 | 0.8 | -5.7 | 2.1 | 2 | C |
| 14 | 504 | 6.4 | 104 | C | 7.0 | 60 | 264 | -0.4 | -3.7 | 5.1 | 3 | C |
| 15 | 484 | 6.1 | 99 | C | 7.1 | 23 | 236 | -3.1 | -4.9 | 1.7 | 3 | C |
| 16 | 476 | 5.1 | 116 | C | 6.6 | -26 | 166 | -4.8 | 1.6 | -2.1 | 3 | C |
| 17 | 490 | 5.1 | 127 | C | 5.9 | 28 | 123 | -2.2 | 2.7 | 3.0 | 3 | C |
| 18 | 475 | 5.0 | 126 | C | 6.1 | 38 | 180 | -3.9 | -1.0 | 2.9 | 3 | C |
| 19 | 469 | 4.8 | 111 | C | 6.3 | 30 | 191 | -4.9 | -1.9 | 2.3 | 2 | C |
| 20 | 482 | 4.8 | 120 | C | 6.3 | 24 | 134 | -2.9 | 2.0 | 2.9 | 4 | C |
| 21 | 501 | 4.9 | 107 | C | 6.7 | 70 | 137 | -1.3 | -1.1 | 5.1 | 3 | C |
| 22 | 491 | 5.0 | 113 | C | 6.8 | 42 | 117 | -1.7 | 1.5 | 4.5 | 4 | C |
| 23 | 489 | 5.1 | 107 | C | 6.9 | -1 | 111 | -2.2 | 5.3 | 2.6 | 2 | C |
| 24 | 477 | 5.3 | 105 | C | 7.0 | 19 | 160 | -4.3 | 0.7 | 2.1 | 4 | C |

MAY 14, 1979

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 475 | 5.1 | 91 | C | 6.7 | 29 | 158 | -4.4 | 0.6 | 3.1 | 3 | C |
| 491 | 5.0 | 86 | C | 6.9 | 34 | 144 | -3.1 | 1.1 | 3.2 | 5 | C |
| 462 | 4.6 | 73 | C | 7.0 | 13 | 158 | -5.8 | 1.7 | 2.1 | 3 | C |
| 476 | 4.7 | 85 | C | 7.0 | -2 | 142 | -4.6 | 3.5 | 0.9 | 3 | C |
| 459 | 4.6 | 77 | C | 7.5 | -2 | 154 | -6.6 | 3.2 | 0.6 | 1 | C |
| 462 | 4.5 | 74 | C | 7.3 | 25 | 166 | -6.0 | 0.9 | 3.1 | 2 | C |
| 454 | 4.5 | 69 | C | 7.1 | -2 | 159 | -6.5 | 2.5 | 0.1 | 1 | C |
| 506 | 5.7 | 80 | C | 7.2 | 25 | 83 | 0.6 | 4.3 | 2.7 | 4 | C |
| 483 | 4.8 | 81 | C | 7.2 | -3 | 113 | -2.1 | 5.0 | 0.1 | 4 | C |
| 454 | 5.3 | 85 | C | 7.3 | 10 | 124 | -3.3 | 4.9 | 1.4 | 3 | C |
| 455 | 5.3 | 51 | C | 7.7 | -3 | 137 | -5.0 | 4.7 | -0.2 | 3 | C |
| | | | | 7.6 | -30 | 151 | -4.9 | 2.9 | -3.1 | 4 | C |
| 471 | 5.9 | 94 | C | 7.0 | -8 | 128 | -3.7 | 4.9 | -0.6 | 2 | C |
| 480 | 6.2 | 103 | C | 6.7 | 9 | 121 | -2.5 | 3.9 | 1.1 | 4 | C |
| 477 | 6.3 | 115 | C | 7.0 | 4 | 131 | -3.7 | 4.2 | 1.0 | 3 | C |
| 476 | 6.7 | 120 | C | 6.9 | 35 | 178 | -3.5 | -0.3 | 2.4 | 5 | C |
| 473 | 6.3 | 117 | C | 7.1 | -15 | 146 | -3.9 | 2.8 | -0.6 | 5 | C |
| 488 | 6.4 | 119 | C | 7.0 | 48 | 249 | -1.2 | -4.2 | 2.7 | 4 | C |
| 488 | 6.0 | 119 | C | 6.4 | 58 | 242 | -1.1 | -3.4 | 3.0 | 3 | C |
| 487 | 5.8 | 137 | C | 6.2 | 27 | 153 | -3.3 | 0.8 | 2.4 | 4 | C |
| 471 | 5.4 | 120 | C | 5.8 | 2 | 187 | -5.1 | -0.6 | -0.1 | 2 | C |
| 492 | 5.8 | 125 | C | 6.3 | 43 | 162 | -3.0 | -0.4 | 3.1 | 3 | C |
| 502 | 5.0 | 108 | C | 7.9 | 25 | 104 | -1.7 | 4.5 | 5.7 | 2 | C |
| 502 | 5.4 | 110 | C | 6.7 | 63 | 133 | -1.2 | -0.4 | 3.8 | 5 | C |

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MAY 15, 1979 135

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 496 | 5.0 | 113 | C | 6.8 | 8 | 133 | -2.7 | 2.4 | 1.8 | 5 | C |
| 2 | 502 | 4.5 | 133 | C | 7.0 | 24 | 132 | -3.3 | 2.6 | 3.5 | 3 | C |
| 3 | 529 | 4.2 | 145 | C | 7.7 | 35 | 107 | -1.5 | 3.5 | 5.2 | 3 | C |
| 4 | 485 | 4.2 | 115 | C | 7.6 | 6 | 142 | -4.8 | 3.4 | 1.8 | 4 | C |
| 5 | 494 | 4.5 | 124 | C | 7.8 | -29 | 128 | -4.0 | 5.7 | -2.1 | 2 | C |
| 6 | 493 | 4.5 | 107 | C | 7.5 | -26 | 133 | -4.1 | 4.9 | -2.0 | 3 | C |
| 7 | 508 | 4.1 | 137 | C | 6.8 | -5 | 119 | -2.7 | 4.9 | 0.2 | 3 | C |
| 8 | 509 | 3.4 | 157 | C | 7.6 | -1 | 125 | -4.2 | 5.8 | 0.5 | 2 | C |
| 9 | 519 | 3.1 | 114 | C | 8.1 | 8 | 119 | -3.5 | 6.4 | 1.5 | 3 | C |
| 10 | 530 | 3.3 | 97 | C | 7.6 | 0 | 116 | -3.0 | 6.2 | 0.3 | 3 | C |
| 11 | 527 | 3.5 | 118 | C | 7.0 | 14 | 143 | -4.0 | 3.0 | 1.4 | 4 | C |
| 12 | 515 | 3.4 | 109 | C | 7.1 | 11 | 136 | -4.5 | 4.2 | 1.4 | 3 | C |
| 13 | 509 | 3.5 | 90 | C | 6.8 | -28 | 151 | -4.4 | 2.6 | -2.5 | 3 | C |
| 14 | 525 | 3.6 | 92 | C | 6.4 | 12 | 118 | -2.6 | 4.8 | 1.6 | 2 | C |
| 15 | 525 | 3.7 | 102 | C | 6.4 | -12 | 123 | -2.9 | 4.5 | -0.5 | 3 | C |
| 16 | 514 | 3.3 | 83 | C | 6.0 | 24 | 140 | -3.3 | 2.3 | 2.3 | 3 | C |
| 17 | 504 | 3.2 | 83 | C | 5.9 | -7 | 131 | -3.2 | 3.8 | 0.3 | 3 | C |
| 18 | 496 | 3.2 | 84 | C | 5.8 | -1 | 142 | -3.9 | 2.9 | 0.8 | 3 | C |
| 19 | 502 | 3.0 | 75 | C | 5.9 | 5 | 138 | -3.7 | 3.0 | 1.6 | 3 | C |
| 20 | 511 | 3.0 | 82 | C | 5.6 | -27 | 137 | -2.5 | 2.9 | -0.7 | 3 | C |
| 21 | 497 | 3.3 | 97 | C | 5.5 | -13 | 131 | -3.1 | 3.7 | 0.5 | 2 | C |
| 22 | 515 | 2.7 | 97 | C | 5.8 | 20 | 113 | -2.0 | 3.3 | 3.6 | 2 | C |
| 23 | 500 | 2.6 | 94 | C | 4.9 | -25 | 137 | -2.1 | 2.4 | -0.3 | 3 | C |
| 24 | 486 | 2.6 | 88 | C | 5.0 | 9 | 135 | -3.1 | 2.5 | 2.0 | 2 | C |

MAY 16, 1979 136

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 483 | 2.5 | 76 | C | 5.1 | 8 | 131 | -3.2 | 3.0 | 2.2 | 1 | C |
| 2 | 474 | 3.1 | 63 | C | 4.9 | -24 | 147 | -3.5 | 2.8 | -0.9 | 1 | C |
| 3 | 473 | 3.3 | 71 | C | 4.7 | -18 | 151 | -3.7 | 2.4 | -0.6 | 1 | C |
| 4 | 468 | 3.2 | 75 | C | 4.3 | -8 | 148 | -3.0 | 2.0 | 0.1 | 2 | C |
| 5 | 485 | 3.5 | 86 | C | 4.6 | 41 | 68 | 1.2 | 2.3 | 3.5 | 1 | C |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 447 | 3.2 | 69 | C | 4.8 | 35 | 131 | -2.5 | 2.6 | 3.0 | 1 | C |
| 9 | 450 | 3.5 | 63 | C | 3.9 | 46 | 118 | -1.0 | 1.8 | 2.4 | 2 | C |
| 10 | 453 | 3.6 | 53 | C | 4.0 | 35 | 65 | 1.3 | 2.5 | 2.2 | 2 | C |
| 11 | 433 | 3.5 | 72 | C | 2.6 | 14 | 87 | 0.1 | 2.1 | 0.6 | 2 | C |
| 12 | 436 | 3.6 | 59 | C | 3.7 | 5 | 116 | -1.4 | 2.7 | 0.4 | 2 | C |
| 13 | 431 | 3.6 | 63 | C | 3.7 | 40 | 136 | -1.9 | 1.7 | 2.3 | 1 | C |
| 14 | 444 | 3.6 | 40 | C | 3.8 | 71 | 82 | 0.2 | 0.9 | 3.5 | 1 | C |
| 15 | 443 | 4.0 | 37 | C | 4.3 | 56 | 72 | 0.7 | 1.7 | 3.6 | 1 | C |
| 16 | 455 | 3.5 | 45 | C | 4.0 | 17 | 91 | -0.0 | 3.2 | 1.7 | 2 | C |
| 17 | 457 | 3.6 | 56 | C | 3.5 | 14 | 88 | 0.1 | 1.9 | 1.0 | 3 | C |
| 18 | 411 | 4.0 | 53 | C | 3.4 | 7 | 168 | -3.0 | 0.5 | 0.5 | 1 | C |
| 19 | 419 | 4.0 | 52 | C | 3.7 | 29 | 96 | -0.2 | 1.4 | 1.7 | 3 | C |
| 20 | 418 | 4.2 | 44 | C | 3.9 | 23 | 70 | 0.9 | 1.8 | 1.9 | 3 | C |
| 21 | 409 | 4.5 | 45 | C | 4.0 | 16 | 153 | -2.6 | 0.9 | 1.3 | 2 | C |
| 22 | 415 | 5.0 | 39 | C | 4.5 | 0 | 124 | -2.4 | 3.2 | 1.6 | 1 | C |
| 23 | 412 | 4.9 | 49 | C | 3.9 | -7 | 142 | -2.7 | 2.1 | 0.5 | 1 | C |
| 24 | 408 | 5.3 | 44 | C | 4.3 | 2 | 155 | -3.7 | 1.5 | 0.8 | 2 | C |

MAY 17, 1979 137

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 400 | 5.9 | 41 | C | 5.2 | -13 | 175 | -4.9 | 0.8 | -0.9 | 1 | C |
| 2 | 397 | 5.3 | 49 | C | 4.9 | -14 | 175 | -4.7 | 0.8 | -0.9 | 1 | C |
| 3 | 398 | 5.1 | 51 | C | 4.7 | -19 | 171 | -4.2 | 1.1 | -1.2 | 1 | C |
| 4 | 399 | 5.1 | 48 | C | 4.7 | 0 | 130 | -2.8 | 3.1 | 0.9 | 2 | C |
| 5 | 397 | 4.8 | 49 | C | 4.8 | -19 | 145 | -3.6 | 2.8 | -0.9 | 1 | C |
| 6 | 391 | 4.8 | 44 | C | 4.7 | -24 | 173 | -4.1 | 0.9 | -1.7 | 1 | C |
| 7 | 387 | 5.0 | 40 | C | 4.6 | -29 | 171 | -3.8 | 0.9 | -2.0 | 1 | C |
| 8 | 380 | 5.2 | 36 | C | 4.7 | -26 | 170 | -4.1 | 0.9 | -1.9 | 0 | C |
| 9 | 373 | 5.2 | 35 | C | 4.6 | -20 | 175 | -4.3 | 0.5 | -1.5 | 0 | C |
| 10 | 371 | 5.3 | 37 | C | 4.6 | -19 | 167 | -4.1 | 1.0 | -1.4 | 1 | C |
| 11 | 364 | 5.6 | 34 | C | 4.5 | -9 | 166 | -4.2 | 1.1 | -0.6 | 1 | C |
| 12 | 360 | 6.0 | 33 | C | 4.2 | -8 | 172 | -4.1 | 0.6 | -0.5 | 1 | C |
| 13 | 356 | 6.3 | 33 | C | 4.3 | -11 | 182 | -4.1 | -0.1 | -0.8 | 1 | C |
| 14 | 356 | 6.0 | 34 | C | 4.3 | -2 | 182 | -4.2 | -0.1 | -0.2 | 1 | C |
| 15 | 352 | 6.0 | 33 | C | 4.4 | -1 | 173 | -4.2 | 0.6 | -0.0 | 1 | C |
| 16 | 350 | 6.3 | 38 | C | 4.4 | 7 | 167 | -4.2 | 0.9 | 0.7 | 1 | C |
| 17 | 347 | 6.6 | 30 | C | 4.5 | 1 | 173 | -4.4 | 0.5 | 0.2 | 1 | C |
| 18 | 347 | 6.7 | 31 | C | 4.6 | 11 | 172 | -4.4 | 0.4 | 1.0 | 0 | C |
| 19 | 347 | 6.7 | 30 | C | 5.0 | 24 | 166 | -4.3 | 0.3 | 2.3 | 1 | C |
| 20 | 350 | 6.7 | 39 | C | 5.1 | 32 | 151 | -3.6 | 0.9 | 3.2 | 1 | C |
| 21 | 355 | 6.8 | 31 | C | 4.9 | 19 | 136 | -2.5 | 1.7 | 2.1 | 3 | C |
| 22 | 366 | 7.0 | 27 | C | 4.8 | 24 | 85 | 0.3 | 2.9 | 3.3 | 2 | C |
| 23 | 365 | 7.0 | 26 | C | 5.2 | 30 | 60 | 2.3 | 2.4 | 4.0 | 1 | C |
| 24 | 361 | 7.2 | 23 | C | 5.1 | 48 | 70 | 1.1 | 1.2 | 4.5 | 2 | C |

MAY 18, 1979 138

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 7.4 | 28 | C | 5.2 | 16 | 67 | 1.9 | 3.5 | 3.1 | 1 | C |
| 2 | 358 | 8.3 | 28 | C | 4.8 | -4 | 74 | 1.2 | 4.0 | 1.2 | 2 | C |
| 3 | 356 | 9.4 | 26 | C | 3.0 | 38 | 117 | -0.9 | 1.1 | 1.9 | 2 | C |
| 4 | 369 | 12.6 | 21 | C | 2.4 | 45 | 155 | -1.4 | 0.2 | 1.7 | 1 | C |
| 5 | 373 | 16.0 | 24 | C | 2.3 | 18 | 131 | -1.3 | 1.3 | 0.9 | 1 | C |
| 6 | 364 | 15.3 | 27 | C | 1.9 | -5 | 112 | -0.5 | 1.2 | 0.1 | 1 | C |
| 7 | 360 | 16.2 | 26 | C | 2.5 | -1 | 90 | -0.0 | 2.0 | 0.2 | 1 | C |
| 8 | 360 | 18.7 | 25 | C | 2.0 | -3 | 118 | -0.7 | 1.3 | 0.0 | 1 | C |
| 9 | 358 | 18.8 | 20 | C | 3.6 | -7 | 119 | -1.6 | 2.8 | -0.2 | 1 | C |
| 10 | 356 | 19.3 | 21 | C | 4.5 | 36 | 117 | -1.2 | 2.4 | 2.0 | 3 | C |
| 11 | 355 | 16.7 | 28 | C | 6.3 | 10 | 301 | 2.9 | -4.9 | 1.0 | 2 | C |
| 12 | 352 | 16.9 | 29 | C | 7.2 | -14 | 297 | 3.0 | -5.8 | -1.7 | 2 | C |
| 13 | 349 | 17.1 | 35 | C | 7.0 | -12 | 312 | 3.8 | -4.2 | -1.4 | 3 | C |
| 14 | 353 | 11.9 | 45 | C | 8.3 | 12 | 313 | 5.2 | -5.6 | 1.2 | 3 | C |
| 15 | 366 | 8.7 | 50 | C | 9.9 | 44 | 313 | 4.7 | -5.7 | 6.1 | 2 | C |
| 16 | 367 | 8.9 | 57 | C | 9.7 | 28 | 312 | 5.5 | -6.8 | 3.4 | 2 | C |
| 17 | 372 | 10.0 | 75 | C | 9.7 | 19 | 313 | 5.6 | -6.6 | 1.5 | 4 | C |
| 18 | 389 | 9.8 | 78 | C | 9.0 | -24 | 276 | 0.7 | -5.9 | -5.1 | 4 | C |
| 19 | 388 | 10.7 | 87 | C | 10.3 | 10 | 295 | 3.1 | -6.7 | -0.9 | 6 | C |
| 20 | 385 | 11.1 | 87 | C | 10.8 | 31 | 305 | 5.1 | -8.8 | 2.3 | 2 | C |
| 21 | 382 | 11.8 | 99 | C | 8.9 | -18 | 289 | 2.1 | -4.7 | -4.4 | 5 | C |
| 22 | 387 | 11.5 | 96 | C | 9.8 | -56 | 275 | 0.4 | -1.4 | -8.7 | 4 | C |
| 23 | 378 | 9.9 | 95 | C | 9.9 | -1 | 290 | 3.1 | -7.6 | -3.8 | 4 | C |
| 24 | 378 | 8.3 | 99 | C | 10.2 | 10 | 309 | 6.1 | -7.7 | -1.6 | 2 | C |

MAY 19, 1979 139

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 399 | 8.4 | 141 | C | 9.4 | -34 | 298 | 3.4 | -3.9 | -6.9 | 3 | C |
| 2 | 406 | 8.4 | 121 | C | 9.9 | -34 | 298 | 3.4 | -4.2 | -6.8 | 4 | C |
| 3 | 398 | 8.4 | 135 | C | 9.7 | 16 | 323 | 6.1 | -5.1 | 0.6 | 4 | C |
| 4 | 438 | 7.9 | 143 | C | 10.1 | -32 | 286 | 1.7 | -4.6 | -5.3 | 6 | C |
| 5 | 446 | 7.5 | 133 | C | 10.1 | -35 | 275 | 0.6 | -5.5 | -6.2 | 4 | C |
| 6 | 417 | 7.5 | 123 | J | 10.3 | 32 | 313 | 5.6 | -6.8 | 4.0 | 3 | J |
| 7 | 439 | 8.4 | 205 | J | 10.2 | 34 | 310 | 4.3 | -5.6 | 3.8 | 6 | J |
| 8 | 405 | 6.7 | 120 | C | 10.8 | 9 | 312 | 6.4 | -7.2 | 0.8 | 4 | C |
| 9 | 405 | 6.9 | 86 | J | 10.7 | 1 | 328 | 8.6 | -5.4 | -0.1 | 3 | J |
| 10 | 439 | 7.7 | 120 | J | 10.1 | -51 | 286 | 1.5 | -5.0 | -6.7 | 5 | J |
| 11 | 420 | 7.6 | 114 | J | 9.1 | -10 | 299 | 3.6 | -6.5 | -1.4 | 5 | J |
| 12 | 404 | 7.5 | 120 | J | 8.8 | -26 | 336 | 5.9 | -2.6 | -3.2 | 5 | J |
| 13 | 422 | 7.3 | 120 | J | 8.0 | -30 | 334 | 4.5 | -2.1 | -3.0 | 5 | J |
| 14 | 427 | 8.3 | 174 | J | 8.6 | -3 | 328 | 5.4 | -3.4 | -0.5 | 6 | J |
| 15 | 445 | 9.6 | 230 | J | 9.3 | -9 | 311 | 4.5 | -5.0 | -1.6 | 6 | J |
| 16 | 457 | 8.2 | 206 | J | 9.5 | 28 | 315 | 5.0 | -5.5 | 2.9 | 5 | J |
| 17 | 456 | 8.1 | 187 | J | 9.7 | 9 | 306 | 4.3 | -6.0 | -0.1 | 6 | J |
| 18 | 428 | 6.9 | 132 | J | 9.6 | 12 | 312 | 5.9 | -6.8 | 0.0 | 3 | J |
| 19 | 453 | 7.2 | 157 | J | 9.9 | 6 | 295 | 3.6 | -7.6 | -1.7 | 5 | J |
| 20 | 448 | 6.6 | 153 | J | 9.6 | -15 | 298 | 3.5 | -5.4 | -4.3 | 5 | J |
| 21 | 469 | 6.6 | 196 | J | 8.1 | -1 | 294 | 2.8 | -5.7 | -2.6 | 4 | J |
| 22 | 472 | 6.5 | 217 | J | 7.3 | 3 | 323 | 2.9 | -2.0 | -0.7 | 6 | J |
| 23 | 453 | 6.0 | 127 | J | 7.6 | 7 | 324 | 5.5 | -4.0 | -0.9 | 3 | J |
| 24 | 458 | 5.9 | 103 | J | 7.7 | -4 | 310 | 4.7 | -4.9 | -2.8 | 2 | J |

MAY 20, 1979 140

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 453 | 6.4 | 97 | J | 7.6 | -9 | 320 | 5.5 | -3.8 | -2.9 | 2 | J |
| 2 | 448 | 5.0 | 94 | C | 8.0 | -19 | 310 | 4.6 | -4.3 | -4.3 | 2 | C |
| 3 | 444 | 5.3 | 101 | C | 7.3 | -22 | 311 | 4.1 | -3.7 | -3.9 | 2 | C |
| 4 | 445 | 5.9 | 99 | C | 7.1 | -17 | 302 | 3.4 | -4.7 | -3.4 | 2 | C |
| 5 | 441 | 5.5 | 86 | C | 7.7 | -3 | 315 | 5.3 | -5.1 | -1.6 | 2 | C |
| 6 | 446 | 7.7 | 99 | J | 6.9 | -48 | 308 | 1.9 | -1.8 | -3.7 | 5 | J |
| 7 | 447 | 6.2 | 107 | J | 7.0 | 5 | 330 | 5.4 | -3.2 | 0.2 | 3 | J |
| 8 | 437 | 6.8 | 144 | J | 6.3 | 4 | 311 | 3.9 | -4.5 | 0.1 | 2 | J |
| 9 | 446 | 6.8 | 116 | J | 6.7 | 19 | 313 | 4.2 | -4.6 | 1.9 | 2 | J |
| 10 | 446 | 7.1 | 110 | J | 6.3 | 22 | 319 | 4.3 | -3.8 | 2.2 | 2 | J |
| 11 | 435 | 7.5 | 124 | J | 5.7 | -10 | 343 | 3.9 | -1.2 | -0.7 | 4 | J |
| 12 | 446 | 7.4 | 103 | J | 6.5 | -56 | 47 | 1.4 | 1.5 | -3.0 | 5 | J |
| 13 | 451 | 7.6 | 115 | J | 6.5 | 5 | 294 | 2.4 | -5.4 | 0.4 | 3 | J |
| 14 | 439 | 7.5 | 101 | J | 6.0 | -10 | 306 | 3.0 | -4.1 | -1.1 | 3 | J |
| 15 | 438 | 8.0 | 115 | J | 6.9 | -13 | 277 | 0.7 | -5.8 | -2.0 | 3 | C |
| 16 | 421 | 7.6 | 84 | J | 7.2 | -15 | 324 | 5.2 | -3.4 | -2.3 | 3 | J |
| 17 | 423 | 8.0 | 103 | J | 7.7 | -2 | 309 | 4.6 | -5.5 | -1.4 | 2 | J |
| 18 | 428 | 7.8 | 117 | J | 7.5 | -1 | 298 | 3.4 | -6.1 | -1.8 | 2 | J |
| 19 | 405 | 6.9 | 56 | J | 7.5 | 10 | 330 | 6.0 | -3.7 | 0.0 | 3 | J |
| 20 | 415 | 7.1 | 67 | J | 7.4 | 10 | 312 | 4.2 | -4.8 | -0.7 | 4 | J |
| 21 | 421 | 7.3 | 79 | J | 7.3 | -4 | 299 | 3.4 | -5.4 | -2.9 | 2 | J |
| 22 | 414 | 7.0 | 72 | J | 7.0 | 19 | 319 | 4.6 | -4.5 | 0.3 | 3 | J |
| 23 | 412 | 7.5 | 73 | J | 6.8 | 13 | 339 | 5.5 | -2.5 | 0.4 | 3 | J |
| 24 | 402 | 7.3 | 78 | J | 7.0 | 22 | 4 | 6.0 | -0.6 | 2.4 | 3 | J |

MAY 21, 1979 141

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 391 | 7.0 | 64 | J | 7.4 | 18 | 2 | 6.8 | -0.6 | 2.1 | 2 | J |
| 2 | 401 | 7.8 | 70 | J | 7.4 | 25 | 30 | 5.4 | 1.9 | 3.8 | 3 | J |
| 3 | 401 | 8.1 | 69 | J | 7.5 | 22 | 32 | 5.6 | 2.5 | 3.6 | 2 | J |
| 4 | 413 | 8.7 | 41 | J | 7.9 | 2 | 64 | 3.2 | 6.3 | 2.0 | 3 | J |
| 5 | 390 | 7.6 | 42 | C | 8.7 | 2 | 47 | 5.9 | 6.0 | 1.7 | 2 | C |
| 6 | 376 | 8.6 | 32 | J | 8.9 | -6 | 19 | 8.4 | 3.0 | -0.4 | 1 | J |
| 7 | 373 | 7.9 | 22 | J | 8.5 | -11 | 18 | 7.8 | 2.7 | -1.3 | 2 | J |
| 8 | 377 | 8.2 | 32 | J | 8.5 | -35 | 22 | 6.2 | 2.8 | -4.5 | 2 | J |
| 9 | 381 | 7.7 | 34 | J | 8.7 | -29 | 344 | 4.7 | -1.2 | -2.8 | 7 | J |
| 10 | 391 | 8.1 | 47 | J | 9.5 | 0 | 317 | 6.9 | -6.4 | -0.1 | 1 | J |
| 11 | 383 | 8.4 | 39 | J | 9.9 | -3 | 318 | 7.3 | -6.5 | -0.5 | 1 | C |
| 12 | 377 | 7.7 | 26 | J | 10.1 | 17 | 337 | 8.7 | -3.7 | 2.9 | 2 | J |
| 13 | 373 | 8.2 | 25 | J | 10.8 | -3 | 327 | 8.9 | -5.8 | -0.7 | 2 | J |
| 14 | 382 | 11.0 | 53 | J | 10.5 | -11 | 310 | 6.3 | -7.4 | -2.3 | 3 | J |
| 15 | 376 | 12.1 | 23 | C | 11.1 | -12 | 301 | 5.4 | -8.9 | -3.2 | 1 | C |
| 16 | 368 | 12.4 | 19 | C | 10.8 | -15 | 304 | 5.8 | -8.1 | -4.0 | 0 | C |
| 17 | 374 | 11.2 | 18 | J | 10.9 | -22 | 300 | 5.0 | -7.7 | -5.7 | 2 | J |
| 18 | 378 | 11.0 | 21 | J | 11.1 | -23 | 291 | 3.6 | -8.0 | -6.6 | 1 | J |
| 19 | 369 | 12.9 | 16 | J | 11.1 | -26 | 300 | 4.9 | -6.5 | -7.1 | 2 | J |
| 20 | 372 | 14.6 | 15 | J | 11.0 | -27 | 294 | 3.9 | -6.4 | -7.7 | 2 | J |
| 21 | 374 | 15.4 | 17 | J | 10.7 | -18 | 283 | 2.3 | -7.9 | -6.9 | 1 | J |
| 22 | 375 | 14.6 | 19 | J | 10.6 | -24 | 286 | 2.6 | -6.6 | -7.5 | 2 | J |
| 23 | 375 | 16.1 | 17 | J | 10.8 | -21 | 292 | 3.8 | -6.9 | -7.4 | 1 | J |
| 24 | 375 | 17.6 | 17 | J | 11.1 | -22 | 287 | 3.0 | -7.3 | -7.7 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 368 | 13.2 | 20 | J | 11.4 | -19 | 298 | 5.1 | -7.4 | -7.0 | 1 | J |
| 2 | 360 | 12.7 | 28 | J | 11.1 | -19 | 299 | 5.0 | -7.3 | -6.5 | 1 | J |
| 3 | 368 | 13.0 | 21 | J | 12.4 | -18 | 298 | 5.4 | -8.6 | -6.7 | 2 | J |
| 4 | 349 | 10.3 | 41 | J | 11.7 | -5 | 319 | 8.6 | -6.9 | -2.9 | 3 | J |
| 5 | 358 | 10.8 | 48 | J | 12.4 | -10 | 319 | 9.1 | -7.3 | -3.8 | 2 | J |
| 6 | 369 | 11.5 | 36 | J | 12.9 | -19 | 309 | 7.6 | -8.6 | -5.6 | 2 | J |
| 7 | 381 | 13.6 | 44 | J | 12.8 | -41 | 319 | 6.7 | -5.0 | -8.3 | 5 | J |
| 8 | 406 | 14.8 | 44 | J | 13.5 | -30 | 297 | 4.9 | -9.1 | -6.8 | 5 | J |
| 9 | 412 | 13.3 | 78 | J | 14.8 | -23 | 296 | 4.8 | -9.7 | -5.0 | 9 | J |
| 10 | 406 | 9.2 | 162 | J | 15.2 | -12 | 322 | 11.0 | -8.6 | -3.0 | 5 | J |
| 11 | 420 | 8.1 | 147 | J | 15.8 | 17 | 312 | 9.5 | -10.5 | 4.4 | 5 | J |
| 12 | 435 | 6.4 | 51 | J | 16.9 | 28 | 313 | 9.8 | -10.4 | 7.7 | 4 | J |
| 13 | 438 | 6.3 | 124 | C | 15.3 | -17 | 311 | 9.5 | -10.8 | -4.5 | 3 | J |
| 14 | 472 | 7.8 | 129 | J | 15.2 | 25 | 308 | 7.9 | -10.3 | 5.5 | 5 | J |
| 15 | 528 | 10.6 | 252 | J | 12.0 | 2 | 313 | 6.1 | -6.5 | -0.2 | 8 | J |
| 16 | 527 | 10.6 | 220 | J | 11.1 | 6 | 310 | 5.6 | -6.8 | -0.0 | 6 | J |
| 17 | 524 | 9.9 | 237 | J | 10.9 | 9 | 303 | 5.4 | -8.4 | -0.1 | 5 | J |
| 18 | 558 | 9.7 | 238 | J | 9.5 | -71 | 329 | 2.1 | 0.6 | -7.2 | 6 | J |
| 19 | 546 | 8.5 | 229 | J | 8.0 | -16 | 317 | 4.5 | -3.4 | -3.0 | 5 | J |
| 20 | 565 | 7.1 | 213 | J | 7.2 | 38 | 339 | 3.7 | -2.4 | 2.4 | 5 | J |
| 21 | 570 | 6.8 | 191 | J | 7.2 | -42 | 319 | 3.3 | -1.1 | -4.7 | 4 | J |
| 22 | 566 | 4.4 | 160 | J | 7.1 | 6 | 311 | 4.2 | -4.7 | -1.3 | 3 | J |
| 23 | 587 | 3.5 | 260 | J | 5.9 | 18 | 316 | 2.8 | -3.0 | 0.1 | 4 | J |
| 24 | 577 | 3.6 | 268 | J | 5.6 | -12 | 318 | 2.9 | -2.1 | -1.8 | 4 | J |

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MAY 23, 1979 143

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 593 | 2.9 | 181 | J | 5.6 | -34 | 260 | -0.5 | -2.1 | -3.1 | 4 | J |
| 2 | 553 | 2.8 | 192 | J | 5.2 | 11 | 325 | 3.3 | -2.4 | -0.1 | 3 | J |
| 3 | 542 | 2.5 | 131 | J | 4.5 | -6 | 341 | 4.0 | -1.2 | -0.8 | 2 | J |
| 4 | 539 | 2.9 | 160 | C | 4.9 | -16 | 331 | 3.7 | -1.7 | -1.7 | 2 | C |
| 5 | 524 | 2.4 | 115 | C | 5.4 | 1 | 320 | 3.9 | -3.2 | -0.6 | 2 | C |
| 6 | 526 | 2.0 | 66 | J | 6.0 | 11 | 324 | 4.7 | -3.5 | 0.6 | 1 | J |
| 7 | 517 | 1.9 | 72 | J | 6.0 | 26 | 324 | 4.3 | -3.4 | 2.2 | 1 | J |
| 8 | 460 | 2.4 | 128 | L | 5.4 | -11 | 16 | 5.0 | 1.5 | -0.9 | 1 | J |
| 9 | 491 | 3.0 | 42 | J | 5.4 | -1 | 23 | 4.5 | 1.9 | -0.0 | 2 | J |
| 10 | 496 | 3.0 | 43 | J | 6.4 | 21 | 52 | 3.6 | 4.6 | 2.2 | 2 | J |
| 11 | 470 | 2.6 | 44 | J | 6.3 | 4 | 26 | 5.5 | 2.7 | 0.4 | 1 | J |
| 12 | 448 | 2.2 | 38 | J | 6.1 | 8 | 13 | 5.6 | 1.3 | 0.8 | 2 | J |
| 13 | 447 | 2.3 | 40 | J | 5.8 | 20 | 6 | 5.0 | 0.5 | 1.8 | 2 | J |
| 14 | 456 | 3.0 | 43 | J | 6.2 | 33 | 21 | 4.4 | 1.6 | 3.1 | 3 | J |
| 15 | 446 | 2.7 | 51 | J | 6.1 | 23 | 3 | 5.3 | 0.1 | 2.3 | 2 | J |
| 16 | 442 | 2.2 | 47 | J | 5.9 | 21 | 13 | 5.3 | 0.9 | 2.2 | 1 | J |
| 17 | 441 | 2.6 | 64 | J | 6.5 | 26 | 7 | 5.6 | 0.1 | 2.8 | 1 | J |
| 18 | 434 | 2.7 | 50 | J | 6.4 | 18 | 358 | 5.7 | -0.7 | 1.7 | 2 | J |
| 19 | 437 | 3.0 | 50 | J | 6.2 | -8 | 331 | 5.1 | -2.5 | -1.6 | 2 | J |
| 20 | 469 | 3.4 | 48 | J | 6.1 | -50 | 320 | 2.5 | -0.6 | -4.3 | 3 | J |
| 21 | 491 | 4.1 | 49 | J | 6.4 | -48 | 267 | -0.2 | -1.9 | -5.3 | 3 | J |
| 22 | 481 | 4.5 | 51 | J | 6.6 | -35 | 275 | 0.4 | -3.2 | -5.2 | 3 | J |
| 23 | 464 | 4.5 | 53 | J | 6.9 | -41 | 294 | 2.0 | -2.4 | -5.6 | 2 | J |
| 24 | 480 | 5.0 | 55 | J | 6.9 | -27 | 267 | -0.3 | -4.2 | -5.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 448 | 4.3 | 48 | J | 6.5 | -15 | 307 | 3.3 | -3.5 | -3.0 | 3 | J |
| 2 | 436 | 4.7 | 48 | J | 7.3 | -24 | 339 | 5.9 | -1.2 | -3.4 | 3 | J |
| 3 | 442 | 5.2 | 55 | J | 7.7 | -25 | 334 | 5.8 | -1.8 | -3.7 | 3 | J |
| 4 | 439 | 5.1 | 69 | J | 7.4 | 0 | 329 | 5.7 | -3.3 | -0.8 | 3 | J |
| 5 | 456 | 5.2 | 65 | J | 7.2 | 3 | 314 | 3.5 | -3.6 | -0.5 | 5 | J |
| 6 | 475 | 6.1 | 40 | J | 7.5 | -50 | 265 | -0.4 | -3.8 | -6.2 | 2 | J |
| 7 | 464 | 6.5 | 41 | J | 7.3 | -31 | 281 | 1.1 | -5.4 | -4.0 | 3 | J |
| 8 | 464 | 6.6 | 65 | J | 6.9 | -25 | 294 | 2.1 | -4.5 | -2.6 | 4 | J |
| 9 | 449 | 5.3 | 65 | C | 7.2 | -1 | 312 | 4.4 | -4.9 | -0.2 | 3 | J |
| 10 | 467 | 7.8 | 47 | J | 7.4 | -48 | 285 | 1.2 | -4.4 | -5.0 | 3 | J |
| 11 | 460 | 7.2 | 47 | J | 7.2 | -15 | 308 | 3.6 | -4.6 | -1.5 | 4 | J |
| 12 | 461 | 6.9 | 40 | J | 8.0 | 25 | 331 | 5.9 | -3.2 | 3.2 | 3 | J |
| 13 | 474 | 8.0 | 72 | J | 7.1 | -63 | 295 | 1.2 | -2.6 | -5.7 | 3 | J |
| 14 | 459 | 8.4 | 67 | J | 7.4 | -10 | 309 | 4.2 | -5.2 | -1.3 | 3 | J |
| 15 | 457 | 7.8 | 70 | J | 7.1 | 17 | 319 | 4.9 | -4.4 | 1.7 | 2 | J |
| 16 | 461 | 9.1 | 89 | J | 7.2 | -28 | 330 | 4.7 | -2.3 | -3.2 | 3 | J |
| 17 | 479 | 9.8 | 106 | J | 7.5 | -48 | 336 | 3.7 | -0.8 | -4.8 | 4 | J |
| 18 | 473 | 9.5 | 99 | J | 8.1 | 17 | 310 | 3.9 | -5.0 | 0.7 | 5 | J |
| 19 | 481 | 9.8 | 118 | J | 8.7 | -6 | 312 | 5.1 | -5.1 | -2.4 | 4 | J |
| 20 | 489 | 10.4 | 96 | J | 9.3 | -7 | 309 | 4.7 | -5.2 | -2.9 | 5 | J |
| 21 | 489 | 10.9 | 108 | J | 8.4 | -52 | 312 | 2.8 | -0.9 | -6.2 | 5 | J |
| 22 | 503 | 11.9 | 146 | J | 7.7 | -44 | 313 | 1.9 | -0.8 | -3.3 | 7 | J |
| 23 | 508 | 12.2 | 160 | J | 8.0 | -15 | 70 | 1.3 | 3.7 | 0.5 | 6 | C |
| 24 | 518 | 9.1 | 145 | C | 10.2 | -85 | 69 | 0.3 | 4.0 | -7.8 | 4 | C |

MAY 25, 1979 145

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 509 | 9.4 | 149 | C | 9.6 | 24 | 301 | 3.4 | -6.4 | 0.7 | 4 | C |
| 2 | 519 | 13.1 | 174 | J | 9.1 | 9 | 335 | 3.8 | -1.9 | 0.0 | 8 | J |
| 3 | 513 | 13.2 | 151 | J | 9.7 | 5 | 311 | 5.2 | -6.0 | -1.1 | 5 | J |
| 4 | 540 | 11.3 | 169 | J | 10.8 | -33 | 323 | 6.4 | -3.4 | -6.2 | 5 | J |
| 5 | 563 | 11.0 | 198 | J | 9.8 | 11 | 294 | 3.6 | -8.3 | 0.1 | 3 | J |
| 6 | 582 | 9.4 | 192 | J | 10.2 | -4 | 299 | 4.4 | -7.8 | -1.7 | 4 | J |
| 7 | 577 | 8.4 | 153 | J | 9.3 | 0 | 321 | 6.8 | -5.5 | -0.5 | 3 | J |
| 8 | 569 | 7.2 | 94 | J | 9.3 | -4 | 340 | 8.2 | -3.0 | -0.8 | 3 | J |
| 9 | 582 | 7.2 | 165 | J | 9.5 | -6 | 319 | 6.9 | -6.0 | -1.0 | 2 | J |
| 10 | 573 | 6.5 | 102 | J | 10.3 | -1 | 315 | 7.1 | -7.1 | -0.1 | 2 | J |
| 11 | 591 | 6.7 | 173 | J | 9.6 | -14 | 320 | 6.7 | -5.7 | -2.0 | 3 | J |
| 12 | 601 | 6.4 | 189 | J | 9.8 | -11 | 309 | 5.8 | -7.2 | -1.6 | 3 | J |
| 13 | 601 | 6.7 | 259 | J | 9.9 | -14 | 306 | 5.4 | -7.4 | -2.2 | 3 | J |
| 14 | 609 | 6.6 | 215 | J | 9.9 | -24 | 296 | 3.7 | -7.5 | -3.9 | 4 | J |
| 15 | 608 | 6.5 | 190 | J | 8.5 | 13 | 345 | 5.4 | -1.5 | 1.2 | 6 | C |
| 16 | 626 | 5.6 | 224 | J | 7.3 | -20 | 5 | 3.8 | 0.5 | -1.4 | 5 | C |
| 17 | 612 | 5.2 | 179 | J | 8.1 | -38 | 301 | 2.8 | -3.9 | -5.1 | 3 | C |
| 18 | 621 | 4.5 | 218 | C | 7.9 | 2 | 326 | 5.2 | -3.5 | -0.6 | 4 | C |
| 19 | 633 | 4.5 | 217 | C | 7.8 | -3 | 321 | 4.8 | -3.6 | -1.4 | 3 | C |
| 20 | 619 | 4.2 | 196 | C | 8.0 | -4 | 327 | 5.6 | -3.3 | -1.7 | 4 | C |
| 21 | 631 | 4.3 | 186 | C | 8.0 | -15 | 310 | 3.9 | -3.7 | -3.2 | 5 | C |
| 22 | 617 | 4.2 | 184 | C | 7.9 | 6 | 344 | 5.2 | -1.6 | -0.1 | 5 | C |
| 23 | 598 | 4.1 | 113 | C | 8.2 | 1 | 322 | 5.9 | -4.4 | -1.6 | 3 | C |
| 24 | 617 | 3.9 | 159 | C | 8.4 | -31 | 328 | 5.0 | -1.5 | -4.5 | 4 | C |

MAY 26, 1979 146

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 639 | 4.2 | 184 | C | 7.7 | -8 | 312 | 4.5 | -4.3 | -2.6 | 3 | C |
| 2 | 628 | 3.9 | 183 | C | 7.0 | 14 | 339 | 5.5 | -2.5 | 0.7 | 2 | C |
| 3 | 634 | 3.8 | 145 | C | 6.9 | -18 | 340 | 4.8 | -1.2 | -2.1 | 4 | C |
| 4 | 624 | 4.0 | 154 | C | 7.1 | -25 | 318 | 3.4 | -2.5 | -2.8 | 4 | C |
| 5 | 626 | 3.7 | 138 | C | 7.1 | 14 | 333 | 5.0 | -2.8 | 0.9 | 3 | C |
| 6 | 615 | 3.6 | 130 | C | 6.9 | -19 | 330 | 5.1 | -2.6 | -2.4 | 2 | C |
| 7 | 610 | 3.5 | 117 | C | 6.9 | 3 | 9 | 6.2 | 0.9 | 0.4 | 2 | C |
| 8 | 617 | 3.5 | 119 | C | 6.7 | 18 | 0 | 5.9 | -0.0 | 1.9 | 2 | C |
| 9 | 648 | 3.6 | 156 | C | 6.3 | 8 | 327 | 4.0 | -2.6 | 0.6 | 3 | C |
| 10 | 631 | 3.8 | 160 | C | 6.0 | -1 | 332 | 4.1 | -2.2 | -0.1 | 3 | C |
| 11 | 636 | 3.7 | 160 | C | 6.0 | 24 | 13 | 4.7 | 1.2 | 2.1 | 2 | C |
| 12 | 652 | 3.8 | 153 | C | 5.9 | -4 | 37 | 3.0 | 2.2 | -0.4 | 4 | C |
| 13 | 646 | 3.7 | 158 | C | 5.6 | -22 | 348 | 3.6 | -0.8 | -1.5 | 3 | C |
| 14 | 644 | 3.5 | 149 | C | 5.8 | 20 | 311 | 3.1 | -3.5 | 1.6 | 2 | C |
| 15 | 641 | 3.5 | 150 | C | 5.7 | 21 | 332 | 2.7 | -1.5 | 1.1 | 4 | C |
| 16 | 650 | 3.5 | 137 | C | 5.9 | -60 | 319 | 1.9 | -1.1 | -4.6 | 2 | C |
| 17 | 634 | 3.6 | 159 | C | 5.9 | -2 | 350 | 3.1 | -0.5 | -0.2 | 4 | C |
| 18 | 643 | 3.5 | 162 | C | 5.7 | 4 | 313 | 2.5 | -2.6 | -0.4 | 3 | C |
| 19 | 599 | 3.4 | 144 | C | 6.0 | -9 | 10 | 5.3 | 1.2 | -0.5 | 2 | C |
| 20 | 604 | 3.5 | 153 | C | 5.8 | -24 | 349 | 4.8 | -0.2 | -2.4 | 2 | C |
| 21 | 594 | 3.5 | 134 | C | 5.9 | -13 | 3 | 5.5 | 0.7 | -1.0 | 1 | C |
| 22 | 599 | 3.4 | 134 | C | 5.9 | 14 | 326 | 4.0 | -2.9 | 0.1 | 2 | C |
| 23 | 598 | 3.4 | 130 | C | 5.8 | 22 | 349 | 4.6 | -1.6 | 1.4 | 2 | C |
| 24 | 619 | 3.6 | 122 | C | 5.5 | -13 | 341 | 3.2 | -0.7 | -1.1 | 4 | C |

MAY 27, 1979 147

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 599 | 3.5 | 132 | C | 5.6 | -22 | 319 | 3.5 | -2.2 | -2.8 | 2 | C |
| 2 | 599 | 3.3 | 113 | C | 5.6 | 5 | 307 | 3.0 | -3.9 | -0.8 | 2 | C |
| 3 | 605 | 3.6 | 125 | C | 5.9 | -1 | 301 | 2.7 | -4.3 | -1.4 | 2 | C |
| 4 | 612 | 3.6 | 121 | C | 6.0 | -29 | 319 | 2.7 | -1.8 | -2.4 | 4 | C |
| 5 | 611 | 3.8 | 120 | C | 6.2 | -13 | 311 | 3.4 | -3.6 | -1.8 | 2 | C |
| 6 | 604 | 3.6 | 124 | C | 6.0 | -20 | 315 | 3.0 | -2.8 | -1.9 | 3 | C |
| 7 | 627 | 3.5 | 143 | C | 5.6 | 5 | 286 | 1.2 | -4.0 | 0.1 | 3 | C |
| 8 | 625 | 3.4 | 125 | C | 5.6 | -28 | 259 | -0.8 | -3.9 | -2.3 | 3 | C |
| 9 | 607 | 3.3 | 127 | C | 5.3 | -1 | 278 | 0.6 | -4.2 | -0.1 | 3 | C |
| 10 | 560 | 2.5 | 103 | C | 6.4 | -24 | 320 | 4.2 | -3.6 | -2.3 | 2 | C |
| 11 | 581 | 2.8 | 112 | C | 6.6 | 2 | 317 | 4.4 | -4.1 | 0.4 | 2 | C |
| 12 | 609 | 2.9 | 113 | C | 6.2 | -15 | 297 | 2.4 | -4.7 | -1.2 | 2 | C |
| 13 | 599 | 3.2 | 135 | C | 5.8 | 0 | 304 | 2.9 | -4.2 | 0.1 | 2 | C |
| 14 | 591 | 3.3 | 139 | C | 5.7 | -22 | 313 | 2.8 | -3.1 | -1.7 | 3 | C |
| 15 | 597 | 3.0 | 132 | C | 5.8 | -25 | 293 | 1.7 | -4.1 | -2.3 | 2 | C |
| 16 | 585 | 2.9 | 121 | C | 5.9 | -11 | 304 | 3.0 | -4.2 | -1.5 | 2 | C |
| 17 | 567 | 2.7 | 112 | C | 5.6 | -3 | 315 | 3.7 | -3.7 | -0.9 | 1 | C |
| 18 | 573 | 2.5 | 105 | C | 4.8 | -8 | 324 | 3.7 | -2.4 | -1.2 | 1 | C |
| 19 | 559 | 2.5 | 103 | C | 4.9 | -1 | 346 | 4.7 | -1.1 | -0.4 | 1 | C |
| 20 | 560 | 2.7 | 94 | C | 4.9 | 8 | 346 | 4.3 | -1.2 | 0.3 | 2 | C |
| 21 | 567 | 2.7 | 99 | C | 4.9 | 5 | 331 | 3.9 | -2.2 | -0.4 | 1 | C |
| 22 | 552 | 2.9 | 102 | C | 5.2 | -17 | 338 | 4.4 | -1.1 | -2.1 | 1 | C |
| 23 | 552 | 3.0 | 105 | C | 5.0 | 6 | 331 | 4.2 | -2.3 | -0.4 | 1 | C |
| 24 | 536 | 2.9 | 91 | C | 5.2 | 12 | 342 | 4.4 | -1.7 | 0.4 | 2 | C |

MAY 28, 1979 148

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 571 | 3.1 | 92 | C | 5.1 | -28 | 211 | -3.3 | -1.2 | -2.6 | 2 | C |
| 2 | 544 | 2.7 | 83 | C | 5.5 | -3 | 297 | 1.4 | -2.5 | -1.0 | 5 | C |
| 3 | 512 | 2.8 | 80 | C | 5.7 | 3 | 335 | 5.1 | -2.4 | -0.4 | 0 | C |
| 4 | 515 | 2.8 | 82 | C | 5.8 | 4 | 331 | 5.0 | -2.8 | -0.3 | 1 | C |
| 5 | 503 | 2.3 | 68 | C | 6.0 | 1 | 337 | 5.4 | -2.3 | -0.3 | 1 | C |
| 6 | 507 | 2.5 | 77 | C | 6.0 | 5 | 333 | 5.3 | -2.7 | 0.2 | 0 | C |
| 7 | 500 | 2.4 | 60 | C | 6.1 | 2 | 334 | 5.4 | -2.7 | 0.1 | 1 | C |
| 8 | 506 | 2.3 | 99 | C | 5.8 | 9 | 339 | 5.1 | -2.0 | 0.8 | 2 | C |
| 9 | 494 | 2.1 | 73 | C | 5.9 | 12 | 350 | 5.6 | -1.0 | 1.2 | 1 | C |
| 10 | 486 | 2.3 | 59 | C | 6.0 | 10 | 348 | 5.6 | -1.1 | 1.0 | 1 | C |
| 11 | 486 | 2.4 | 57 | C | 6.0 | -1 | 335 | 5.4 | -2.5 | 0.0 | 0 | C |
| 12 | 477 | 2.5 | 47 | C | 5.9 | -6 | 344 | 5.6 | -1.6 | -0.6 | 1 | C |
| 13 | 474 | 2.3 | 56 | C | 5.5 | -6 | 352 | 5.3 | -0.7 | -0.6 | 1 | C |
| 14 | 478 | 2.5 | 61 | C | 5.6 | -3 | 351 | 5.5 | -0.9 | -0.3 | 1 | C |
| 15 | 473 | 2.3 | 47 | C | 6.2 | -1 | 344 | 6.0 | -1.7 | -0.2 | 0 | C |
| 16 | 469 | 2.3 | 45 | C | 6.1 | -5 | 352 | 6.0 | -0.8 | -0.6 | 0 | C |
| 17 | 473 | 3.1 | 84 | C | 5.3 | -3 | 349 | 5.1 | -0.9 | -0.4 | 1 | C |
| 18 | 455 | 3.6 | 86 | C | 4.0 | -18 | 327 | 2.8 | -1.5 | -1.5 | 2 | C |
| 19 | 472 | 3.3 | 89 | C | 4.0 | -33 | 275 | 0.2 | -1.6 | -1.9 | 3 | C |
| 20 | 455 | 3.7 | 72 | C | 3.2 | -43 | 283 | 0.4 | -1.1 | -2.0 | 2 | C |
| 21 | 442 | 3.5 | 76 | C | 4.0 | -41 | 329 | 2.3 | -0.5 | -2.7 | 2 | C |
| 22 | 441 | 3.8 | 65 | C | 5.0 | -42 | 343 | 3.3 | 0.2 | -3.2 | 2 | C |
| 23 | 456 | 3.8 | 64 | C | 5.6 | -43 | 50 | 2.5 | 4.1 | -2.2 | 2 | C |
| 24 | 458 | 3.9 | 53 | C | 5.4 | -51 | 51 | 2.0 | 3.8 | -2.8 | 1 | C |

MAY 29, 1979 149

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 434 | 4.2 | 72 | C | 5.2 | -23 | 8 | 4.1 | 1.1 | -1.5 | 2 | C |
| 2 | 418 | 4.2 | 58 | C | 5.5 | 3 | 333 | 4.6 | -2.3 | -0.4 | 2 | C |
| 3 | 408 | 3.8 | 49 | C | 5.5 | 3 | 359 | 5.4 | -0.2 | 0.2 | 1 | C |
| 4 | 406 | 4.0 | 53 | C | 5.6 | -2 | 356 | 5.5 | -0.3 | -0.3 | 0 | C |
| 5 | 407 | 3.7 | 51 | C | 5.8 | 7 | 355 | 5.7 | -0.6 | 0.6 | 1 | C |
| 6 | 409 | 3.9 | 58 | C | 6.0 | 10 | 352 | 5.8 | -0.9 | 0.9 | 1 | C |
| 7 | 429 | 3.7 | 69 | C | 5.2 | 6 | 6 | 5.0 | 0.5 | 0.6 | 1 | C |
| 8 | 426 | 3.9 | 70 | C | 5.5 | 18 | 350 | 4.8 | -0.9 | 1.5 | 2 | C |
| 9 | 429 | 4.1 | 77 | C | 5.7 | -3 | 345 | 5.0 | -1.3 | -0.3 | 2 | C |
| 10 | 432 | 4.5 | 85 | C | 5.2 | -15 | 339 | 4.5 | -1.8 | -1.2 | 1 | C |
| 11 | 421 | 4.8 | 87 | C | 5.0 | -15 | 352 | 4.3 | -0.7 | -1.1 | 2 | C |
| 12 | 417 | 5.1 | 79 | C | 5.4 | -5 | 29 | 4.3 | 2.3 | -0.5 | 2 | C |
| 13 | 418 | 4.9 | 80 | C | 6.1 | -24 | 19 | 5.2 | 1.7 | -2.5 | 1 | C |
| 14 | 419 | 5.3 | 77 | C | 6.1 | -31 | 34 | 4.1 | 2.8 | -3.0 | 2 | C |
| 15 | | | | | | | | | | | | |
| 16 | 412 | 4.8 | 71 | C | 6.6 | -11 | 13 | 6.1 | 1.5 | -1.1 | 1 | C |
| 17 | 405 | 4.8 | 67 | C | 6.5 | -13 | 12 | 6.2 | 1.5 | -1.2 | 0 | C |
| 18 | 402 | 5.0 | 66 | C | 6.3 | -8 | 7 | 5.8 | 0.9 | -0.7 | 2 | C |
| 19 | 393 | 4.6 | 55 | C | 6.6 | 7 | 5 | 6.3 | 0.3 | 0.9 | 2 | C |
| 20 | 439 | 7.0 | 150 | C | 11.0 | 24 | 17 | 9.0 | 1.3 | 4.8 | 4 | C |
| 21 | 531 | 12.6 | 313 | C | 15.7 | 34 | 275 | 0.7 | -8.1 | 2.0 | 12 | C |
| 22 | 633 | 27.6 | 265 | C | 19.6 | 1 | 242 | -4.2 | -7.5 | -2.7 | 16 | C |
| 23 | 631 | 13.5 | 115 | C | 22.0 | 38 | 53 | 10.1 | 7.9 | 17.3 | 4 | C |
| 24 | 621 | 19.6 | 58 | C | 21.2 | 38 | 52 | 10.3 | 7.7 | 16.7 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 621 | 19.6 | 66 | C | 18.0 | 41 | 70 | 4.5 | 8.0 | 15.2 | 3 | C |
| 2 | 611 | 22.3 | 84 | C | 16.9 | 34 | 64 | 6.0 | 9.1 | 12.6 | 3 | C |
| 3 | 622 | 15.3 | 77 | C | 14.2 | 20 | 51 | 8.1 | 8.5 | 7.2 | 3 | C |
| 4 | 626 | 11.9 | 97 | C | 10.9 | 9 | 49 | 7.0 | 7.4 | 3.3 | 2 | C |
| 5 | 639 | 12.4 | 70 | C | 12.4 | -9 | 43 | 9.0 | 8.5 | -0.5 | 1 | C |
| 6 | 613 | 10.6 | 58 | C | 12.0 | 36 | 60 | 4.7 | 7.4 | 7.8 | 2 | C |
| 7 | 604 | 8.9 | 55 | C | 11.3 | 40 | 58 | 4.5 | 6.8 | 7.7 | 1 | C |
| 8 | 589 | 6.6 | 37 | C | 12.0 | 41 | 55 | 5.1 | 7.2 | 7.9 | 1 | C |
| 9 | 583 | 3.6 | 22 | C | 12.6 | 34 | 48 | 7.0 | 8.0 | 6.9 | 1 | C |
| 10 | 569 | 3.0 | 20 | C | 12.9 | 32 | 47 | 7.4 | 8.2 | 6.5 | 0 | C |
| 11 | 551 | 3.0 | 30 | C | 12.9 | 32 | 45 | 7.8 | 8.0 | 6.3 | 0 | C |
| 12 | 540 | 3.0 | 21 | C | 12.7 | 33 | 46 | 7.3 | 8.1 | 6.5 | 1 | C |
| 13 | 508 | 2.4 | 19 | C | 12.2 | 34 | 51 | 6.4 | 8.1 | 6.4 | 1 | C |
| 14 | 483 | 2.2 | 26 | C | 11.5 | 37 | 68 | 3.4 | 8.5 | 6.7 | 2 | C |
| 15 | 459 | 2.0 | 21 | C | 11.3 | 47 | 62 | 3.6 | 6.5 | 8.5 | 1 | C |
| 16 | 474 | 3.8 | 30 | C | 11.0 | 43 | 54 | 4.7 | 5.8 | 8.1 | 1 | C |
| 17 | 458 | 2.7 | 16 | C | 11.1 | 43 | 53 | 4.9 | 5.3 | 8.5 | 1 | C |
| 18 | 448 | 2.1 | 17 | C | 11.0 | 42 | 66 | 3.3 | 5.8 | 8.7 | 0 | C |
| 19 | 447 | 2.0 | 17 | C | 10.8 | 39 | 65 | 3.5 | 5.6 | 8.5 | 0 | C |
| 20 | 444 | 1.5 | 19 | C | 10.7 | 40 | 64 | 3.5 | 5.0 | 8.7 | 1 | C |
| 21 | | | | | | | | | | | | |
| 22 | 409 | 1.4 | 15 | C | 10.4 | 41 | 56 | 4.3 | 3.6 | 8.6 | 1 | C |
| 23 | 433 | 1.1 | 12 | C | 10.3 | 41 | 60 | 3.8 | 3.8 | 8.7 | 1 | C |
| 24 | 319 | 0.8 | 73 | L | 10.6 | 38 | 65 | 3.5 | 4.7 | 8.7 | 1 | C |

MAY 31, 1979 151

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 307 | 0.7 | 88 | L | 10.9 | 40 | 68 | 3.2 | 5.1 | 9.1 | 0 | C |
| 2 | 315 | 0.9 | 94 | L | 11.0 | 41 | 52 | 5.1 | 4.1 | 8.8 | 1 | C |
| 3 | 312 | 0.7 | 124 | L | 10.9 | 44 | 53 | 4.7 | 4.1 | 8.8 | 1 | C |
| 4 | 313 | 1.3 | 118 | L | 10.6 | 46 | 43 | 5.4 | 3.3 | 8.5 | 0 | C |
| 5 | 324 | 2.0 | 87 | L | 10.5 | 45 | 46 | 5.2 | 4.1 | 8.2 | 0 | C |
| 6 | 337 | 3.0 | 112 | L | 10.3 | 47 | 42 | 5.3 | 3.9 | 7.9 | 0 | C |
| 7 | 331 | 2.9 | 113 | L | 10.0 | 46 | 45 | 4.9 | 4.5 | 7.5 | 0 | C |
| 8 | 322 | 2.1 | 108 | L | 9.8 | 47 | 45 | 4.8 | 4.7 | 7.2 | 0 | C |
| 9 | 326 | 3.4 | 143 | L | 9.5 | 49 | 43 | 4.5 | 4.4 | 7.0 | 1 | C |
| 10 | 343 | 4.1 | 161 | L | 8.4 | 50 | 43 | 3.9 | 4.0 | 6.1 | 1 | C |
| 11 | 412 | 7.2 | 107 | L | 7.1 | 43 | 13 | 4.9 | 1.5 | 4.7 | 2 | C |
| 12 | 448 | 5.5 | 24 | J | 7.8 | 36 | 352 | 6.2 | -0.6 | 4.6 | 1 | J |
| 13 | 442 | 3.6 | 20 | J | 7.8 | 33 | 343 | 6.2 | -1.7 | 4.3 | 1 | J |
| 14 | 434 | 4.3 | 23 | J | 7.5 | 35 | 339 | 5.7 | -2.1 | 4.3 | 1 | J |
| 15 | 345 | 3.3 | 237 | L | 8.2 | 39 | 347 | 6.0 | -1.6 | 5.0 | 2 | C |
| 16 | 414 | 3.2 | 87 | J | 7.3 | 5 | 310 | 3.9 | -4.7 | 0.2 | 4 | J |
| 17 | 411 | 3.0 | 75 | J | 7.3 | 24 | 322 | 4.8 | -4.1 | 2.2 | 3 | J |
| 18 | 410 | 2.9 | 82 | J | 6.7 | 17 | 324 | 4.6 | -3.6 | 1.0 | 3 | J |
| 19 | 401 | 3.0 | 60 | J | 6.9 | -4 | 316 | 4.7 | -4.3 | -1.6 | 2 | J |
| 20 | 406 | 3.0 | 51 | J | 6.8 | 15 | 319 | 4.7 | -4.4 | 0.4 | 2 | J |
| 21 | 403 | 2.7 | 49 | J | 6.7 | 27 | 346 | 5.7 | -2.3 | 2.4 | 1 | J |
| 22 | 405 | 2.6 | 44 | J | 6.5 | 23 | 338 | 5.5 | -2.9 | 1.6 | 1 | J |
| 23 | 401 | 2.6 | 46 | J | 6.1 | 27 | 336 | 4.9 | -3.0 | 1.8 | 1 | J |
| 24 | 401 | 2.7 | 48 | J | 6.1 | 20 | 320 | 4.2 | -4.0 | 0.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 406 | 2.6 | 44 | J | 6.0 | 27 | 313 | 3.5 | -4.3 | 1.3 | 2 | J |
| 2 | 398 | 2.4 | 48 | C | 5.9 | 23 | 314 | 3.7 | -4.4 | 1.1 | 1 | C |
| 3 | 393 | 2.7 | 45 | C | 5.8 | 4 | 316 | 3.9 | -3.8 | -0.6 | 2 | C |
| 4 | 386 | 2.6 | 43 | C | 5.7 | 0 | 325 | 4.4 | -3.0 | -0.6 | 1 | C |
| 5 | 381 | 2.4 | 35 | C | 5.8 | 4 | 313 | 4.0 | -4.2 | -0.2 | 1 | C |
| 6 | 382 | 2.4 | 29 | C | 5.8 | 4 | 311 | 3.8 | -4.4 | -0.0 | 0 | C |
| 7 | 387 | 2.1 | 33 | J | 6.0 | -5 | 312 | 4.0 | -4.4 | -0.7 | 1 | J |
| 8 | 391 | 1.7 | 31 | J | 6.0 | 1 | 313 | 4.0 | -4.3 | 0.1 | 1 | J |
| 9 | 377 | 2.4 | 23 | J | 5.7 | -13 | 306 | 3.2 | -4.5 | -1.1 | 1 | J |
| 10 | 367 | 4.2 | 19 | J | 5.3 | 7 | 307 | 3.1 | -4.1 | 0.9 | 1 | J |
| 11 | 355 | 3.5 | 18 | J | 5.3 | 5 | 315 | 3.6 | -3.6 | 0.7 | 1 | J |
| 12 | 358 | 4.1 | 16 | J | 5.2 | 5 | 307 | 3.1 | -4.0 | 0.7 | 1 | J |
| 13 | 354 | 4.4 | 18 | J | 5.2 | 9 | 311 | 3.4 | -3.8 | 1.0 | 1 | J |
| 14 | 352 | 4.6 | 21 | J | 5.1 | 9 | 309 | 3.2 | -3.9 | 0.9 | 1 | J |
| 15 | 353 | 4.3 | 22 | J | 5.2 | 5 | 306 | 2.9 | -4.0 | 0.4 | 2 | J |
| 16 | 355 | 4.3 | 29 | J | 5.2 | -27 | 307 | 2.7 | -3.4 | -2.5 | 1 | J |
| 17 | 352 | 4.3 | 26 | J | 5.3 | -8 | 307 | 3.0 | -3.9 | -1.2 | 1 | J |
| 18 | 349 | 4.4 | 23 | J | 5.3 | 4 | 308 | 3.1 | -4.0 | -0.4 | 1 | J |
| 19 | 356 | 4.3 | 25 | J | 5.3 | 9 | 294 | 2.1 | -4.7 | -0.4 | 1 | J |
| 20 | 362 | 4.7 | 27 | J | 5.2 | -1 | 293 | 1.9 | -4.2 | -1.4 | 2 | J |
| 21 | 365 | 5.2 | 29 | J | 5.0 | -42 | 303 | 1.9 | -1.8 | -4.0 | 2 | J |
| 22 | 363 | 5.1 | 28 | J | 5.3 | -21 | 293 | 1.9 | -3.5 | -3.2 | 1 | J |
| 23 | 359 | 5.2 | 24 | J | 5.4 | -3 | 287 | 1.5 | -4.5 | -1.9 | 2 | J |
| 24 | 360 | 5.1 | 26 | J | 5.4 | -9 | 291 | 1.6 | -3.6 | -2.0 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 348 | 5.1 | 31 | J | 5.3 | -21 | 326 | 3.3 | -1.6 | -2.2 | 3 | J |
| 2 | 354 | 5.1 | 30 | J | 5.3 | -4 | 290 | 1.6 | -4.2 | -1.6 | 2 | J |
| 3 | 352 | 5.4 | 32 | J | 5.4 | 6 | 295 | 2.1 | -4.4 | -0.6 | 2 | J |
| 4 | 351 | 6.1 | 31 | C | 5.5 | -7 | 273 | 0.3 | -5.2 | -1.7 | 1 | C |
| 5 | 363 | 8.0 | 20 | J | 3.3 | 75 | 330 | 0.7 | -0.8 | 3.0 | 1 | J |
| 6 | 361 | 7.9 | 33 | J | 3.5 | 52 | 333 | 1.8 | -1.1 | 2.4 | 1 | J |
| 7 | 340 | 7.3 | 23 | J | 4.5 | 20 | 332 | 3.7 | -2.0 | 1.4 | 2 | J |
| 8 | 329 | 6.2 | 15 | J | 5.8 | 0 | 333 | 5.1 | -2.6 | 0.0 | 1 | J |
| 9 | 327 | 7.8 | 22 | C | 6.2 | -11 | 314 | 4.2 | -4.4 | -1.0 | 1 | J |
| 10 | 342 | 5.3 | 23 | J | 6.3 | -20 | 311 | 3.9 | -4.6 | -1.9 | 0 | J |
| 11 | 347 | 6.2 | 24 | J | 4.7 | -2 | 301 | 2.1 | -3.4 | 0.1 | 3 | J |
| 12 | 360 | 10.6 | 22 | J | 4.4 | 38 | 294 | 1.4 | -2.9 | 2.9 | 1 | J |
| 13 | 354 | 10.5 | 30 | J | 4.5 | -4 | 279 | 0.7 | -4.3 | -0.0 | 1 | J |
| 14 | 351 | 11.2 | 23 | J | 3.5 | 11 | 259 | -0.7 | -3.3 | 0.8 | 0 | J |
| 15 | 350 | 7.8 | 20 | J | 6.5 | -1 | 264 | -0.7 | -6.5 | -0.2 | 1 | J |
| 16 | 343 | 8.1 | 17 | C | 6.7 | 4 | 263 | -0.8 | -6.5 | 0.0 | 1 | C |
| 17 | 340 | 8.4 | 19 | C | 6.6 | 13 | 270 | -0.0 | -6.5 | 0.6 | 1 | C |
| 18 | 346 | 8.2 | 18 | C | 6.7 | 13 | 261 | -1.0 | -6.4 | 0.3 | 1 | C |
| 19 | 339 | 8.6 | 19 | C | 6.6 | 25 | 257 | -1.3 | -6.3 | 1.2 | 1 | C |
| 20 | 330 | 8.9 | 21 | C | 5.8 | 22 | 268 | -0.2 | -5.6 | 0.5 | 2 | C |
| 21 | 329 | 8.9 | 19 | C | 6.4 | 13 | 276 | 0.6 | -6.1 | -0.6 | 2 | C |
| 22 | 327 | 10.3 | 19 | C | 6.0 | 0 | 273 | 0.3 | -5.4 | -1.9 | 2 | C |
| 23 | 331 | 9.7 | 14 | J | 5.7 | 0 | 258 | -1.2 | -5.2 | -1.9 | 1 | J |
| 24 | 331 | 8.5 | 15 | J | 6.4 | 10 | 265 | -0.5 | -6.1 | -1.0 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 323 | 8.8 | 23 | J | 5.6 | 12 | 274 | 0.3 | -4.9 | -0.5 | 3 | J |
| 2 | 319 | 12.2 | 24 | J | 3.5 | 43 | 207 | -2.2 | -1.7 | 1.9 | 1 | J |
| 3 | 323 | 9.2 | 20 | J | 4.7 | 42 | 248 | -1.3 | -3.8 | 2.2 | 1 | J |
| 4 | 318 | 10.7 | 16 | J | 4.6 | 65 | 248 | -0.7 | -2.5 | 3.7 | 1 | J |
| 5 | 315 | 12.3 | 15 | J | 4.3 | 65 | 252 | -0.6 | -2.2 | 3.6 | 0 | J |
| 6 | 309 | 12.1 | 16 | J | 4.1 | 57 | 252 | -0.7 | -2.4 | 3.3 | 1 | J |
| 7 | 310 | 10.5 | 14 | J | 4.4 | 40 | 266 | -0.2 | -3.4 | 2.7 | 1 | J |
| 8 | 308 | 10.9 | 14 | J | 4.4 | 35 | 264 | -0.4 | -3.5 | 2.5 | 1 | C |
| 9 | 309 | 10.9 | 14 | J | 4.6 | 12 | 270 | -0.0 | -4.2 | 1.1 | 2 | J |
| 10 | 302 | 12.3 | 14 | C | 4.7 | 13 | 272 | 0.2 | -4.3 | 1.4 | 1 | C |
| 11 | 301 | 11.6 | 12 | C | 4.8 | 28 | 268 | -0.1 | -4.0 | 2.6 | 1 | C |
| 12 | 305 | 11.5 | 14 | C | 5.1 | 18 | 276 | 0.5 | -4.7 | 1.9 | 1 | C |
| 13 | 302 | 13.1 | 13 | C | 4.9 | 1 | 282 | 1.0 | -4.7 | 0.4 | 1 | C |
| 14 | 302 | 13.6 | 13 | C | 4.7 | -31 | 297 | 1.8 | -3.6 | -2.2 | 1 | C |
| 15 | 300 | 13.6 | 13 | C | 4.3 | -47 | 289 | 0.8 | -2.3 | -2.6 | 2 | C |
| 16 | 298 | 13.1 | 17 | C | 3.8 | 5 | 298 | 1.5 | -2.8 | 0.1 | 2 | C |
| 17 | 304 | 13.6 | 17 | C | 4.2 | -9 | 315 | 2.4 | -2.4 | -0.8 | 2 | C |
| 18 | 302 | 14.6 | 16 | C | 4.6 | -19 | 304 | 2.3 | -3.1 | -2.0 | 1 | C |
| 19 | 303 | 14.6 | 15 | C | 4.2 | -33 | 319 | 2.1 | -1.3 | -2.2 | 3 | C |
| 20 | 310 | 11.9 | 19 | J | 4.1 | -47 | 329 | 2.3 | -0.5 | -3.1 | 1 | J |
| 21 | 307 | 11.9 | 17 | J | 4.6 | -37 | 341 | 3.4 | -0.3 | -2.9 | 1 | J |
| 22 | 310 | 11.9 | 23 | J | 5.0 | -39 | 339 | 3.5 | -0.3 | -3.3 | 1 | J |
| 23 | 309 | 11.6 | 19 | J | 5.1 | -47 | 352 | 3.1 | 0.7 | -3.3 | 2 | J |
| 24 | 307 | 10.8 | 18 | J | 5.6 | -46 | 4 | 3.6 | 1.5 | -3.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 302 | 13.3 | 17 | C | 5.7 | -31 | 20 | 4.5 | 2.4 | -2.3 | 0 | J |
| 2 | 299 | 13.1 | 21 | C | 5.8 | -40 | 0 | 4.1 | 0.9 | -3.3 | 2 | C |
| 3 | 306 | 11.5 | 18 | J | 5.8 | -30 | 13 | 4.6 | 1.7 | -2.4 | 2 | J |
| 4 | 304 | 12.1 | 15 | J | 6.1 | -20 | 26 | 4.9 | 2.7 | -1.5 | 2 | J |
| 5 | 302 | 12.6 | 15 | J | 6.0 | -24 | 34 | 4.4 | 3.2 | -2.0 | 1 | J |
| 6 | 303 | 13.0 | 15 | J | 6.1 | -31 | 25 | 4.7 | 2.4 | -2.9 | 1 | J |
| 7 | 307 | 12.7 | 16 | J | 6.4 | -54 | 12 | 3.7 | 0.9 | -5.2 | 1 | J |
| 8 | 303 | 13.4 | 14 | J | 6.7 | -39 | 30 | 4.4 | 2.5 | -4.2 | 1 | J |
| 9 | 310 | 13.7 | 19 | J | 7.1 | -49 | 49 | 3.0 | 3.2 | -5.4 | 1 | C |
| 10 | 312 | 13.8 | 18 | J | 7.2 | -40 | 52 | 3.3 | 3.9 | -4.9 | 1 | J |
| 11 | 307 | 13.7 | 19 | J | 7.3 | -21 | 52 | 4.1 | 5.0 | -3.0 | 2 | J |
| 12 | 314 | 13.0 | 26 | J | 7.7 | -23 | 50 | 4.3 | 4.8 | -3.3 | 3 | J |
| 13 | 311 | 13.5 | 18 | J | 7.9 | -20 | 58 | 3.9 | 6.0 | -3.1 | 2 | J |
| 14 | 322 | 13.3 | 24 | J | 7.8 | 0 | 57 | 3.5 | 5.4 | -0.3 | 4 | J |
| 15 | 321 | 13.5 | 40 | J | 8.7 | 14 | 47 | 5.6 | 6.0 | 2.0 | 2 | J |
| 16 | 324 | 12.9 | 34 | J | 8.9 | 18 | 53 | 5.0 | 6.5 | 3.0 | 2 | J |
| 17 | 318 | 13.9 | 35 | J | 8.8 | 6 | 55 | 4.9 | 6.9 | 1.7 | 2 | J |
| 18 | 320 | 14.8 | 28 | J | 8.6 | -4 | 64 | 3.7 | 7.5 | 0.7 | 2 | J |
| 19 | 318 | 14.5 | 26 | J | 8.7 | -1 | 68 | 3.2 | 7.8 | 1.7 | 1 | J |
| 20 | 317 | 17.5 | 28 | J | 8.5 | 6 | 54 | 4.7 | 6.0 | 2.6 | 3 | J |
| 21 | 311 | 17.7 | 29 | J | 8.4 | -8 | 51 | 4.9 | 6.0 | 0.8 | 3 | J |
| 22 | 311 | 17.9 | 27 | J | 9.0 | 8 | 65 | 3.7 | 7.1 | 3.7 | 2 | J |
| 23 | 310 | 15.1 | 25 | J | 9.9 | 2 | 65 | 4.1 | 8.3 | 3.2 | 1 | J |
| 24 | 312 | 14.0 | 24 | J | 10.3 | -1 | 68 | 3.8 | 9.0 | 2.8 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305 | 14.0 | 25 | J | 10.7 | 23 | 56 | 5.3 | 6.3 | 6.1 | 3 | J |
| 2 | 301 | 12.5 | 15 | J | 10.8 | 33 | 48 | 6.0 | 4.9 | 7.4 | 1 | J |
| 3 | 296 | 12.7 | 19 | J | 11.0 | 35 | 44 | 6.5 | 4.7 | 7.5 | 1 | J |
| 4 | 295 | 13.7 | 20 | J | 11.1 | 37 | 55 | 5.0 | 5.9 | 7.8 | 2 | J |
| 5 | 289 | 13.6 | 21 | J | 10.9 | 40 | 59 | 4.3 | 6.2 | 7.8 | 2 | J |
| 6 | 286 | 20.1 | 18 | C | 10.9 | 47 | 69 | 2.6 | 6.3 | 8.4 | 1 | J |
| 7 | 287 | 18.9 | 18 | C | 12.3 | 55 | 61 | 3.2 | 5.7 | 9.6 | 4 | C |
| 8 | 282 | 15.4 | 29 | J | 10.7 | 10 | 40 | 8.1 | 6.8 | 1.7 | 1 | J |
| 9 | 277 | 17.6 | 19 | C | 10.4 | 16 | 39 | 7.7 | 6.4 | 2.5 | 1 | J |
| 10 | 284 | 20.5 | 20 | C | 11.4 | 38 | 27 | 7.9 | 4.6 | 6.4 | 2 | C |
| 11 | 332 | 19.0 | 21 | C | 11.4 | 54 | 104 | -1.6 | 7.2 | 8.3 | 2 | C |
| 12 | 280 | 18.8 | 22 | J | 11.0 | 57 | 37 | 4.7 | 4.5 | 8.7 | 1 | J |
| 13 | 270 | 19.0 | 20 | J | 11.7 | 59 | 38 | 4.6 | 4.4 | 9.4 | 3 | J |
| 14 | 272 | 19.4 | 18 | J | 12.0 | 54 | 47 | 4.7 | 5.6 | 9.3 | 2 | J |
| 15 | 282 | 20.3 | 24 | J | 12.4 | 70 | 39 | 3.2 | 2.7 | 11.4 | 2 | J |
| 16 | 277 | 20.7 | 16 | J | 12.3 | 64 | 17 | 5.2 | 1.1 | 11.1 | 0 | J |
| 17 | 282 | 16.6 | 20 | J | 13.2 | 60 | 305 | 3.8 | -6.5 | 10.7 | 1 | J |
| 18 | 282 | 17.5 | 21 | J | 12.7 | 53 | 303 | 4.1 | -7.9 | 8.9 | 1 | J |
| 19 | 278 | 17.3 | 16 | J | 12.6 | 44 | 307 | 5.3 | -8.7 | 6.7 | 3 | J |
| 20 | 279 | 19.2 | 21 | J | 12.0 | 41 | 304 | 4.9 | -9.0 | 5.4 | 3 | J |
| 21 | 278 | 19.9 | 28 | J | 10.9 | 37 | 296 | 3.8 | -9.3 | 3.9 | 2 | J |
| 22 | 277 | 18.0 | 27 | J | 11.1 | 42 | 302 | 4.3 | -8.9 | 4.8 | 1 | J |
| 23 | 277 | 17.4 | 26 | J | 10.7 | 41 | 306 | 4.7 | -8.3 | 4.5 | 2 | J |
| 24 | 278 | 14.7 | 22 | J | 11.6 | 29 | 296 | 4.4 | -10.3 | 2.5 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 277 | 15.5 | 25 | J | 12.0 | 26 | 289 | 3.5 | -11.3 | 2.1 | 1 | J |
| 2 | 287 | 15.7 | 40 | J | 12.0 | 29 | 295 | 4.2 | -10.2 | 3.0 | 3 | J |
| 3 | 288 | 15.3 | 39 | J | 12.3 | 3 | 290 | 4.1 | -11.2 | -1.8 | 2 | J |
| 4 | 283 | 13.8 | 35 | J | 12.7 | 11 | 304 | 6.8 | -10.3 | 0.6 | 3 | J |
| 5 | 294 | 13.5 | 33 | J | 12.8 | 12 | 299 | 6.1 | -11.2 | 1.4 | 1 | J |
| 6 | 284 | 12.7 | 27 | J | 13.0 | 7 | 297 | 5.8 | -11.4 | 0.8 | 2 | J |
| 7 | 281 | 12.3 | 22 | J | 13.1 | 9 | 301 | 6.7 | -11.1 | 1.9 | 1 | J |
| 8 | 280 | 12.8 | 28 | J | 13.2 | 7 | 299 | 6.4 | -11.4 | 2.0 | 1 | J |
| 9 | 283 | 13.9 | 30 | J | 13.0 | 5 | 298 | 6.0 | -11.2 | 1.9 | 1 | J |
| 10 | 294 | 25.1 | 41 | J | 10.0 | -8 | 300 | 4.5 | -7.8 | -0.5 | 5 | J |
| 11 | 298 | 27.6 | 48 | J | 10.3 | 11 | 305 | 5.0 | -6.9 | 2.4 | 6 | J |
| 12 | 306 | 35.6 | 43 | J | 7.3 | -45 | 231 | -2.6 | -3.6 | -3.7 | 5 | J |
| 13 | 300 | 40.4 | 22 | J | 7.2 | -37 | 131 | -3.7 | 3.9 | -4.6 | 2 | J |
| 14 | 293 | 42.0 | 25 | J | 7.6 | -26 | 129 | -3.9 | 4.6 | -3.3 | 3 | J |
| 15 | 295 | 36.7 | 24 | J | 7.5 | -15 | 112 | -2.6 | 6.5 | -2.0 | 2 | J |
| 16 | 308 | 28.4 | 25 | J | 11.3 | -22 | 126 | -6.0 | 8.5 | -3.9 | 2 | J |
| 17 | 300 | 21.7 | 30 | J | 11.6 | -16 | 125 | -6.3 | 9.3 | -2.3 | 1 | J |
| 18 | 304 | 23.7 | 47 | J | 10.3 | -4 | 114 | -3.9 | 8.7 | 0.7 | 4 | J |
| 19 | 316 | 17.4 | 48 | J | 12.7 | 23 | 85 | 0.9 | 9.5 | 6.8 | 5 | J |
| 20 | 381 | 38.9 | 116 | J | 12.5 | 21 | 99 | -1.8 | 9.9 | 7.3 | 2 | J |
| 21 | 488 | 14.5 | 344 | C | 34.9 | 7 | 125 | -16.9 | 21.9 | 10.3 | 18 | C |
| 22 | 633 | 3.4 | 893 | C | 54.4 | -18 | 128 | -31.6 | 43.1 | -3.2 | 7 | C |
| 23 | 538 | 0.3 | 366 | C | 51.1 | 5 | 123 | -26.3 | 36.5 | 16.5 | 16 | C |
| 24 | 542 | 7.8 | 625 | C | 39.2 | 20 | 134 | -21.9 | 18.4 | 18.1 | 16 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 561 | 13.8 | 596 | C | 33.6 | -4 | 123 | -17.1 | 26.2 | 5.4 | 10 | C |
| 2 | 531 | 9.0 | 618 | C | 25.1 | 8 | 140 | -17.5 | 13.2 | 6.8 | 9 | C |
| 3 | 545 | 6.8 | 656 | C | 23.9 | -6 | 110 | -7.8 | 21.5 | 2.2 | 6 | C |
| 4 | 528 | 6.8 | 485 | C | 24.5 | -29 | 125 | -10.4 | 16.2 | -7.4 | 11 | C |
| 5 | 523 | 6.7 | 517 | C | 17.9 | -34 | 119 | -6.4 | 12.4 | -7.7 | 6 | C |
| 6 | 504 | 6.5 | 303 | C | 16.1 | -16 | 126 | -8.2 | 11.5 | -3.2 | 6 | C |
| 7 | 589 | 5.8 | 294 | C | 7.8 | -10 | 126 | -4.3 | 5.9 | -1.3 | 3 | C |
| 8 | 599 | 4.4 | 277 | C | 6.0 | 28 | 108 | -1.4 | 4.4 | 2.3 | 2 | C |
| 9 | 605 | 3.7 | 274 | C | 6.1 | 50 | 37 | 2.5 | 2.1 | 3.5 | 4 | C |
| 10 | 596 | 3.7 | 263 | C | 5.7 | 48 | 67 | 1.2 | 3.2 | 3.1 | 3 | C |
| 11 | 588 | 3.4 | 257 | C | 5.3 | 59 | 54 | 1.4 | 2.4 | 3.8 | 2 | C |
| 12 | 585 | 3.3 | 250 | C | 5.6 | 36 | 116 | -1.7 | 3.8 | 2.4 | 3 | C |
| 13 | 589 | 2.8 | 218 | C | 7.2 | 2 | 129 | -4.2 | 5.2 | -0.3 | 3 | C |
| 14 | 597 | 2.7 | 182 | C | 7.0 | -14 | 140 | -4.9 | 4.0 | -1.9 | 2 | C |
| 15 | 603 | 2.5 | 187 | C | 6.9 | 0 | 135 | -4.8 | 4.7 | -0.1 | 1 | C |
| 16 | 641 | 2.2 | 159 | C | 6.1 | -74 | 139 | -1.1 | 1.1 | -5.1 | 2 | C |
| 17 | 622 | 1.9 | 151 | C | 5.8 | -32 | 107 | -1.3 | 4.6 | -2.5 | 2 | C |
| 18 | 647 | 2.1 | 149 | C | 5.2 | -73 | 351 | 1.1 | 0.4 | -3.6 | 3 | C |
| 19 | 623 | 2.3 | 152 | C | 4.5 | 49 | 203 | -1.2 | -0.8 | 1.4 | 4 | C |
| 20 | 611 | 2.3 | 95 | C | 4.6 | 57 | 192 | -2.4 | -1.4 | 3.5 | 1 | C |
| 21 | 617 | 2.4 | 133 | C | 4.9 | 39 | 238 | -1.4 | -2.8 | 1.4 | 3 | C |
| 22 | 608 | 2.3 | 121 | C | 4.7 | 46 | 191 | -2.5 | -1.3 | 2.4 | 2 | C |
| 23 | 603 | 2.2 | 131 | C | 4.4 | 4 | 182 | -3.6 | -0.2 | 0.2 | 2 | C |
| 24 | 609 | 2.2 | 128 | C | 4.5 | 34 | 206 | -2.5 | -1.7 | 1.4 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 631 | 2.3 | 112 | C | 4.5 | 48 | 272 | 0.1 | -3.4 | 2.1 | 2 | C |
| 2 | 597 | 2.4 | 111 | C | 4.5 | -20 | 187 | -3.4 | -0.1 | -1.3 | 2 | C |
| 3 | 611 | 2.4 | 111 | C | 4.4 | 25 | 218 | -2.1 | -1.8 | 0.9 | 3 | C |
| 4 | 601 | 2.5 | 112 | C | 4.3 | 42 | 223 | -1.9 | -2.2 | 2.1 | 2 | C |
| 5 | 605 | 2.3 | 113 | C | 4.5 | 43 | 213 | -2.3 | -1.7 | 2.4 | 2 | C |
| 6 | 592 | 2.1 | 102 | C | 4.9 | 53 | 205 | -2.2 | -1.1 | 3.1 | 2 | C |
| 7 | 587 | 2.2 | 111 | C | 4.7 | 23 | 215 | -2.0 | -1.4 | 1.0 | 4 | C |
| 8 | 597 | 2.4 | 129 | C | 4.6 | 25 | 236 | -1.4 | -2.1 | 1.3 | 3 | C |
| 9 | 597 | 2.2 | 113 | C | 4.7 | 1 | 229 | -2.2 | -2.6 | 0.2 | 2 | C |
| 10 | 565 | 2.0 | 100 | C | 4.8 | 31 | 174 | -3.3 | 0.5 | 1.9 | 2 | C |
| 11 | 583 | 2.2 | 108 | C | 4.9 | 29 | 199 | -3.4 | -0.9 | 2.1 | 2 | C |
| 12 | 594 | 2.5 | 120 | C | 4.9 | 46 | 226 | -2.0 | -1.7 | 3.1 | 2 | C |
| 13 | 572 | 2.4 | 107 | C | 4.9 | 34 | 184 | -3.4 | 0.0 | 2.3 | 2 | C |
| 14 | 567 | 2.2 | 105 | C | 4.9 | 6 | 169 | -4.0 | 0.8 | 0.4 | 2 | C |
| 15 | 582 | 2.3 | 119 | C | 5.0 | 21 | 186 | -3.9 | -0.4 | 1.6 | 2 | C |
| 16 | 581 | 2.6 | 117 | C | 5.2 | 24 | 163 | -3.3 | 1.0 | 1.5 | 3 | C |
| 17 | 598 | 2.6 | 122 | C | 5.2 | 3 | 124 | -2.5 | 3.6 | 0.5 | 2 | C |
| 18 | 577 | 2.4 | 130 | C | 5.1 | -11 | 157 | -4.2 | 1.9 | -0.7 | 2 | C |
| 19 | 574 | 2.2 | 125 | C | 5.2 | -30 | 167 | -4.1 | 1.4 | -2.2 | 1 | C |
| 20 | 562 | 2.4 | 122 | C | 5.4 | 10 | 182 | -5.0 | -0.3 | 0.8 | 2 | C |
| 21 | 606 | 2.7 | 181 | C | 4.5 | 12 | 195 | -2.9 | -0.9 | 0.4 | 3 | C |
| 22 | 623 | 3.1 | 186 | C | 4.9 | 42 | 219 | -1.5 | -1.7 | 1.3 | 4 | C |
| 23 | 618 | 3.0 | 188 | C | 4.8 | -14 | 143 | -2.9 | 2.4 | -0.2 | 2 | C |
| 24 | 599 | 2.8 | 164 | C | 4.8 | -14 | 167 | -3.7 | 1.1 | -0.7 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 616 | 3.1 | 191 | C | 4.6 | 11 | 176 | -2.6 | 0.0 | 0.5 | 3 | C |
| 2 | 610 | 3.1 | 181 | C | 4.9 | 25 | 205 | -3.3 | -1.9 | 1.3 | 2 | C |
| 3 | 614 | 3.2 | 179 | C | 5.1 | -6 | 148 | -2.9 | 1.8 | -0.0 | 3 | C |
| 4 | 587 | 2.8 | 148 | C | 5.0 | -20 | 184 | -4.5 | -0.1 | -1.6 | 1 | C |
| 5 | 597 | 3.1 | 147 | C | 5.2 | 18 | 149 | -3.6 | 2.0 | 1.5 | 3 | C |
| 6 | 648 | 3.0 | 156 | C | 5.3 | 63 | 131 | -0.6 | 0.6 | 1.8 | 4 | C |
| 7 | 655 | 3.1 | 168 | C | 5.7 | 31 | 196 | -0.4 | -0.1 | 0.2 | 5 | C |
| 8 | 652 | 2.9 | 173 | C | 5.4 | 70 | 140 | -1.1 | 1.1 | 3.9 | 3 | C |
| 9 | 651 | 2.6 | 206 | C | 5.1 | 32 | 124 | -1.8 | 2.8 | 1.7 | 3 | C |
| 10 | 621 | 2.4 | 192 | C | 5.1 | -5 | 179 | -4.2 | 0.0 | -0.3 | 2 | C |
| 11 | 632 | 2.5 | 175 | C | 5.2 | -9 | 211 | -3.6 | -2.2 | -0.4 | 2 | C |
| 12 | 630 | 2.5 | 164 | C | 5.4 | 1 | 209 | -4.3 | -2.3 | 0.4 | 2 | C |
| 13 | 620 | 2.6 | 147 | C | 5.4 | 4 | 200 | -4.6 | -1.6 | 0.6 | 2 | C |
| 14 | 619 | 2.4 | 162 | C | 5.5 | -14 | 178 | -4.2 | 0.1 | -1.0 | 3 | C |
| 15 | 600 | 2.1 | 145 | C | 5.8 | -7 | 152 | -4.9 | 2.5 | -0.7 | 1 | C |
| 16 | 621 | 2.1 | 149 | C | 5.8 | 0 | 139 | -3.6 | 3.2 | 0.0 | 2 | C |
| 17 | 625 | 2.1 | 173 | C | 5.5 | -16 | 168 | -3.3 | 0.7 | -0.9 | 3 | C |
| 18 | 627 | 2.0 | 169 | C | 5.6 | 18 | 129 | -2.6 | 3.0 | 1.8 | 3 | C |
| 19 | 623 | 2.0 | 168 | C | 5.6 | -13 | 154 | -3.4 | 1.8 | -0.5 | 3 | C |
| 20 | 611 | 2.0 | 181 | C | 5.5 | 11 | 148 | -3.5 | 1.9 | 1.3 | 3 | C |
| 21 | 609 | 1.9 | 162 | C | 5.6 | 1 | 151 | -3.5 | 1.9 | 0.6 | 3 | C |
| 22 | 619 | 2.0 | 164 | C | 5.6 | 23 | 159 | -3.8 | 0.9 | 2.1 | 3 | C |
| 23 | 592 | 1.9 | 147 | C | 5.6 | 26 | 164 | -4.3 | 0.6 | 2.4 | 2 | C |
| 24 | 592 | 1.8 | 125 | C | 5.6 | 13 | 154 | -4.1 | 1.6 | 1.6 | 3 | C |

JUN. 10, 1979 — 161

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 575 | 1.9 | 130 | C | 5.5 | -3 | 151 | -4.5 | 2.4 | 0.4 | 2 | C |
| 2 | 587 | 1.9 | 143 | C | 5.5 | 17 | 168 | -4.1 | 0.6 | 1.4 | 2 | C |
| 3 | 583 | 1.9 | 152 | C |  |  |  |  |  |  |  |  |
| 4 | 583 | 1.9 | 141 | C |  |  |  |  |  |  |  |  |
| 5 | 581 | 1.9 | 136 | C |  |  |  |  |  |  |  |  |
| 6 | 592 | 1.7 | 134 | C |  |  |  |  |  |  |  |  |
| 7 | 591 | 1.8 | 134 | C | 5.5 | -22 | 172 | -4.7 | 0.6 | -2.0 | 1 | C |
| 8 | 588 | 1.9 | 134 | C | 5.4 | -39 | 164 | -3.9 | 0.9 | -3.4 | 1 | C |
| 9 | 577 | 1.7 | 117 | C | 5.5 | 15 | 163 | -4.3 | 1.4 | 1.0 | 2 | C |
| 10 | 560 | 1.9 | 112 | C | 5.5 | -15 | 176 | -5.0 | 0.2 | -1.4 | 1 | C |
| 11 | 556 | 2.0 | 106 | C | 5.5 | 12 | 174 | -5.0 | 0.6 | 1.0 | 2 | C |
| 12 | 559 | 2.1 | 136 | C | 5.8 | 15 | 187 | -4.5 | -0.4 | 1.3 | 3 | C |
| 13 | 548 | 2.1 | 103 | C | 6.0 | -7 | 179 | -5.3 | -0.0 | -0.7 | 2 | C |
| 14 | 559 | 2.2 | 136 | C | 5.8 | -32 | 180 | -4.6 | -0.3 | -2.9 | 2 | C |
| 15 | 565 | 2.3 | 138 | C | 5.8 | -18 | 172 | -4.6 | 0.5 | -1.5 | 3 | C |
| 16 | 572 | 2.1 | 132 | C | 5.7 | 4 | 145 | -3.7 | 2.5 | 0.4 | 3 | C |
| 17 | 549 | 2.3 | 121 | C | 5.7 | 0 | 171 | -5.4 | 0.8 | 0.0 | 2 | C |
| 18 | 600 | 2.4 | 163 | C | 5.6 | 18 | 170 | -2.7 | 0.3 | 0.9 | 4 | C |
| 19 | 568 | 2.4 | 178 | C | 5.8 | 11 | 169 | -4.3 | 0.6 | 1.0 | 3 | C |
| 20 | 565 | 2.3 | 161 | C | 5.7 | 37 | 178 | -3.3 | -0.5 | 2.5 | 3 | C |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | 609 | 2.1 | 216 | C | 4.7 | 55 | 107 | -0.5 | 0.9 | 2.8 | 3 | C |
| 24 | 588 | 2.3 | 229 | C | 5.1 | -8 | 126 | -2.2 | 3.1 | 0.3 | 3 | C |

JUN. 11, 1979 — 162

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 602 | 2.1 | 207 | C | 5.4 | 24 | 109 | -1.4 | 3.3 | 2.8 | 2 | C |
| 2 | 586 | 2.2 | 229 | C | 5.2 | 10 | 127 | -2.4 | 2.9 | 1.4 | 3 | C |
| 3 | 551 | 1.9 | 161 | C | 5.1 | 7 | 156 | -4.2 | 1.8 | 0.9 | 2 | C |
| 4 | 577 | 2.2 | 208 | C | 5.3 | -6 | 219 | -3.5 | -2.8 | -0.9 | 2 | C |
| 5 | 595 | 2.2 | 181 | C | 5.5 | 17 | 237 | -2.1 | -3.3 | 0.9 | 3 | C |
| 6 | 589 | 2.1 | 180 | C | 5.5 | 16 | 223 | -3.6 | -3.4 | 1.3 | 1 | C |
| 7 | 600 | 2.1 | 181 | C | 5.7 | 35 | 229 | -2.7 | -3.1 | 2.9 | 2 | C |
| 8 | 559 | 2.1 | 191 | C | 5.6 | 12 | 196 | -4.7 | -1.3 | 1.1 | 2 | C |
| 9 | 564 | 2.1 | 202 | C | 5.5 | -22 | 169 | -4.7 | 0.7 | -2.0 | 1 | C |
| 10 | 551 | 2.2 | 186 | C | 5.5 | 10 | 184 | -5.2 | -0.2 | 1.0 | 1 | C |
| 11 | 553 | 2.0 | 158 | C | 5.5 | -7 | 191 | -5.2 | -1.0 | -0.5 | 1 | C |
| 12 | 558 | 2.0 | 162 | C | 5.6 | -21 | 153 | -4.0 | 1.8 | -2.0 | 3 | C |
| 13 | 563 | 2.1 | 195 | C | 5.9 | -23 | 126 | -3.0 | 3.9 | -2.7 | 1 | C |
| 14 | 556 | 2.1 | 144 | C | 6.1 | -19 | 183 | -5.3 | -0.4 | -1.8 | 2 | C |
| 15 | 566 | 2.0 | 133 | C | 6.0 | -12 | 169 | -4.3 | 0.8 | -1.0 | 4 | C |
| 16 | 577 | 2.1 | 167 | C | 6.1 | -3 | 209 | -5.0 | -2.8 | -0.3 | 2 | C |
| 17 | 564 | 2.1 | 168 | C | 6.0 | 6 | 175 | -5.2 | 0.4 | 0.6 | 3 | C |
| 18 | 610 | 2.1 | 174 | C | 5.8 | 57 | 160 | -2.5 | 0.4 | 4.1 | 2 | C |
| 19 | 558 | 1.9 | 155 | C | 5.5 | 10 | 183 | -4.7 | -0.4 | 0.8 | 2 | C |
| 20 | 592 | 1.5 | 161 | C | 5.6 | -7 | 125 | -3.0 | 4.4 | 0.3 | 2 | C |
| 21 | 577 | 1.5 | 182 | C | 6.0 | -11 | 129 | -3.6 | 4.5 | 0.1 | 1 | C |
| 22 | 544 | 1.5 | 134 | C | 5.9 | -9 | 173 | -5.5 | 0.9 | -0.7 | 1 | C |
| 23 | 567 | 1.4 | 164 | C | 5.5 | -2 | 150 | -3.8 | 2.1 | 0.5 | 3 | C |
| 24 | 612 | 1.4 | 171 | C | 5.9 | -29 | 98 | -0.6 | 4.5 | -1.1 | 3 | C |

JUN. 12, 1979 — 163

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 531 | 1.4 | 128 | C | 6.1 | -19 | 141 | -4.4 | 3.9 | -1.0 | 1 | C |
| 2 | 533 | 1.3 | 109 | C | 6.1 | -14 | 144 | -4.6 | 3.7 | -0.7 | 1 | C |
| 3 | 534 | 1.5 | 128 | C | 6.0 | 1 | 153 | -4.8 | 2.4 | 0.5 | 2 | C |
| 4 | 549 | 1.6 | 142 | C | 5.7 | -9 | 152 | -4.4 | 2.5 | -0.5 | 2 | C |
| 5 | 512 | 1.5 | 110 | C | 5.8 | 11 | 169 | -5.3 | 1.0 | 1.1 | 2 | C |
| 6 | 523 | 1.5 | 124 | C | 5.5 | -7 | 137 | -3.2 | 3.0 | -0.5 | 3 | C |
| 7 | 521 | 1.4 | 109 | C | 5.6 | -7 | 147 | -4.4 | 2.9 | -0.7 | 1 | C |
| 8 | 493 | 1.4 | 86 | C | 5.8 | -6 | 159 | -5.3 | 2.0 | -0.7 | 1 | C |
| 9 | 492 | 1.5 | 81 | C | 5.7 | -7 | 167 | -5.5 | 1.2 | -0.8 | 1 | C |
| 10 | 496 | 1.6 | 91 | C | 5.6 | -6 | 166 | -5.3 | 1.2 | -0.7 | 1 | C |
| 11 | 489 | 1.6 | 90 | C | 5.7 | -7 | 165 | -5.4 | 1.3 | -0.8 | 1 | C |
| 12 | 447 | 1.6 | 66 | C | 5.8 | -7 | 166 | -5.5 | 1.3 | -0.9 | 1 | C |
| 13 | 468 | 1.5 | 72 | C | 5.9 | 7 | 149 | -4.9 | 3.0 | 0.3 | 1 | C |
| 14 | 469 | 1.5 | 74 | C | 5.9 | 11 | 144 | -4.6 | 3.4 | 0.8 | 1 | C |
| 15 | 474 | 1.5 | 77 | C | 5.8 | 7 | 135 | -4.0 | 4.0 | 0.4 | 1 | C |
| 16 | 466 | 1.5 | 65 | C | 5.9 | 4 | 142 | -4.5 | 3.6 | 0.4 | 1 | C |
| 17 | 463 | 1.6 | 68 | C | 5.8 | -3 | 141 | -4.4 | 3.6 | -0.1 | 1 | C |
| 18 | 476 | 1.6 | 72 | C | 5.8 | 15 | 131 | -3.5 | 3.7 | 1.9 | 2 | C |
| 19 | 441 | 1.5 | 61 | C | 6.0 | -15 | 159 | -5.3 | 2.3 | -1.2 | 0 | C |
| 20 | 445 | 1.9 | 95 | L |  |  |  |  |  |  |  |  |
| 21 | 482 | 2.3 | 124 | L |  |  |  |  |  |  |  |  |
| 22 | 449 | 2.2 | 121 | L | 6.4 | -19 | 123 | -3.0 | 5.0 | -0.6 | 1 | C |
| 23 | 466 | 2.2 | 76 | C | 6.3 | -20 | 140 | -3.7 | 3.4 | -0.8 | 3 | C |
| 24 | 466 | 2.5 | 74 | C | 6.3 | -10 | 141 | -3.5 | 3.0 | 0.0 | 4 | C |

JUN. 13, 1979 — 164

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 409 | 3.0 | 59 | C | 6.5 | 27 | 88 | 0.2 | 4.9 | 4.2 | 1 | C |
| 2 | 456 | 2.9 | 66 | C | 6.4 | 28 | 96 | -0.5 | 4.4 | 3.7 | 2 | C |
| 3 | 424 | 3.0 | 66 | C | 6.5 | 4 | 145 | -4.8 | 3.3 | 1.0 | 2 | C |
| 4 | 411 | 2.8 | 64 | C | 6.4 | 6 | 148 | -5.3 | 3.2 | 1.0 | 1 | C |
| 5 | 405 | 2.9 | 55 | C | 6.3 | 3 | 157 | -5.7 | 2.4 | 0.5 | 1 | C |
| 6 | 417 | 3.0 | 53 | C | 6.6 | -5 | 153 | -5.7 | 2.9 | -0.5 | 1 | C |
| 7 | 422 | 3.5 | 92 | L | 7.4 | 2 | 163 | -6.5 | 2.0 | 0.2 | 3 | J |
| 8 | 420 | 3.3 | 93 | L | 6.4 | 27 | 164 | -5.2 | 1.7 | 2.6 | 2 | J |
| 9 | 439 | 3.5 | 86 | L | 6.7 | 38 | 125 | -2.9 | 4.6 | 3.4 | 2 | J |
| 10 | 433 | 4.3 | 64 | L | 6.1 | 53 | 143 | -2.8 | 2.8 | 4.4 | 2 | J |
| 11 | 418 | 3.6 | 46 | L | 6.2 | 32 | 154 | -4.5 | 2.7 | 2.7 | 2 | J |
| 12 | 370 | 1.4 | 162 | L | 7.3 | 24 | 156 | -5.8 | 3.0 | 2.4 | 2 | J |
| 13 | 423 | 1.8 | 221 | L | 6.3 | 5 | 146 | -3.8 | 2.6 | 0.0 | 4 | J |
| 14 | 511 | 1.8 | 151 | J | 5.6 | -33 | 85 | 0.4 | 4.1 | -3.4 | 2 | J |
| 15 | 517 | 1.5 | 135 | J | 6.1 | -41 | 115 | -1.7 | 3.3 | -3.6 | 3 | J |
| 16 | 415 | 1.2 | 85 | C | 6.9 | -31 | 142 | -4.3 | 3.3 | -3.3 | 3 | J |
| 17 | 408 | 1.5 | 53 | C | 7.1 | 9 | 149 | -4.8 | 2.9 | 1.0 | 4 | J |
| 18 | 542 | 1.0 | 39 | J | 6.6 | -2 | 138 | -3.5 | 3.1 | 0.2 | 5 | J |
| 19 | 483 | 1.6 | 131 | C | 6.7 | -19 | 110 | -2.1 | 6.0 | -1.1 | 2 | J |
| 20 | 540 | 0.8 | 26 | J | 6.6 | -32 | 81 | 0.8 | 5.6 | -2.0 | 3 | J |
| 21 | 486 | 2.5 | 71 | C | 6.7 | -27 | 89 | 0.1 | 6.0 | -1.4 | 2 | J |
| 22 | 460 | 2.1 | 52 | J | 6.7 | -49 | 94 | -0.3 | 5.1 | -3.4 | 3 | J |
| 23 | 446 | 1.4 | 60 | J | 6.3 | -44 | 102 | -0.9 | 4.9 | -2.7 | 3 | J |
| 24 | 418 | 2.1 | 55 | J | 6.3 | -34 | 109 | -1.6 | 5.5 | -2.1 | 1 | J |

JUN. 14, 1979 — 165

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 428 | 2.6 | 42 | J | 6.2 | -55 | 81 | 0.5 | 4.5 | -4.0 | 1 | J |
| 2 | 401 | 1.6 | 43 | J | 6.0 | -42 | 109 | -1.5 | 4.9 | -3.1 | 1 | J |
| 3 | 404 | 1.6 | 28 | J | 5.9 | -31 | 105 | -1.3 | 5.3 | -2.2 | 1 | J |
| 4 | 374 | 2.3 | 49 | C | 6.2 | -16 | 123 | -3.0 | 4.8 | -1.1 | 2 | C |
| 5 | 392 | 6.2 | 43 | J | 3.6 | -7 | 112 | -1.1 | 2.7 | -0.2 | 3 | J |
| 6 | 400 | 9.4 | 41 | J | 1.9 | 20 | 126 | -0.7 | 0.9 | 0.4 | 2 | J |
| 7 | 397 | 7.6 | 54 | J | 3.1 | 11 | 74 | 0.6 | 2.0 | 0.3 | 2 | J |
| 8 | 390 | 7.3 | 50 | J | 3.6 | -22 | 144 | -1.5 | 1.0 | -0.8 | 3 | J |
| 9 | 364 | 4.4 | 48 | J | 4.6 | 8 | 117 | -2.0 | 4.0 | 0.1 | 1 | J |
| 10 | 364 | 3.2 | 26 | J | 5.4 | -8 | 107 | -1.5 | 4.9 | -1.5 | 1 | J |
| 11 | 373 | 7.4 | 38 | J | 3.2 | -23 | 82 | 0.3 | 1.9 | -1.2 | 2 | J |
| 12 | 377 | 9.0 | 28 | J | 3.5 | -6 | 68 | 1.0 | 2.4 | -0.7 | 2 | J |
| 13 | 380 | 8.7 | 37 | J | 4.9 | 5 | 54 | 2.9 | 4.0 | -0.2 | 1 | J |
| 14 | 373 | 8.0 | 23 | C | 4.3 | 11 | 32 | 3.5 | 2.3 | 0.6 | 1 | C |
| 15 | 354 | 6.7 | 44 | J | 3.5 | -20 | 117 | -1.3 | 2.4 | -1.2 | 2 | J |
| 16 | 353 | 5.3 | 64 | J | 4.5 | -8 | 129 | -2.7 | 3.4 | -0.7 | 1 | J |
| 17 | 348 | 4.3 | 25 | J | 5.5 | -30 | 125 | -2.4 | 3.5 | -2.3 | 3 | J |
| 18 | 345 | 5.0 | 21 | J | 5.9 | -27 | 122 | -2.7 | 4.6 | -2.2 | 1 | J |
| 19 | 349 | 6.0 | 28 | J | 6.8 | 5 | 119 | -3.1 | 5.5 | 1.5 | 2 | J |
| 20 | 348 | 7.6 | 23 | J | 6.5 | 18 | 113 | -2.3 | 5.0 | 3.0 | 2 | J |
| 21 | 338 | 6.0 | 32 | J | 6.7 | -7 | 133 | -4.3 | 4.7 | 0.4 | 2 | J |
| 22 | 330 | 5.3 | 35 | J | 6.3 | -7 | 145 | -4.9 | 3.5 | 0.2 | 2 | J |
| 23 | 336 | 7.4 | 22 | J | 5.6 | 20 | 131 | -3.1 | 3.0 | 2.6 | 2 | J |
| 24 | 347 | 8.6 | 34 | C | 6.3 | -6 | 102 | -1.3 | 5.8 | 0.8 | 2 | C |

JUN. 15, 1979 — 166

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 341 | 9.9 | 31 | C | 7.9 | 3 | 120 | -3.7 | 6.3 | 1.8 | 2 | C |
| 2 | 336 | 10.2 | 31 | C | 7.9 | 3 | 118 | -3.4 | 6.1 | 1.6 | 3 | C |
| 3 | 346 | 10.0 | 29 | C | 7.8 | -10 | 100 | -1.2 | 7.4 | -0.2 | 2 | C |
| 4 | 343 | 11.9 | 23 | C | 7.9 | -18 | 92 | -0.2 | 7.6 | -1.6 | 2 | C |
| 5 | 339 | 12.1 | 19 | J | 7.9 | -17 | 105 | -1.9 | 7.1 | -1.8 | 2 | J |
| 6 | 329 | 12.6 | 23 | J | 8.4 | 0 | 134 | -5.2 | 5.4 | 0.0 | 4 | J |
| 7 | 344 | 19.2 | 37 | J | 8.5 | -38 | 100 | -1.1 | 6.1 | -5.4 | 2 | J |
| 8 | 341 | 22.9 | 45 | C | 6.3 | -50 | 83 | 0.5 | 3.5 | -5.1 | 1 | J |
| 9 | 354 | 19.8 | 85 | J | 5.3 | -43 | 336 | 3.3 | -1.9 | -3.1 | 2 | J |
| 10 | 346 | 17.7 | 39 | C | 6.6 | -37 | 336 | 4.5 | -2.5 | -3.3 | 3 | C |
| 11 | 354 | 14.0 | 41 | J | 7.7 | -21 | 322 | 5.6 | -4.8 | -1.9 | 1 | J |
| 12 | 353 | 14.1 | 44 | J | 7.7 | -30 | 325 | 5.4 | -4.4 | -3.1 | 1 | J |
| 13 | 351 | 13.1 | 41 | J | 7.8 | -33 | 327 | 5.3 | -4.1 | -3.5 | 2 | J |
| 14 | 360 | 11.6 | 63 | J | 6.9 | -12 | 319 | 3.3 | -3.0 | -0.6 | 5 | J |
| 15 | 382 | 8.9 | 42 | J | 8.1 | 58 | 205 | -3.8 | -1.2 | 6.9 | 1 | J |
| 16 | 378 | 8.7 | 52 | J | 7.5 | 59 | 239 | -1.5 | -2.4 | 5.0 | 5 | J |
| 17 | 390 | 6.4 | 85 | J | 6.9 | -20 | 14 | 5.9 | 1.5 | -2.2 | 2 | J |
| 18 | 426 | 5.0 | 25 | J | 8.3 | -20 | 349 | 7.5 | -1.2 | -2.9 | 2 | J |
| 19 | 416 | 5.1 | 26 | J | 9.1 | -17 | 1 | 8.5 | 0.5 | -2.5 | 2 | J |
| 20 | 414 | 5.0 | 29 | J | 8.3 | -18 | 336 | 6.7 | -2.4 | -2.9 | 3 | J |
| 21 | 407 | 5.4 | 32 | J | 7.9 | -16 | 338 | 6.9 | -2.2 | -2.7 | 2 | J |
| 22 | 429 | 6.0 | 68 | J | 7.2 | 7 | 324 | 5.1 | -3.8 | -0.2 | 3 | J |
| 23 | 434 | 5.8 | 98 | J | 7.0 | -20 | 332 | 5.6 | -2.3 | -3.0 | 2 | J |
| 24 | 435 | 5.7 | 112 | J | 6.9 | -30 | 337 | 5.3 | -1.4 | -3.8 | 2 | J |

# 06/16/79 – 06/23/79

JUN. 16, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 429 | 5.6 | 93 | J | 7.1 | -32 | 341 | 5.5 | -1.0 | -3.9 | 2 | J |
| 2 | 439 | 4.9 | 81 | C | 7.1 | -45 | 352 | 4.0 | 0.2 | -4.0 | 3 | C |
| 3 | 447 | 5.6 | 83 | J | 7.7 | -17 | 328 | 6.0 | -3.4 | -2.7 | 2 | J |
| 4 | 446 | 5.3 | 79 | J | 7.9 | -17 | 330 | 6.5 | -3.5 | -2.6 | 1 | J |
| 5 | 434 | 5.0 | 83 | J | 7.5 | -39 | 350 | 5.6 | -0.8 | -4.6 | 2 | J |
| 6 | 437 | 4.9 | 82 | J | 7.5 | -28 | 337 | 6.0 | -2.6 | -3.5 | 1 | J |
| 7 | 453 | 7.4 | 222 | J | 7.5 | -32 | 336 | 5.3 | -2.5 | -3.5 | 3 | J |
| 8 | 466 | 4.7 | 55 | J | 7.2 | -60 | 20 | 3.3 | 0.6 | -6.2 | 1 | J |
| 9 | 441 | 5.6 | 132 | J | 6.9 | -24 | 355 | 5.8 | -0.9 | -2.5 | 3 | J |
| 10 | 428 | 4.9 | 91 | C | 7.6 | -8 | 328 | 6.3 | -4.1 | -0.4 | 1 | J |
| 11 | 439 | 6.2 | 128 | J | 7.4 | -5 | 326 | 5.8 | -3.9 | 0.1 | 2 | J |
| 12 | 463 | 7.5 | 117 | J | 8.8 | 21 | 326 | 6.1 | -3.6 | 3.5 | 4 | J |
| 13 | 475 | 7.7 | 136 | J | 9.2 | -16 | 301 | 3.9 | -6.7 | -1.1 | 5 | J |
| 14 | 463 | 7.3 | 113 | J | 9.1 | -39 | 317 | 4.7 | -5.1 | -4.6 | 4 | J |
| 15 | 461 | 6.6 | 101 | J | 9.2 | -24 | 293 | 3.0 | -7.3 | -2.8 | 4 | J |
| 16 | 476 | 6.6 | 122 | J | 9.1 | -20 | 288 | 2.5 | -7.7 | -2.6 | 3 | J |
| 17 | 471 | 6.0 | 116 | J | 9.3 | -16 | 289 | 2.8 | -7.9 | -2.6 | 3 | J |
| 18 | 478 | 6.2 | 116 | J | 9.1 | -16 | 296 | 3.6 | -7.1 | -3.0 | 3 | J |
| 19 | 462 | 6.0 | 102 | J | 9.3 | -19 | 300 | 4.3 | -6.9 | -4.0 | 2 | J |
| 20 | 445 | 5.8 | 105 | J | 9.5 | -21 | 309 | 5.5 | -6.1 | -4.6 | 1 | J |
| 21 | 434 | 5.9 | 110 | J | 9.6 | -18 | 310 | 5.8 | -6.1 | -4.4 | 1 | J |
| 22 | 434 | 5.6 | 90 | J | 9.7 | -22 | 305 | 5.1 | -6.2 | -5.3 | 1 | J |
| 23 | 415 | 5.2 | 48 | J | 9.7 | -16 | 315 | 6.5 | -5.7 | -4.2 | 1 | J |
| 24 | 407 | 5.0 | 43 | J | 9.6 | -14 | 320 | 7.1 | -5.3 | -3.7 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 402 | 5.1 | 53 | J | 9.6 | -4 | 327 | 7.9 | -4.9 | -1.8 | 1 | J |
| 2 | 392 | 5.7 | 70 | J | 9.6 | -2 | 329 | 8.1 | -4.7 | -1.2 | 2 | J |
| 3 | 408 | 5.5 | 58 | J | 9.5 | -14 | 319 | 6.8 | -5.5 | -3.1 | 2 | J |
| 4 | 391 | 5.9 | 72 | J | 9.5 | 2 | 332 | 8.3 | -4.4 | -0.1 | 1 | J |
| 5 | 386 | 5.8 | 67 | J | 9.3 | 13 | 341 | 8.4 | -3.0 | 1.9 | 2 | J |
| 6 | 404 | 8.0 | 96 | J | 8.8 | 16 | 325 | 6.1 | -4.3 | 2.2 | 4 | J |
| 7 | 385 | 8.7 | 110 | J | 8.7 | 7 | 332 | 7.3 | -3.8 | 1.3 | 2 | J |
| 8 | 393 | 8.3 | 81 | J | 8.3 | -10 | 314 | 4.8 | -5.1 | -0.7 | 4 | J |
| 9 | 393 | 8.0 | 53 | J | 8.2 | 3 | 316 | 5.1 | -4.8 | 1.1 | 4 | J |
| 10 | 406 | 8.7 | 66 | J | 8.0 | 11 | 307 | 3.5 | -4.4 | 1.9 | 5 | J |
| 11 | 390 | 8.2 | 77 | J | 8.6 | -19 | 310 | 5.2 | -6.6 | -1.6 | 1 | J |
| 12 | 388 | 8.7 | 74 | J | 8.9 | -26 | 308 | 4.8 | -6.8 | -2.6 | 2 | J |
| 13 | 378 | 8.4 | 50 | J | 9.6 | -15 | 314 | 6.3 | -6.9 | -1.3 | 2 | J |
| 14 | 378 | 8.1 | 45 | J | 10.4 | -33 | 311 | 5.4 | -7.0 | -4.4 | 3 | J |
| 15 | 397 | 9.5 | 45 | J | 10.9 | -64 | 305 | 2.4 | -4.3 | -8.2 | 5 | J |
| 16 | 395 | 10.0 | 37 | J | 11.5 | -52 | 303 | 3.1 | -5.1 | -7.0 | 7 | J |
| 17 | 377 | 10.2 | 42 | J | 11.5 | -11 | 299 | 5.1 | -9.2 | -2.2 | 4 | J |
| 18 | 375 | 11.2 | 39 | J | 11.1 | -5 | 301 | 5.3 | -8.7 | -1.6 | 4 | J |
| 19 | 368 | 11.9 | 42 | J | 10.6 | 30 | 302 | 4.7 | -8.1 | 4.0 | 3 | J |
| 20 | 369 | 12.1 | 46 | J | 10.2 | 45 | 309 | 4.2 | -6.3 | 5.6 | 4 | J |
| 21 | 359 | 11.6 | 52 | J | 10.7 | 20 | 305 | 5.1 | -7.8 | 1.6 | 5 | J |
| 22 | 356 | 11.0 | 42 | J | 10.6 | 31 | 310 | 5.3 | -7.4 | 3.3 | 4 | J |
| 23 | 352 | 10.7 | 41 | J | 10.4 | 31 | 310 | 5.4 | -7.5 | 3.3 | 3 | J |
| 24 | 362 | 10.6 | 37 | J | 10.1 | 49 | 297 | 2.9 | -7.3 | 5.9 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 355 | 10.1 | 39 | J | 9.8 | 31 | 292 | 3.0 | -8.3 | 3.2 | 3 | J |
| 2 | 349 | 9.2 | 33 | J | 9.8 | 31 | 294 | 3.2 | -7.9 | 3.4 | 3 | J |
| 3 | 358 | 9.8 | 40 | J | 9.0 | 44 | 287 | 1.6 | -5.8 | 4.5 | 5 | J |
| 4 | 356 | 9.3 | 40 | J | 9.4 | 31 | 282 | 1.6 | -7.8 | 3.9 | 3 | J |
| 5 | 357 | 11.9 | 61 | J | 6.7 | -38 | 275 | 0.4 | -4.1 | -3.4 | 4 | J |
| 6 | 350 | 14.0 | 28 | C | 6.0 | 53 | 77 | 0.8 | 3.6 | 4.6 | 1 | J |
| 7 | 340 | 14.6 | 33 | C | 6.1 | 28 | 320 | 3.8 | -3.0 | 2.8 | 2 | C |
| 8 | 347 | 11.4 | 28 | J | 5.1 | 1 | 288 | 1.4 | -4.2 | 0.6 | 2 | J |
| 9 | 352 | 12.1 | 32 | J | 5.3 | 4 | 322 | 3.9 | -2.9 | 0.8 | 2 | J |
| 10 | 350 | 9.6 | 17 | J | 5.7 | -13 | 336 | 5.0 | -2.4 | -0.8 | 1 | J |
| 11 | 350 | 10.3 | 21 | J | 5.4 | 3 | 343 | 5.1 | -1.5 | 0.6 | 1 | J |
| 12 | 354 | 11.0 | 19 | J | 5.6 | 6 | 349 | 5.4 | -0.9 | 0.8 | 1 | J |
| 13 | 351 | 10.3 | 18 | J | 6.2 | 9 | 354 | 5.9 | -0.4 | 1.0 | 2 | J |
| 14 | 348 | 10.9 | 17 | J | 7.3 | 11 | 346 | 6.9 | -1.5 | 1.6 | 1 | J |
| 15 | 349 | 11.5 | 15 | J | 8.2 | 18 | 349 | 7.6 | -1.2 | 2.6 | 1 | J |
| 16 | 348 | 11.4 | 16 | J | 8.5 | 16 | 333 | 7.0 | -3.5 | 2.4 | 2 | J |
| 17 | 344 | 10.7 | 19 | J | 7.5 | 9 | 335 | 6.6 | -3.1 | 1.1 | 1 | J |
| 18 | 337 | 13.7 | 14 | C | 7.1 | 5 | 331 | 6.0 | -3.4 | 0.3 | 1 | C |
| 19 | 347 | 13.1 | 17 | C | 7.0 | -2 | 316 | 5.0 | -4.8 | -0.8 | 1 | C |
| 20 | 343 | 11.6 | 31 | J | 6.2 | 4 | 319 | 4.6 | -4.0 | -0.3 | 1 | J |
| 21 | 344 | 10.1 | 20 | J | 6.1 | 6 | 318 | 4.5 | -4.1 | -0.2 | 1 | J |
| 22 | 335 | 9.8 | 11 | C | 6.1 | 11 | 321 | 4.6 | -3.9 | 0.3 | 1 | J |
| 23 | 333 | 12.2 | 9 | C | 5.9 | 11 | 322 | 4.6 | -3.7 | 0.3 | 0 | J |
| 24 | 335 | 12.4 | 12 | J | 6.3 | 8 | 329 | 5.3 | -3.3 | 0.1 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 341 | 10.9 | 16 | J | 7.4 | 10 | 315 | 5.1 | -5.2 | 0.2 | 1 | J |
| 2 | 341 | 13.7 | 16 | J | 7.4 | 1 | 311 | 4.9 | -5.5 | -0.8 | 1 | J |
| 3 | 337 | 16.0 | 13 | J | 7.5 | 8 | 312 | 5.0 | -5.6 | 0.3 | 0 | J |
| 4 | 344 | 7.1 | 21 | J | 9.0 | -23 | 296 | 3.4 | -6.7 | -3.8 | 3 | J |
| 5 | 360 | 3.0 | 19 | J | 9.4 | -35 | 285 | 2.0 | -7.3 | -5.6 | 1 | J |
| 6 | 344 | 2.6 | 19 | J | 9.7 | -32 | 283 | 1.8 | -8.0 | -4.9 | 1 | C |
| 7 | 346 | 4.0 | 26 | C | 9.7 | -28 | 289 | 2.7 | -8.4 | -3.9 | 1 | C |
| 8 | 321 | 3.9 | 16 | C | 10.0 | -24 | 303 | 5.0 | -8.0 | -3.0 | 1 | C |
| 9 | 304 | 4.1 | 13 | C | 10.1 | -18 | 314 | 6.6 | -7.2 | -2.0 | 1 | C |
| 10 | 314 | 4.0 | 14 | C | 10.1 | -21 | 301 | 4.7 | -8.4 | -2.0 | 2 | C |
| 11 | 335 | 3.2 | 20 | C | 10.2 | -29 | 295 | 3.7 | -8.8 | -3.2 | 1 | C |
| 12 | 322 | 2.9 | 23 | C | 10.1 | -27 | 302 | 4.8 | -8.3 | -2.9 | 1 | C |
| 13 | 325 | 3.4 | 29 | C | 10.1 | -24 | 295 | 3.8 | -8.9 | -2.4 | 1 | C |
| 14 | 317 | 3.5 | 28 | C | 10.1 | -11 | 301 | 5.1 | -8.6 | -0.6 | 1 | C |
| 15 | 319 | 3.8 | 26 | C | 10.1 | -11 | 298 | 4.5 | -8.9 | -1.0 | 1 | C |
| 16 | 324 | 4.1 | 24 | C | 10.0 | -7 | 293 | 3.9 | -9.1 | -0.7 | 1 | C |
| 17 | 311 | 4.4 | 22 | C | 10.1 | -7 | 293 | 3.9 | -9.1 | -1.3 | 1 | C |
| 18 | 306 | 4.8 | 18 | C | 10.1 | 7 | 297 | 4.4 | -8.8 | 0.6 | 2 | C |
| 19 | 309 | 4.6 | 19 | C | 9.8 | 14 | 305 | 5.3 | -7.8 | 1.4 | 2 | C |
| 20 | 292 | 4.8 | 19 | C | 9.7 | 7 | 314 | 6.6 | -6.9 | 0.1 | 1 | C |
| 21 | 311 | 4.6 | 26 | C | 9.8 | -8 | 299 | 4.6 | -8.0 | -3.1 | 1 | C |
| 22 | 316 | 3.9 | 32 | C | 9.9 | -11 | 300 | 4.8 | -7.7 | -3.7 | 2 | C |
| 23 | 314 | 3.2 | 40 | C | 9.8 | -21 | 301 | 4.7 | -6.9 | -5.1 | 0 | C |
| 24 | 304 | 3.2 | 46 | C | 9.7 | -22 | 302 | 4.8 | -6.6 | -5.2 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 283 | 3.3 | 40 | C | 9.8 | -24 | 313 | 6.1 | -5.7 | -5.2 | 0 | C |
| 2 | 290 | 3.3 | 48 | C | 9.9 | -18 | 312 | 6.3 | -6.4 | -4.1 | 1 | C |
| 3 | 292 | 3.0 | 38 | C | 9.9 | -17 | 310 | 5.7 | -6.5 | -3.4 | 2 | C |
| 4 | 292 | 3.2 | 42 | C | 9.8 | -8 | 308 | 6.0 | -7.5 | -1.8 | 1 | C |
| 5 | 292 | 3.9 | 28 | C | 9.8 | -10 | 309 | 6.1 | -7.4 | -1.9 | 0 | C |
| 6 | 296 | 5.0 | 23 | C | 9.7 | -7 | 307 | 5.8 | -7.7 | -0.8 | 1 | C |
| 7 | 304 | 7.7 | 20 | C | 9.2 | -13 | 296 | 3.9 | -8.0 | -1.4 | 2 | C |
| 8 | 307 | 12.4 | 16 | C | 8.3 | -9 | 289 | 2.7 | -7.7 | -0.2 | 2 | C |
| 9 | 302 | 10.2 | 20 | C | 8.5 | -3 | 300 | 4.3 | -7.2 | 0.7 | 1 | C |
| 10 | 297 | 6.4 | 20 | C | 9.6 | -3 | 307 | 5.7 | -7.7 | 1.0 | 0 | C |
| 11 | 290 | 4.7 | 25 | C | 9.8 | -6 | 313 | 6.5 | -7.2 | 0.5 | 1 | C |
| 12 | 287 | 4.8 | 24 | C | 9.8 | -2 | 315 | 6.9 | -6.8 | 1.2 | 0 | C |
| 13 | 314 | 18.8 | 11 | C | 9.1 | -6 | 307 | 5.4 | -7.1 | 0.4 | 1 | C |
| 14 | 317 | 12.1 | 18 | C | 9.4 | 1 | 299 | 4.4 | -7.9 | 1.5 | 2 | C |
| 15 | 323 | 16.9 | 12 | C | 9.7 | 1 | 302 | 5.0 | -7.8 | 1.1 | 3 | C |
| 16 | 338 | 15.8 | 24 | C | 8.2 | 12 | 307 | 3.5 | -4.5 | 1.5 | 6 | C |
| 17 | 345 | 16.4 | 39 | C | 7.1 | 21 | 304 | 3.3 | -4.9 | 2.3 | 3 | C |
| 18 | 347 | 14.6 | 49 | C | 6.9 | 32 | 304 | 3.0 | -4.6 | 3.0 | 3 | C |
| 19 | 363 | 12.1 | 67 | C | 6.5 | -63 | 114 | -1.0 | 2.7 | -4.4 | 3 | C |
| 20 | 371 | 10.9 | 73 | C | 5.8 | -59 | 124 | -1.5 | 3.0 | -4.2 | 2 | C |
| 21 | 379 | 10.0 | 79 | C | 5.6 | -71 | 82 | 0.2 | 2.6 | -4.5 | 2 | C |
| 22 | 377 | 9.9 | 79 | C | 4.8 | -67 | 349 | 1.5 | 0.5 | -3.6 | 3 | C |
| 23 | 374 | 9.5 | 86 | C | 4.8 | -56 | 325 | 1.7 | -0.5 | -3.3 | 3 | C |
| 24 | 375 | 9.2 | 73 | C | 4.9 | 16 | 286 | 1.0 | -3.5 | 0.2 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 363 | 10.5 | 61 | C | 4.9 | 3 | 324 | 2.5 | -1.8 | -0.2 | 4 | C |
| 2 | 340 | 10.1 | 43 | C | 7.2 | -1 | 322 | 4.5 | -3.5 | -0.6 | 3 | C |
| 3 | 344 | 12.5 | 31 | C | 6.7 | 46 | 316 | 3.0 | -3.4 | 4.0 | 2 | C |
| 4 | 343 | 12.3 | 30 | C | 7.3 | -25 | 309 | 3.5 | -4.1 | -2.8 | 4 | C |
| 5 | 343 | 13.1 | 24 | C | 7.6 | -58 | 325 | 3.2 | -2.2 | -6.3 | 1 | C |
| 6 | 346 | 14.7 | 23 | C | 7.1 | -55 | 292 | 1.5 | -4.0 | -5.5 | 1 | C |
| 7 | 344 | 13.1 | 31 | C | 6.9 | -55 | 297 | 1.7 | -3.8 | -4.9 | 2 | C |
| 8 | 352 | 7.4 | 36 | C | 8.5 | -15 | 294 | 3.2 | -7.6 | -1.2 | 1 | C |
| 9 | 360 | 8.2 | 41 | C | 8.1 | -7 | 292 | 2.9 | -7.2 | 0.3 | 1 | C |
| 10 | 354 | 8.6 | 41 | C | 8.7 | 7 | 293 | 3.2 | -7.2 | 2.5 | 2 | C |
| 11 | 362 | 8.4 | 47 | C | 8.8 | -6 | 296 | 3.3 | -6.9 | 0.7 | 4 | C |
| 12 | 364 | 8.6 | 47 | C | 9.4 | -42 | 302 | 3.5 | -6.7 | -4.6 | 3 | C |
| 13 | 378 | 8.7 | 33 | C | 10.0 | -69 | 282 | 0.7 | -5.1 | -8.3 | 2 | C |
| 14 | 374 | 9.2 | 37 | C | 10.3 | -32 | 278 | 1.1 | -9.4 | -3.9 | 0 | C |
| 15 | 356 | 8.5 | 46 | C | 9.7 | -16 | 298 | 4.3 | -8.3 | -1.6 | 2 | C |
| 16 | 359 | 8.9 | 51 | C | 9.4 | -15 | 292 | 3.4 | -8.3 | -1.7 | 2 | C |
| 17 | 366 | 10.3 | 28 | C | 10.0 | -46 | 272 | 0.2 | -7.1 | -7.1 | 0 | C |
| 18 | 363 | 9.7 | 32 | C | 9.5 | -37 | 281 | 1.3 | -6.4 | -5.5 | 4 | C |
| 19 | 377 | 9.5 | 31 | C | 9.3 | -66 | 228 | -2.4 | -1.8 | -8.6 | 1 | C |
| 20 | 375 | 11.7 | 20 | C | 9.2 | -53 | 244 | -2.5 | -3.7 | -8.0 | 1 | C |
| 21 | 379 | 10.2 | 28 | C | 8.6 | -50 | 234 | -3.1 | -3.1 | -7.3 | 1 | C |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  | 8.0 | -22 | 275 | 0.6 | -6.3 | -4.2 | 0 | C |
| 24 | 369 | 11.5 | 34 | C | 8.3 | -23 | 283 | 1.4 | -5.4 | -3.7 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 12.6 | 31 | C | 8.3 | -44 | 235 | -3.4 | -3.7 | -6.5 | 1 | C |
| 2 | 361 | 14.0 | 44 | C |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 363 | 14.5 | 39 | C | 5.8 | -30 | 294 | 1.8 | -4.3 | -2.4 | 2 | C |
| 7 | 368 | 15.5 | 40 | C | 6.2 | -42 | 238 | -2.2 | -3.9 | -3.4 | 2 | C |
| 8 | 364 | 14.1 | 49 | C | 6.6 | -24 | 297 | 2.4 | -5.1 | -1.7 | 3 | C |
| 9 | 366 | 12.5 | 36 | C | 8.8 | -2 | 325 | 6.7 | -4.7 | 0.5 | 3 | C |
| 10 | 410 | 10.6 | 43 | C | 9.1 | 11 | 328 | 7.5 | -4.2 | 2.6 | 1 | C |
| 11 | 368 | 15.6 | 33 | C | 9.4 | -16 | 307 | 2.3 | -3.2 | -0.4 | 8 | C |
| 12 | 363 | 21.5 | 25 | C | 10.1 | -45 | 163 | -6.7 | 0.5 | -7.4 | 1 | C |
| 13 | 364 | 22.9 | 28 | C | 9.4 | -58 | 163 | -4.7 | -0.2 | -8.0 | 1 | C |
| 14 | 363 | 22.3 | 25 | C | 10.4 | -45 | 162 | -7.0 | 0.9 | -7.5 | 1 | C |
| 15 | 363 | 23.7 | 27 | C | 10.3 | -43 | 163 | -7.0 | 1.2 | -7.2 | 1 | C |
| 16 | 369 | 29.9 | 41 | C | 10.7 | -51 | 181 | -6.3 | -0.7 | -7.7 | 4 | C |
| 17 | 383 | 30.8 | 43 | C | 13.6 | -53 | 166 | -7.6 | 1.7 | -10.6 | 3 | C |
| 18 | 386 | 29.6 | 47 | C | 13.7 | -52 | 146 | -6.9 | 5.0 | -10.3 | 3 | C |
| 19 | 394 | 22.3 | 72 | C | 11.1 | -48 | 238 | -3.0 | -4.2 | -6.9 | 6 | C |
| 20 | 421 | 12.4 | 158 | C | 13.1 | 10 | 293 | 4.8 | -11.4 | 0.4 | 4 | C |
| 21 | 443 | 10.7 | 140 | C | 14.6 | 10 | 287 | 4.1 | -13.7 | 0.1 | 3 | C |
| 22 | 495 | 5.5 | 126 | C | 17.6 | -1 | 297 | 7.9 | -15.3 | -3.4 | 1 | C |
| 23 | 474 | 5.8 | 175 | C | 16.9 | 8 | 302 | 8.5 | -13.8 | -0.6 | 4 | C |
| 24 | 453 | 6.3 | 128 | C | 17.2 | 22 | 303 | 8.6 | -14.2 | 3.5 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 460 | 6.4 | 125 | C | 17.8 | 18 | 294 | 6.7 | -15.9 | 2.6 | 2 | C |
| 2 | 444 | 7.2 | 172 | C | 16.2 | 32 | 290 | 4.4 | -12.9 | 6.1 | 6 | C |
| 3 | 464 | 7.5 | 198 | C | 13.4 | -7 | 304 | 7.2 | -10.5 | -2.7 | 2 | C |
| 4 | 481 | 7.1 | 206 | C | 12.2 | 5 | 301 | 4.8 | -8.1 | 0.4 | 7 | C |
| 5 | 495 | 6.6 | 200 | C | 10.2 | -5 | 284 | 2.0 | -8.0 | -0.7 | 5 | C |
| 6 | 497 | 6.8 | 198 | C | 10.4 | -28 | 292 | 3.0 | -7.7 | -4.0 | 4 | C |
| 7 | 477 | 6.8 | 153 | C | 11.2 | -2 | 309 | 5.8 | -7.0 | 0.4 | 6 | C |
| 8 | 471 | 7.1 | 143 | C | 11.2 | 29 | 301 | 4.1 | -6.0 | 5.4 | 6 | C |
| 9 | 451 | 7.5 | 104 | C | 11.9 | -31 | 305 | 5.2 | -8.3 | -4.0 | 5 | C |
| 10 | 446 | 8.0 | 94 | C | 11.9 | 3 | 311 | 6.9 | -7.6 | 2.3 | 5 | C |
| 11 | 444 | 8.0 | 101 | C | 12.3 | -2 | 305 | 6.6 | -9.2 | 1.7 | 3 | C |
| 12 | 433 | 8.0 | 109 | C | 10.7 | 4 | 313 | 6.7 | -6.8 | 2.2 | 3 | C |
| 13 | 452 | 7.2 | 111 | C | 8.7 | 0 | 323 | 4.7 | -3.4 | 0.7 | 5 | C |
| 14 | 498 | 5.1 | 82 | C | 6.3 | 14 | 315 | 2.5 | -2.3 | 1.3 | 5 | C |
| 15 | 496 | 5.2 | 81 | C | 6.1 | -18 | 296 | 2.3 | -4.9 | -1.0 | 2 | C |
| 16 | 481 | 6.0 | 88 | C | 6.4 | -15 | 327 | 4.1 | -2.8 | -1.1 | 1 | C |
| 17 | 503 | 5.8 | 90 | C | 6.9 | -10 | 266 | -0.4 | -5.5 | -0.8 | 3 | C |
| 18 |  |  |  |  | 6.8 | -42 | 298 | 1.4 | -2.5 | -2.8 | 0 | C |
| 19 | 478 | 5.1 | 73 | C | 6.9 | 22 | 325 | 5.0 | -3.8 | 2.1 | 2 | C |
| 20 | 500 | 5.6 | 70 | C | 6.8 | 31 | 276 | 0.5 | -5.4 | 2.3 | 3 | C |
| 21 | 488 | 5.9 | 80 | C | 6.8 | -21 | 309 | 3.0 | -3.3 | -2.4 | 4 | C |
| 22 | 483 | 6.0 | 84 | C | 6.9 | 2 | 332 | 4.9 | -2.6 | -0.3 | 3 | C |
| 23 | 475 | 5.6 | 79 | C | 6.7 | 15 | 354 | 4.8 | -0.8 | 1.1 | 4 | C |
| 24 | 473 | 5.8 | 75 | C | 6.8 | -1 | 332 | 5.2 | -2.7 | -0.6 | 3 | C |

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06/24/79 – 07/01/79

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 476 | 5.0 | 66 | C | 7.1 | 0 | 319 | 4.8 | -4.1 | -0.7 | 2 | C |
| 2 | 484 | 5.0 | 67 | C | 6.7 | 19 | 321 | 4.2 | -3.6 | 1.4 | 3 | C |
| 3 | 498 | 5.6 | 56 | C | 6.5 | -28 | 253 | -1.6 | -4.9 | -3.3 | 2 | C |
| 4 | 498 | 5.8 | 53 | C | 6.7 | -22 | 255 | -1.5 | -5.5 | -2.6 | 2 | C |
| 5 | 491 | 6.0 | 49 | C | 6.3 | -19 | 257 | -1.3 | -5.7 | -1.9 | 1 | C |
| 6 | 478 | 5.7 | 52 | C | 5.8 | -13 | 266 | -0.4 | -5.6 | -0.9 | 1 | C |
| 7 | 477 | 5.6 | 49 | C | 5.6 | -26 | 256 | -1.2 | -4.8 | -1.8 | 1 | C |
| 8 | 465 | 5.0 | 52 | C | 5.4 | -20 | 274 | 0.2 | -3.8 | -0.7 | 3 | C |
| 9 | 463 | 5.1 | 62 | C | 5.5 | 39 | 299 | 1.9 | -2.7 | 3.8 | 2 | C |
| 10 | 450 | 5.0 | 61 | C | 5.3 | -15 | 314 | 2.7 | -2.9 | -0.4 | 3 | C |
| 11 | 438 | 5.3 | 59 | C | 4.7 | -28 | 331 | 3.3 | -2.3 | -1.6 | 2 | C |
| 12 | 432 | 5.4 | 61 | C | 4.9 | -9 | 335 | 4.1 | -2.1 | -0.3 | 2 | C |
| 13 | 440 | 4.9 | 52 | C | 5.5 | 12 | 345 | 5.0 | -1.1 | 1.4 | 1 | C |
| 14 | 435 | 5.2 | 50 | C | 5.7 | 4 | 348 | 5.5 | -1.1 | 0.6 | 0 | C |
| 15 | 435 | 5.0 | 43 | C | 5.8 | 18 | 346 | 5.2 | -1.0 | 1.9 | 0 | C |
| 16 | 436 | 4.9 | 41 | C | 6.0 | 11 | 356 | 5.7 | -0.3 | 1.1 | 1 | C |
| 17 | 435 | 4.6 | 35 | C | 6.1 | 6 | 360 | 6.0 | -0.0 | 0.6 | 1 | C |
| 18 | 435 | 4.7 | 40 | C | 6.0 | -1 | 2 | 6.0 | 0.3 | -0.1 | 0 | C |
| 19 | 429 | 5.1 | 50 | C | 5.6 | -9 | 1 | 5.5 | 0.2 | -0.8 | 0 | C |
| 20 | 422 | 4.9 | 49 | C | 5.4 | -7 | 2 | 5.3 | 0.3 | -0.6 | 0 | C |
| 21 | 435 | 6.6 | 78 | L | 5.3 | -45 | 3 | 3.7 | 0.8 | -3.6 | 1 | C |
| 22 | 445 | 6.2 | 69 | L | 5.3 | -11 | 10 | 5.0 | 1.0 | -0.8 | 1 | C |
| 23 | 455 | 6.8 | 65 | L | 4.4 | -59 | 123 | -1.2 | 2.5 | -3.3 | 1 | J |
| 24 | 422 | 6.6 | 58 | J | 5.2 | -45 | 286 | 0.8 | -2.3 | -3.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 423 | 6.3 | 67 | J | 4.1 | -38 | 4 | 2.3 | 0.4 | -1.7 | 3 | J |
| 2 | 421 | 6.0 | 36 | J | 4.4 | -7 | 2 | 4.0 | 0.2 | -0.5 | 2 | J |
| 3 | 409 | 6.4 | 39 | J | 4.4 | -15 | 351 | 3.5 | -0.5 | -1.0 | 2 | J |
| 4 | 421 | 6.2 | 45 | J | 4.0 | -34 | 358 | 2.7 | -0.0 | -1.8 | 2 | J |
| 5 | 420 | 6.6 | 52 | J | 4.3 | -27 | 346 | 3.1 | -0.8 | -1.6 | 2 | J |
| 6 | 421 | 6.0 | 40 | J | 3.9 | -72 | 7 | 1.0 | -0.1 | -3.2 | 2 | J |
| 7 | 415 | 6.3 | 53 | J | 3.9 | -37 | 340 | 2.4 | -1.1 | -1.8 | 2 | J |
| 8 | 410 | 6.5 | 55 | J | 4.1 | -2 | 13 | 3.9 | 0.9 | -0.3 | 1 | J |
| 9 | 401 | 5.5 | 41 | J | 3.7 | -23 | 327 | 2.3 | -1.7 | -0.8 | 2 | J |
| 10 | 416 | 6.9 | 36 | J | 4.2 | -27 | 264 | -0.3 | -3.6 | -0.9 | 2 | J |
| 11 | 410 | 6.8 | 33 | J | 4.0 | -48 | 242 | -1.1 | -2.7 | -2.1 | 2 | J |
| 12 | 330 | 6.6 | 60 | J | 3.9 | 5 | 339 | 3.2 | -1.1 | 0.6 | 2 | J |
| 13 | 338 | 6.8 | 59 | J | 3.8 | 5 | 9 | 3.0 | 0.5 | 0.1 | 2 | J |
| 14 | 379 | 7.3 | 51 | J | 4.1 | -10 | 351 | 3.5 | -0.7 | -0.5 | 2 | J |
| 15 | 333 | 6.9 | 36 | J | 4.2 | 9 | 319 | 2.5 | -2.0 | 0.8 | 3 | J |
| 16 | 384 | 7.1 | 47 | J | 3.9 | 22 | 2 | 3.1 | 0.2 | 1.2 | 2 | J |
| 17 | 377 | 6.9 | 30 | J | 4.2 | -17 | 318 | 2.5 | -2.3 | -0.9 | 2 | J |
| 18 | 379 | 7.4 | 32 | J | 4.0 | 8 | 314 | 2.3 | -2.4 | 0.4 | 2 | J |
| 19 | 384 | 7.3 | 34 | J | 3.8 | 13 | 307 | 1.7 | -2.3 | 0.5 | 2 | J |
| 20 | 396 | 6.5 | 21 | J | 4.4 | -74 | 220 | -0.9 | -0.2 | -4.2 | 1 | J |
| 21 | 396 | 6.5 | 22 | J | 4.4 | -72 | 255 | -0.3 | -0.6 | -4.2 | 1 | J |
| 22 | 387 | 6.9 | 32 | J | 3.8 | -66 | 309 | 0.7 | -0.4 | -2.8 | 3 | J |
| 23 | 384 | 6.4 | 39 | J | 3.5 | -19 | 299 | 1.4 | -2.3 | -1.5 | 2 | J |
| 24 | 377 | 6.0 | 28 | J | 4.0 | 21 | 315 | 2.4 | -2.6 | 0.9 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 6.4 | 31 | J | 3.7 | 33 | 300 | 1.4 | -2.7 | 1.5 | 2 | J |
| 2 | 379 | 6.1 | 30 | J | 3.5 | 53 | 317 | 1.1 | -1.7 | 2.2 | 2 | J |
| 3 | 370 | 6.0 | 31 | C | 3.8 | 52 | 328 | 1.7 | -1.3 | 2.5 | 2 | C |
| 4 | 373 | 6.2 | 35 | C | 3.7 | 40 | 292 | 0.8 | -2.1 | 1.7 | 2 | C |
| 5 | 371 | 6.3 | 37 | C | 3.4 | -23 | 271 | 0.1 | -2.7 | -1.1 | 2 | C |
| 6 | 365 | 6.6 | 36 | C | 3.2 | 28 | 61 | 1.4 | 2.5 | 1.3 | 1 | C |
| 7 | 367 | 6.8 | 37 | C | 3.2 | -32 | 346 | 1.2 | -0.4 | -0.7 | 3 | C |
| 8 | 378 | 7.9 | 29 | J | 3.8 | -9 | 289 | 1.0 | -2.9 | 0.0 | 2 | J |
| 9 | 374 | 7.7 | 25 | J | 3.8 | 5 | 306 | 2.2 | -2.8 | 0.9 | 1 | J |
| 10 | 381 | 11.8 | 32 | J | 5.1 | -41 | 286 | 0.9 | -3.9 | -2.1 | 3 | J |
| 11 | 388 | 14.4 | 26 | J | 6.4 | -66 | 248 | -0.9 | -3.6 | -4.8 | 2 | J |
| 12 | 393 | 14.5 | 26 | J | 8.2 | -33 | 270 | -0.0 | -7.4 | -2.5 | 3 | J |
| 13 | 392 | 17.2 | 34 | J | 8.7 | 11 | 281 | 1.5 | -7.3 | 3.4 | 3 | J |
| 14 | 397 | 21.4 | 31 | J | 9.6 | -32 | 282 | 1.4 | -7.3 | -2.7 | 6 | J |
| 15 | 406 | 17.1 | 43 | J | 9.9 | -84 | 318 | 0.5 | -1.6 | -6.7 | 8 | J |
| 16 | 417 | 19.6 | 104 | J | 7.1 | -7 | 246 | -0.3 | -0.6 | -0.0 | 7 | J |
| 17 | 417 | 19.7 | 112 | J | 9.0 | -61 | 213 | -3.5 | -2.7 | -7.5 | 2 | J |
| 18 | 406 | 14.2 | 115 | C | 7.3 | -62 | 172 | -2.7 | 0.4 | -5.2 | 4 | C |
| 19 | 405 | 12.1 | 147 | C | 7.0 | -68 | 93 | -0.1 | 2.3 | -4.7 | 4 | C |
| 20 | 408 | 11.1 | 140 | C | 7.2 | -44 | 222 | -3.6 | -1.0 | -3.8 | 5 | C |
| 21 | 432 | 9.9 | 134 | J | 9.2 | -53 | 126 | -3.2 | 5.4 | -6.4 | 2 | J |
| 22 | 445 | 10.1 | 168 | J | 8.9 | -60 | 152 | -3.9 | 3.3 | -7.2 | 1 | J |
| 23 | 397 | 9.9 | 136 | C | 7.6 | -53 | 319 | 2.9 | -1.6 | -5.5 | 4 | C |
| 24 | 383 | 10.5 | 110 | C | 8.9 | -16 | 4 | 8.2 | 1.0 | -2.3 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 398 | 9.9 | 125 | C | 8.3 | -20 | 351 | 6.0 | -0.6 | -2.4 | 5 | C |
| 2 | 410 | 8.2 | 146 | C | 5.6 | -43 | 282 | 0.6 | -2.5 | -3.0 | 4 | C |
| 3 | 411 | 7.0 | 144 | C | 6.9 | -57 | 262 | -0.4 | -2.8 | -5.1 | 3 | C |
| 4 | 410 | 6.5 | 151 | C | 6.1 | -5 | 288 | 1.5 | -4.6 | -0.5 | 3 | C |
| 5 | 421 | 5.5 | 142 | C | 7.8 | 21 | 304 | 3.6 | -5.3 | 2.7 | 3 | C |
| 6 | 418 | 5.2 | 151 | C | 7.0 | -1 | 308 | 4.0 | -5.1 | 0.3 | 2 | C |
| 7 | 438 | 4.8 | 112 | C | 6.8 | 21 | 317 | 4.4 | -3.7 | 2.8 | 2 | C |
| 8 | 442 | 4.1 | 98 | C | 6.6 | -18 | 324 | 4.9 | -3.8 | -1.3 | 1 | C |
| 9 | 442 | 3.4 | 84 | C | 6.1 | -33 | 327 | 4.1 | -3.3 | -2.6 | 1 | C |
| 10 | 439 | 3.9 | 85 | J | 5.9 | 12 | 331 | 4.9 | -2.3 | 1.8 | 2 | J |
| 11 | 434 | 3.6 | 66 | J | 5.9 | 5 | 317 | 4.2 | -3.7 | 1.5 | 1 | J |
| 12 | 424 | 4.0 | 55 | J | 6.1 | -2 | 321 | 4.4 | -3.5 | 0.7 | 2 | J |
| 13 | 453 | 4.1 | 42 | J | 6.7 | -51 | 259 | -0.8 | -5.0 | -3.8 | 2 | J |
| 14 | 438 | 4.1 | 40 | J | 6.3 | -44 | 280 | 0.7 | -5.0 | -3.2 | 2 | J |
| 15 | 417 | 4.2 | 37 | J | 6.3 | -48 | 324 | 3.0 | -2.9 | -3.7 | 3 | J |
| 16 | 422 | 3.8 | 41 | J | 5.7 | -59 | 333 | 2.4 | -1.7 | -4.3 | 2 | J |
| 17 | 422 | 4.0 | 41 | J | 5.1 | -43 | 312 | 2.3 | -2.8 | -3.1 | 2 | J |
| 18 | 416 | 3.9 | 33 | J | 4.7 | -19 | 341 | 3.8 | -1.3 | -1.4 | 2 | J |
| 19 | 411 | 3.6 | 30 | J | 5.1 | -9 | 335 | 4.5 | -2.0 | -0.9 | 1 | J |
| 20 | 404 | 3.4 | 32 | J | 5.4 | -4 | 344 | 5.0 | -1.4 | -0.5 | 1 | J |
| 21 | 401 | 3.1 | 30 | J | 5.1 | -2 | 349 | 4.8 | -0.9 | -0.3 | 1 | J |
| 22 | 406 | 3.6 | 31 | J | 5.6 | 23 | 343 | 4.8 | -1.8 | 1.9 | 1 | J |
| 23 | 402 | 3.7 | 31 | J | 5.9 | 14 | 339 | 5.3 | -2.3 | 1.1 | 1 | J |
| 24 | 394 | 3.6 | 37 | J | 5.6 | 14 | 343 | 5.1 | -1.8 | 1.1 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 391 | 2.8 | 40 | J | 4.8 | 6 | 356 | 4.6 | -0.4 | 0.4 | 1 | J |
| 2 | 389 | 3.7 | 52 | J | 5.7 | 17 | 352 | 5.2 | -0.9 | 1.5 | 1 | J |
| 3 | 386 | 4.0 | 52 | J | 5.6 | 14 | 352 | 5.1 | -0.8 | 1.2 | 2 | J |
| 4 | 387 | 3.9 | 55 | J | 5.8 | 9 | 334 | 5.0 | -2.4 | 0.8 | 2 | J |
| 5 | 386 | 3.7 | 39 | C | 6.0 | 22 | 341 | 5.2 | -1.7 | 2.3 | 1 | C |
| 6 | 379 | 3.7 | 35 | J | 6.3 | 15 | 340 | 5.6 | -1.9 | 1.8 | 1 | J |
| 7 | 376 | 3.7 | 37 | J | 6.5 | 11 | 337 | 5.8 | -2.3 | 1.6 | 1 | J |
| 8 | 419 | 5.2 | 66 | J | 4.9 | -17 | 303 | 1.6 | -2.6 | -0.4 | 4 | J |
| 9 | 383 | 4.7 | 53 | C | 5.9 | 28 | 339 | 4.8 | -1.2 | 3.1 | 1 | C |
| 10 | 384 | 5.2 | 123 | J | 6.4 | 38 | 336 | 4.6 | -1.0 | 4.3 | 0 | J |
| 11 | 374 | 4.4 | 28 | J | 5.9 | 29 | 347 | 4.9 | -0.4 | 3.0 | 1 | J |
| 12 | 376 | 4.6 | 50 | J | 5.2 | 2 | 332 | 4.4 | -2.2 | 0.8 | 1 | J |
| 13 | 374 | 5.1 | 63 | C | 5.5 | 12 | 335 | 4.6 | -1.8 | 1.6 | 2 | C |
| 14 | 375 | 4.4 | 46 | J | 5.5 | 29 | 331 | 4.2 | -1.7 | 3.1 | 1 | J |
| 15 | 372 | 4.1 | 45 | J | 5.4 | 18 | 330 | 4.4 | -2.2 | 2.1 | 1 | J |
| 16 | 373 | 4.2 | 54 | J | 5.4 | 14 | 319 | 3.9 | -3.2 | 1.7 | 1 | J |
| 17 | 359 | 5.3 | 56 | C | 5.5 | -1 | 314 | 3.8 | -3.9 | 0.1 | 1 | C |
| 18 | 360 | 5.0 | 50 | C | 5.6 | -2 | 306 | 3.1 | -4.3 | -0.2 | 1 | C |
| 19 | 360 | 5.4 | 45 | C | 5.7 | -15 | 284 | 1.3 | -5.0 | -1.7 | 2 | C |
| 20 | 354 | 5.5 | 42 | C | 5.8 | -7 | 292 | 2.1 | -5.1 | -1.3 | 1 | C |
| 21 | 349 | 6.2 | 94 | J | 5.5 | 12 | 334 | 4.7 | -2.4 | 0.8 | 1 | J |
| 22 | 348 | 5.6 | 90 | J | 5.4 | 17 | 325 | 4.2 | -3.2 | 1.1 | 1 | J |
| 23 | 342 | 5.6 | 45 | J | 4.9 | -9 | 313 | 3.1 | -3.2 | -1.3 | 2 | J |
| 24 | 336 | 6.2 | 29 | J | 4.3 | -20 | 309 | 2.1 | -2.4 | -1.6 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 331 | 6.7 | 29 | J | 4.6 | 11 | 309 | 2.7 | -3.4 | 0.4 | 1 | J |
| 2 | 324 | 6.7 | 42 | J | 4.9 | 6 | 322 | 3.8 | -3.0 | 0.2 | 1 | J |
| 3 | 322 | 7.0 | 36 | J | 4.8 | 1 | 318 | 3.4 | -3.1 | -0.1 | 1 | J |
| 4 | 325 | 7.6 | 30 | J | 5.0 | 10 | 316 | 3.5 | -3.4 | 0.8 | 0 | J |
| 5 | 311 | 8.0 | 18 | C | 5.6 | 26 | 334 | 4.4 | -2.0 | 2.4 | 1 | C |
| 6 | 311 | 7.5 | 20 | J | 5.7 | 2 | 330 | 4.9 | -2.8 | 0.5 | 0 | J |
| 7 | 310 | 7.7 | 21 | J | 5.6 | -3 | 329 | 4.7 | -2.8 | 0.1 | 1 | J |
| 8 | 311 | 8.5 | 24 | J | 5.5 | -13 | 331 | 4.7 | -2.8 | -0.7 | 0 | J |
| 9 | 310 | 8.5 | 19 | J | 5.5 | -9 | 326 | 4.3 | -3.0 | -0.1 | 1 | J |
| 10 | 312 | 9.9 | 21 | J | 5.0 | -17 | 326 | 3.9 | -2.9 | -0.7 | 1 | J |
| 11 | 318 | 15.8 | 26 | J | 5.2 | -25 | 330 | 4.0 | -2.8 | -1.5 | 1 | J |
| 12 | 328 | 16.9 | 27 | J | 4.3 | -44 | 322 | 2.3 | -2.5 | -2.3 | 1 | J |
| 13 | 315 | 15.4 | 30 | J | 3.8 | -30 | 338 | 2.9 | -1.6 | -1.4 | 1 | J |
| 14 | 316 | 17.4 | 19 | J | 3.0 | -52 | 21 | 1.6 | 0.1 | -2.3 | 1 | J |
| 15 | 315 | 15.8 | 14 | J | 4.2 | -65 | 84 | 0.2 | 0.9 | -3.6 | 2 | J |
| 16 | 316 | 11.1 | 14 | J | 5.5 | -47 | 300 | 1.9 | -3.8 | -3.6 | 0 | J |
| 17 | 314 | 12.1 | 17 | J | 5.5 | -40 | 297 | 1.9 | -3.9 | -3.2 | 1 | J |
| 18 | 313 | 12.6 | 18 | J | 5.5 | -28 | 299 | 2.2 | -4.0 | -2.4 | 2 | J |
| 19 | 319 | 15.3 | 19 | J | 7.3 | -17 | 300 | 3.4 | -5.8 | -2.4 | 1 | J |
| 20 | 315 | 16.1 | 19 | J | 7.8 | -6 | 303 | 4.1 | -6.2 | -1.4 | 2 | J |
| 21 | 310 | 17.5 | 20 | J | 8.1 | -6 | 306 | 4.6 | -6.2 | -1.6 | 2 | J |
| 22 | 311 | 17.5 | 23 | J | 7.9 | -30 | 326 | 5.3 | -3.0 | -4.2 | 3 | J |
| 23 | 313 | 18.3 | 22 | J | 7.9 | -35 | 311 | 4.2 | -4.1 | -5.2 | 2 | J |
| 24 | 306 | 18.7 | 19 | J | 7.8 | -29 | 330 | 5.8 | -2.7 | -4.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 299 | 17.7 | 23 | J | 8.1 | -14 | 7 | 7.3 | 1.1 | -1.7 | 3 | J |
| 2 | 291 | 16.3 | 21 | J | 8.6 | -8 | 16 | 8.1 | 2.4 | -1.0 | 1 | J |
| 3 | 289 | 15.1 | 23 | J | 8.4 | -15 | 16 | 7.6 | 2.3 | -2.0 | 2 | J |
| 4 | 287 | 15.4 | 32 | J | 8.0 | -24 | 5 | 7.2 | 0.6 | -3.2 | 1 | J |
| 5 | 285 | 18.8 | 18 | C | 8.1 | -34 | 8 | 6.4 | 0.7 | -4.5 | 1 | C |
| 6 | 281 | 18.2 | 18 | C |  |  |  |  |  |  |  |  |
| 7 | 280 | 20.1 | 24 | C | 9.0 | -13 | 18 | 8.2 | 2.3 | -2.4 | 1 | C |
| 8 | 283 | 20.0 | 24 | C | 9.4 | -21 | 349 | 8.3 | -2.3 | -2.8 | 2 | C |
| 9 | 284 | 21.2 | 24 | C | 9.1 | -17 | 320 | 6.4 | -5.9 | -1.2 | 2 | C |
| 10 | 292 | 17.3 | 28 | J | 8.8 | -32 | 329 | 5.9 | -4.5 | -3.2 | 3 | J |
| 11 | 306 | 17.5 | 19 | J | 9.3 | 5 | 286 | 2.4 | -8.0 | 3.1 | 3 | J |
| 12 | 308 | 20.8 | 18 | J | 10.4 | 5 | 274 | 0.7 | -9.3 | 3.6 | 3 | J |
| 13 | 300 | 19.5 | 24 | J | 9.8 | 25 | 286 | 2.3 | -6.7 | 5.9 | 3 | J |
| 14 | 296 | 13.7 | 19 | J | 9.9 | 20 | 283 | 2.1 | -7.9 | 5.4 | 2 | J |
| 15 | 296 | 11.5 | 13 | J | 9.8 | 18 | 280 | 1.6 | -8.2 | 4.6 | 2 | J |
| 16 | 300 | 17.3 | 10 | J | 9.2 | -33 | 319 | 5.5 | -5.4 | -4.0 | 3 | J |
| 17 | 308 | 23.2 | 20 | J | 7.7 | 3 | 284 | 1.1 | -4.3 | 0.6 | 6 | J |
| 18 | 310 | 29.2 | 22 | J | 4.0 | 15 | 289 | 0.9 | -2.6 | 0.8 | 3 | J |
| 19 | 303 | 23.7 | 16 | J | 5.0 | 22 | 255 | -1.1 | -4.2 | 1.6 | 2 | J |
| 20 | 306 | 20.7 | 15 | J | 4.6 | 19 | 272 | 0.1 | -4.4 | 1.1 | 1 | J |
| 21 | 306 | 17.1 | 19 | J | 5.0 | 11 | 274 | 0.3 | -4.6 | 0.3 | 2 | J |
| 22 | 309 | 25.0 | 22 | J | 4.3 | 21 | 259 | -0.2 | -1.2 | 0.3 | 4 | J |
| 23 | 316 | 24.8 | 19 | J | 5.8 | 30 | 293 | 1.8 | -4.7 | 2.0 | 3 | J |
| 24 | 306 | 17.1 | 16 | J | 8.2 | 4 | 292 | 2.7 | -6.7 | -0.4 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 306 | 17.9 | 13 | J | 8.2 | -7 | 290 | 2.7 | -7.4 | -1.9 | 1 | J |
| 2 | 310 | 15.4 | 15 | J | 8.5 | 12 | 271 | 0.1 | -7.7 | 1.0 | 3 | J |
| 3 | 306 | 14.9 | 15 | J | 8.6 | 22 | 272 | 0.3 | -8.1 | 2.9 | 1 | J |
| 4 | 289 | 15.7 | 20 | J | 8.4 | -6 | 309 | 4.9 | -6.0 | -0.8 | 3 | J |
| 5 | 291 | 16.0 | 18 | J | 8.3 | -23 | 323 | 6.0 | -4.7 | -2.9 | 1 | J |
| 6 | 288 | 14.9 | 17 | J | 8.7 | -25 | 315 | 5.5 | -5.9 | -3.0 | 1 | J |
| 7 | 287 | 15.4 | 20 | J | 8.7 | -22 | 309 | 4.7 | -6.2 | -2.1 | 3 | J |
| 8 | 293 | 18.8 | 19 | C | 8.2 | -3 | 289 | 2.4 | -7.0 | 1.1 | 3 | C |
| 9 | 312 | 26.2 | 13 | J | 7.8 | -12 | 298 | 3.5 | -6.8 | 0.1 | 1 | J |
| 10 | 307 | 29.0 | 15 | J | 5.4 | -8 | 298 | 2.5 | -4.7 | 0.5 | 1 | J |
| 11 | 317 | 10.0 | 26 | J | 7.8 | -21 | 308 | 4.1 | -5.8 | -1.0 | 3 | J |
| 12 | 329 | 7.5 | 33 | J | 7.5 | -23 | 320 | 5.1 | -5.0 | -1.5 | 2 | J |
| 13 | 324 | 6.7 | 40 | J | 7.7 | -9 | 318 | 5.6 | -5.2 | 0.2 | 1 | J |
| 14 | 324 | 6.4 | 46 | J | 7.9 | 4 | 321 | 6.1 | -4.7 | 1.7 | 1 | J |
| 15 | 327 | 9.3 | 41 | J | 6.6 | -1 | 317 | 4.4 | -4.0 | 0.7 | 3 | J |
| 16 | 339 | 9.8 | 23 | J | 6.5 | 4 | 295 | 2.2 | -4.6 | 1.0 | 4 | J |
| 17 | 336 | 9.4 | 24 | J | 6.2 | 2 | 291 | 1.8 | -4.7 | 0.6 | 4 | J |
| 18 | 330 | 9.0 | 30 | J | 5.8 | 7 | 291 | 2.0 | -5.1 | 0.8 | 2 | J |
| 19 | 333 | 9.4 | 45 | J | 5.1 | 2 | 286 | 1.2 | -4.2 | 0.0 | 3 | J |
| 20 | 335 | 8.9 | 31 | J | 4.5 | -6 | 264 | -0.4 | -4.0 | -0.8 | 2 | J |
| 21 | 326 | 9.9 | 41 | J | 4.9 | -1 | 311 | 2.4 | -2.7 | -0.4 | 3 | J |
| 22 | 323 | 9.8 | 39 | J | 5.3 | -9 | 314 | 3.4 | -3.4 | -1.3 | 2 | J |
| 23 | 317 | 9.4 | 43 | J | 5.0 | -18 | 311 | 3.1 | -3.3 | -2.0 | 1 | J |
| 24 | 323 | 9.9 | 38 | J | 5.1 | -18 | 308 | 3.0 | -3.6 | -2.1 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 321 | 9.9 | 31 | J | 5.5 | -17 | 310 | 3.3 | -3.8 | -2.0 | 1 | C |
| 2 | 320 | 10.1 | 30 | J | 5.3 | -7 | 299 | 2.5 | -4.4 | -1.0 | 1 | J |
| 3 | 322 | 10.2 | 30 | J | 5.0 | -10 | 304 | 2.7 | -4.0 | -1.0 | 1 | J |
| 4 | 318 | 9.4 | 47 | J | 4.5 | -7 | 337 | 3.9 | -1.7 | -0.5 | 1 | J |
| 5 | 316 | 9.2 | 53 | J | 4.6 | -13 | 347 | 4.4 | -1.1 | -1.0 | 1 | J |
| 6 | 318 | 9.1 | 54 | J | 4.5 | -4 | 3 | 4.4 | 0.2 | -0.3 | 1 | J |
| 7 | 315 | 9.4 | 49 | J | 4.8 | -9 | 1 | 4.6 | -0.0 | -0.7 | 1 | J |
| 8 | 314 | 10.6 | 33 | C | 4.9 | -18 | 16 | 4.5 | 0.9 | -1.8 | 0 | C |
| 9 | 312 | 8.3 | 48 | J | 4.8 | 1 | 2 | 4.6 | 0.2 | 0.0 | 1 | J |
| 10 | 312 | 7.6 | 31 | J | 4.9 | 5 | 346 | 4.5 | -1.0 | 0.7 | 1 | J |
| 11 | 310 | 9.2 | 43 | J | 5.4 | 6 | 352 | 5.3 | -0.6 | 0.8 | 0 | J |
| 12 | 311 | 8.9 | 48 | J | 5.0 | 18 | 358 | 4.5 | 0.3 | 1.4 | 1 | J |
| 13 | 310 | 7.9 | 26 | J | 4.7 | 15 | 1 | 4.2 | 0.4 | 1.1 | 1 | J |
| 14 | 330 | 13.7 | 38 | J | 5.2 | 35 | 327 | 3.4 | -1.4 | 3.3 | 1 | J |
| 15 | 331 | 15.1 | 27 | J | 5.3 | 31 | 314 | 3.1 | -2.6 | 3.3 | 1 | J |
| 16 | 333 | 16.3 | 20 | J | 5.4 | 52 | 306 | 1.8 | -1.9 | 4.3 | 2 | J |
| 17 | 330 | 19.0 | 21 | J | 5.5 | 38 | 296 | 1.8 | -3.3 | 3.5 | 2 | J |
| 18 | 323 | 18.4 | 27 | J | 5.6 | -1 | 318 | 4.0 | -3.6 | 0.0 | 2 | J |
| 19 | 327 | 19.8 | 18 | J | 4.7 | 35 | 295 | 1.5 | -3.3 | 2.4 | 2 | J |
| 20 | 322 | 19.5 | 16 | J | 4.7 | 31 | 300 | 2.0 | -3.7 | 2.2 | 1 | J |
| 21 | 315 | 21.1 | 14 | J | 3.6 | 25 | 301 | 1.6 | -2.8 | 1.1 | 1 | J |
| 22 | 313 | 24.8 | 12 | J | 0.8 | 52 | 326 | 0.2 | -0.2 | 0.3 | 1 | J |
| 23 | 312 | 22.9 | 13 | J | 2.1 | 36 | 318 | 1.3 | -1.3 | 1.1 | 1 | J |
| 24 | 308 | 22.8 | 12 | J | 2.1 | 45 | 317 | 1.0 | -1.1 | 1.3 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 300 | 22.0 | 9 | C | 3.6 | 35 | 326 | 2.4 | -1.8 | 1.9 | 1 | C |
| 2 | 296 | 21.5 | 8 | C | | | | | | | | |
| 3 | 294 | 19.0 | 11 | C | 4.5 | 55 | 312 | 1.6 | -1.9 | 3.5 | 1 | C |
| 4 | 294 | 20.3 | 10 | C | 4.6 | 69 | 307 | 1.0 | -1.2 | 4.3 | 1 | C |
| 5 | 297 | 21.3 | 10 | C | 4.5 | 71 | 319 | 1.1 | -0.7 | 4.2 | 1 | C |
| 6 | 295 | 21.1 | 10 | C | 4.5 | 71 | 311 | 0.9 | -0.6 | 4.2 | 1 | C |
| 7 | 299 | 25.0 | 13 | C | | | | | | | | |
| 8 | 321 | 42.5 | 20 | C | 6.7 | 36 | 136 | -3.7 | 4.3 | 2.9 | 2 | C |
| 9 | 341 | 56.4 | 27 | C | 6.5 | -70 | 143 | -1.8 | -0.3 | -6.2 | 1 | C |
| 10 | 361 | 60.1 | 32 | C | 5.9 | -23 | 92 | -0.0 | 0.9 | -0.7 | 6 | C |
| 11 | 398 | 15.1 | 201 | C | 22.6 | 11 | 102 | -3.6 | 17.6 | -2.0 | 12 | C |
| 12 | 414 | 9.0 | 214 | C | 21.6 | 4 | 103 | -4.3 | 17.9 | -4.1 | 9 | C |
| 13 | 442 | 6.8 | 217 | C | 16.3 | -22 | 109 | -4.4 | 10.8 | -8.9 | 6 | C |
| 14 | 477 | 5.8 | 198 | C | 13.4 | -29 | 113 | -3.7 | 7.0 | -7.4 | 6 | C |
| 15 | 477 | 4.1 | 146 | C | 10.5 | -10 | 153 | -8.8 | 3.9 | -2.7 | 3 | C |
| 16 | 501 | 5.0 | 228 | C | 11.5 | -8 | 129 | -6.7 | 8.1 | -2.8 | 3 | C |
| 17 | 486 | 4.7 | 194 | C | 10.3 | -11 | 145 | -7.6 | 5.2 | -2.3 | 3 | C |
| 18 | 492 | 5.6 | 244 | C | 9.4 | -17 | 99 | -1.3 | 7.9 | -2.8 | 3 | C |
| 19 | 489 | 5.0 | 228 | C | 8.1 | -9 | 106 | -1.7 | 6.0 | -0.9 | 5 | C |
| 20 | 493 | 4.6 | 228 | C | 6.5 | -16 | 87 | 0.3 | 5.5 | -1.2 | 3 | C |
| 21 | 482 | 4.2 | 178 | C | 7.8 | -15 | 58 | 1.8 | 3.0 | -0.6 | 7 | C |
| 22 | 472 | 4.2 | 170 | C | 6.4 | -20 | 193 | -5.3 | -1.0 | -2.1 | 3 | C |
| 23 | 471 | 4.2 | 161 | C | 7.5 | -17 | 136 | -4.7 | 4.8 | -1.4 | 3 | C |
| 24 | 465 | 3.7 | 123 | C | 9.3 | 8 | 137 | -6.3 | 5.7 | 2.0 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 467 | 3.3 | 144 | C | 7.9 | -11 | 152 | -4.9 | 2.7 | -0.8 | 5 | C |
| 2 | 511 | 2.0 | 161 | C | 8.2 | -46 | 129 | -3.5 | 4.7 | -5.5 | 2 | C |
| 3 | 510 | 2.0 | 145 | C | 7.2 | -34 | 99 | -0.9 | 5.6 | -3.6 | 2 | C |
| 4 | 546 | 2.1 | 100 | C | 7.2 | -32 | 77 | 1.3 | 5.8 | -3.9 | 1 | C |
| 5 | 530 | 3.0 | 110 | C | 7.3 | -46 | 88 | 0.2 | 4.6 | -5.6 | 1 | C |
| 6 | 472 | 3.1 | 135 | C | 8.8 | -22 | 118 | -3.5 | 6.1 | -3.9 | 3 | C |
| 7 | 468 | 2.8 | 120 | C | 9.5 | 18 | 132 | -5.7 | 6.7 | 1.6 | 3 | C |
| 8 | 446 | 1.5 | 97 | C | 11.2 | 0 | 115 | -4.2 | 8.9 | -2.1 | 5 | C |
| 9 | 492 | 0.6 | 98 | C | 11.8 | 15 | 119 | -5.5 | 10.4 | 0.2 | 1 | C |
| 10 | 519 | 0.2 | 83 | C | 11.5 | 17 | 116 | -4.8 | 10.4 | 0.3 | 1 | C |
| 11 | 488 | 0.2 | 127 | C | 11.4 | 5 | 121 | -5.8 | 9.4 | -1.9 | 2 | C |
| 12 | 484 | 0.1 | 100 | C | 11.4 | 8 | 126 | -6.7 | 9.1 | -1.2 | 1 | C |
| 13 | 474 | 0.2 | 103 | C | 11.3 | 2 | 120 | -5.6 | 9.4 | -2.4 | 1 | C |
| 14 | 480 | 0.1 | 66 | C | | | | | | | | |
| 15 | 482 | 0.1 | 104 | C | 11.4 | 0 | 124 | -6.3 | 9.1 | -2.0 | 2 | C |
| 16 | 459 | 0.1 | 291 | C | | | | | | | | |
| 17 | 367 | 0.2 | 108 | C | 11.5 | 1 | 124 | -6.4 | 9.4 | -0.7 | 1 | C |
| 18 | 402 | 0.2 | 172 | C | 11.4 | -4 | 122 | -6.0 | 9.4 | -1.2 | 1 | C |
| 19 | 377 | 0.5 | 102 | C | 11.2 | 2 | 115 | -4.7 | 10.0 | 0.5 | 1 | C |
| 20 | 344 | 1.0 | 97 | C | 11.5 | -4 | 118 | -5.3 | 10.2 | -0.2 | 0 | C |
| 21 | 366 | 0.9 | 132 | C | 11.7 | 2 | 119 | -5.6 | 10.0 | 1.3 | 2 | C |
| 22 | 367 | 1.4 | 203 | C | 11.1 | 11 | 118 | -5.0 | 9.0 | 3.2 | 2 | C |
| 23 | 363 | 3.3 | 97 | C | 10.5 | 21 | 114 | -3.9 | 8.4 | 4.7 | 2 | C |
| 24 | 346 | 2.7 | 122 | C | 11.2 | 5 | 126 | -6.5 | 8.7 | 2.0 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 319 | 2.5 | 68 | C | 11.4 | 3 | 130 | -7.3 | 8.6 | 1.4 | 1 | C |
| 2 | 336 | 2.8 | 73 | C | 12.2 | 2 | 130 | -7.7 | 9.2 | 1.0 | 1 | C |
| 3 | 324 | 2.7 | 48 | C | 12.3 | 9 | 137 | -8.8 | 8.2 | 2.1 | 1 | C |
| 4 | 330 | 3.1 | 44 | C | 12.6 | 18 | 135 | -8.5 | 8.5 | 3.5 | 1 | C |
| 5 | 345 | 3.4 | 34 | C | 12.8 | 17 | 124 | -6.8 | 10.2 | 2.8 | 2 | C |
| 6 | 370 | 3.4 | 16 | C | 12.7 | 6 | 119 | -6.1 | 10.9 | -0.3 | 2 | C |
| 7 | 363 | 3.3 | 16 | C | 12.9 | 21 | 134 | -8.3 | 9.4 | 3.0 | 1 | C |
| 8 | 405 | 3.0 | 109 | C | 11.9 | 36 | 136 | -6.4 | 7.4 | 4.8 | 5 | C |
| 9 | 479 | 3.1 | 308 | C | 9.4 | -11 | 125 | -4.6 | 5.9 | -3.3 | 4 | C |
| 10 | 457 | 2.9 | 297 | C | 9.8 | 2 | 121 | -4.5 | 7.1 | -1.8 | 4 | C |
| 11 | 484 | 2.5 | 225 | C | 10.6 | 2 | 118 | -4.8 | 8.7 | -2.4 | 2 | C |
| 12 | 493 | 2.7 | 218 | C | 9.7 | -6 | 118 | -3.8 | 6.6 | -3.1 | 5 | C |
| 13 | 494 | 2.9 | 240 | C | 9.1 | -6 | 130 | -5.7 | 6.1 | -2.9 | 1 | C |
| 14 | 488 | 2.6 | 235 | C | 9.7 | -2 | 130 | -6.1 | 6.9 | -2.2 | 2 | C |
| 15 | 479 | 2.3 | 207 | C | 10.6 | -3 | 123 | -5.6 | 8.1 | -2.4 | 2 | C |
| 16 | 459 | 2.2 | 211 | C | 11.2 | 13 | 132 | -7.1 | 8.3 | 1.0 | 2 | C |
| 17 | 486 | 2.3 | 199 | C | 10.9 | 10 | 130 | -6.8 | 8.2 | 1.0 | 1 | C |
| 18 | 525 | 3.0 | 217 | C | 9.8 | 25 | 138 | -5.6 | 5.2 | 3.3 | 5 | C |
| 19 | 507 | 3.1 | 170 | C | 9.5 | 7 | 127 | -5.1 | 6.7 | 1.1 | 3 | C |
| 20 | 482 | 4.5 | 157 | C | 9.2 | -10 | 131 | -5.6 | 6.6 | -1.1 | 2 | C |
| 21 | 476 | 4.7 | 118 | C | 9.1 | 6 | 159 | -7.8 | 2.9 | 1.2 | 3 | C |
| 22 | 481 | 4.8 | 121 | C | 8.8 | 2 | 145 | -6.7 | 4.6 | 0.8 | 3 | C |
| 23 | 514 | 5.0 | 116 | C | 8.9 | 31 | 172 | -7.3 | 0.5 | 4.6 | 2 | C |
| 24 | 504 | 4.0 | 100 | C | 8.8 | 25 | 181 | -7.8 | -0.5 | 3.6 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 533 | 4.8 | 122 | C | 8.1 | 55 | 176 | -4.3 | -0.2 | 6.1 | 2 | C |
| 2 | 534 | 4.9 | 125 | C | 7.8 | 69 | 167 | -2.6 | 0.3 | 7.0 | 2 | C |
| 3 | 516 | 4.5 | 124 | C | 7.4 | 46 | 148 | -4.0 | 2.4 | 4.9 | 3 | C |
| 4 | 508 | 4.6 | 114 | C | 7.3 | 24 | 148 | -4.7 | 3.1 | 2.3 | 4 | C |
| 5 | 521 | 4.5 | 117 | C | 6.6 | 24 | 140 | -3.9 | 3.4 | 1.9 | 3 | C |
| 6 | 499 | 4.5 | 100 | C | 6.6 | 12 | 177 | -5.1 | 0.4 | 1.1 | 4 | C |
| 7 | 518 | 4.4 | 126 | C | 6.4 | -10 | 128 | -3.0 | 3.6 | -1.6 | 3 | C |
| 8 | 528 | 3.9 | 114 | C | 6.1 | 45 | 160 | -3.2 | 2.0 | 3.1 | 3 | C |
| 9 | 504 | 4.4 | 106 | C | 6.3 | 4 | 142 | -4.0 | 3.1 | -0.5 | 3 | C |
| 10 | 491 | 4.2 | 97 | C | 6.2 | -2 | 161 | -4.7 | 1.5 | -0.6 | 3 | C |
| 11 | 498 | 4.1 | 107 | C | 5.8 | -9 | 161 | -4.2 | 1.2 | -1.1 | 3 | C |
| 12 | 522 | 3.3 | 95 | C | 5.6 | 9 | 145 | -3.8 | 2.7 | -0.2 | 2 | C |
| 13 | 490 | 3.6 | 84 | C | 5.6 | -28 | 171 | -4.1 | -0.0 | -2.3 | 2 | C |
| 14 | 490 | 3.7 | 82 | C | 5.7 | -44 | 161 | -3.5 | 0.2 | -3.8 | 1 | C |
| 15 | 477 | 3.7 | 59 | C | 5.7 | -14 | 161 | -5.0 | 1.4 | -1.7 | 1 | C |
| 16 | 480 | 3.7 | 63 | C | 5.7 | 0 | 157 | -5.0 | 2.1 | -0.4 | 1 | C |
| 17 | 478 | 3.7 | 66 | C | 5.8 | -2 | 152 | -4.7 | 2.5 | -0.5 | 2 | C |
| 18 | 479 | 3.9 | 68 | C | 5.9 | 1 | 133 | -3.5 | 3.8 | -0.1 | 2 | C |
| 19 | 508 | 4.0 | 63 | C | 5.9 | -9 | 124 | -3.2 | 4.7 | -0.9 | 0 | C |
| 20 | 496 | 3.0 | 62 | C | 6.1 | -13 | 164 | -5.3 | 1.5 | -1.2 | 2 | C |
| 21 | 610 | 8.9 | 460 | C | 12.6 | -12 | 141 | -7.8 | 6.4 | -1.6 | 7 | C |
| 22 | 648 | 12.4 | 429 | C | 12.1 | 27 | 137 | -5.9 | 5.0 | 4.6 | 7 | C |
| 23 | 616 | 10.6 | 365 | C | 14.3 | 5 | 131 | -8.4 | 9.4 | 2.2 | 4 | C |
| 24 | 616 | 9.4 | 353 | C | 13.7 | 16 | 137 | -8.7 | 7.7 | 4.2 | 5 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 621 | 10.5 | 288 | C | 11.9 | -32 | 134 | -6.5 | 7.1 | -5.4 | 4 | C |
| 2 | 617 | 11.3 | 223 | C | 11.0 | -2 | 143 | -8.3 | 6.2 | -0.1 | 3 | C |
| 3 | 602 | 10.4 | 163 | C | 10.8 | 14 | 125 | -5.9 | 8.4 | 2.6 | 2 | C |
| 4 | 596 | 8.7 | 124 | C | 11.6 | 8 | 120 | -5.5 | 9.6 | 1.1 | 3 | C |
| 5 | 585 | 7.2 | 149 | C | 12.8 | 3 | 118 | -5.7 | 10.8 | -0.4 | 4 | C |
| 6 | 577 | 8.5 | 145 | C | 12.1 | 9 | 139 | -8.8 | 7.8 | 0.6 | 2 | C |
| 7 | 577 | 8.4 | 146 | C | 11.4 | 20 | 153 | -9.4 | 5.5 | 2.8 | 1 | C |
| 8 | 569 | 8.1 | 119 | C | 11.5 | 10 | 150 | -9.5 | 5.7 | 0.5 | 3 | C |
| 9 | 543 | 6.2 | 113 | C | 10.8 | 6 | 130 | -6.6 | 8.0 | -1.2 | 3 | C |
| 10 | 558 | 5.3 | 116 | C | 10.6 | 11 | 124 | -5.8 | 8.6 | -0.8 | 1 | C |
| 11 | 556 | 4.8 | 99 | C | 10.2 | 14 | 123 | -5.4 | 8.6 | -0.3 | 1 | C |
| 12 | 538 | 5.0 | 93 | C | 9.9 | 14 | 142 | -7.6 | 6.3 | 0.4 | 1 | C |
| 13 | 539 | 4.4 | 104 | C | 9.7 | 18 | 142 | -6.5 | 5.7 | 1.0 | 4 | C |
| 14 | 532 | 5.2 | 61 | C | 10.3 | -70 | 73 | 1.1 | 0.6 | -10.2 | 1 | C |
| 15 | 511 | 6.2 | 48 | C | 9.3 | -64 | 51 | 2.5 | 1.0 | -8.8 | 1 | C |
| 16 | 502 | 11.5 | 38 | C | 7.1 | -64 | 52 | 1.9 | 1.2 | -6.6 | 1 | C |
| 17 | 497 | 15.0 | 37 | C | 5.5 | -68 | 74 | 0.6 | 1.3 | -5.1 | 1 | C |
| 18 | 497 | 16.8 | 42 | C | 3.9 | -44 | 57 | 0.9 | 1.3 | -1.7 | 3 | C |
| 19 | 495 | 12.7 | 56 | C | 4.3 | -49 | 128 | -0.5 | 0.6 | -0.9 | 4 | C |
| 20 | 505 | 7.2 | 71 | C | 7.6 | 19 | 101 | -0.9 | 4.4 | 1.7 | 6 | C |
| 21 | 506 | 19.1 | 31 | J | 6.4 | 20 | 181 | -5.9 | -0.3 | 2.1 | 1 | J |
| 22 | 495 | 13.1 | 34 | J | 6.8 | 45 | 213 | -3.7 | -2.8 | 4.2 | 3 | J |
| 23 | 490 | 10.4 | 36 | J | 5.9 | 42 | 243 | -2.0 | -4.3 | 3.5 | 1 | J |
| 24 | 476 | 13.6 | 34 | J | 5.0 | 41 | 257 | -0.8 | -3.9 | 2.9 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 480 | 9.5 | 34 | J | 5.0 | 36 | 238 | -2.1 | -3.5 | 2.6 | 1 | J |
| 2 | 471 | 11.6 | 48 | J | 4.4 | 6 | 213 | -3.3 | -2.2 | 0.3 | 2 | J |
| 3 | 470 | 10.0 | 37 | J | 4.1 | -8 | 227 | -2.4 | -2.6 | -0.5 | 2 | J |
| 4 | 465 | 5.8 | 46 | C | 4.7 | 33 | 169 | -2.2 | 0.5 | 1.4 | 4 | C |
| 5 | 471 | 2.8 | 66 | C | 5.4 | 2 | 120 | -2.7 | 4.5 | -0.3 | 1 | C |
| 6 | 463 | 2.8 | 45 | C | 5.5 | 23 | 137 | -3.7 | 3.7 | 1.5 | 1 | C |
| 7 | 462 | 4.9 | 46 | C | 5.1 | 3 | 132 | -3.0 | 3.3 | -0.5 | 2 | C |
| 8 | 497 | 4.4 | 47 | C | 5.5 | -12 | 119 | -2.6 | 4.2 | -2.3 | 1 | C |
| 9 | 462 | 6.9 | 37 | J | 5.3 | -11 | 129 | -3.2 | 3.5 | -2.1 | 1 | J |
| 10 | 461 | 7.3 | 35 | J | 5.5 | -10 | 126 | -3.0 | 3.7 | -2.2 | 2 | J |
| 11 | 455 | 6.7 | 40 | J | 5.7 | 3 | 135 | -3.8 | 3.7 | -1.0 | 1 | J |
| 12 | 450 | 7.5 | 39 | J | 5.1 | 9 | 150 | -4.1 | 2.5 | -0.1 | 2 | J |
| 13 | 442 | 7.9 | 40 | J | 5.2 | 11 | 148 | -3.9 | 2.6 | 0.1 | 2 | J |
| 14 | 447 | 8.2 | 32 | J | 5.0 | -16 | 132 | -2.6 | 2.5 | -1.9 | 3 | J |
| 15 | 445 | 11.2 | 41 | J | 4.2 | -68 | 125 | -0.8 | 0.2 | -3.5 | 2 | J |
| 16 | 445 | 10.4 | 40 | J | 4.4 | -45 | 298 | 1.1 | -2.4 | -1.8 | 3 | J |
| 17 | 435 | 10.4 | 42 | J | 3.3 | -9 | 111 | -1.0 | 2.5 | -0.8 | 2 | J |
| 18 | 446 | 11.1 | 35 | J | 2.9 | -44 | 213 | -1.1 | -0.8 | -1.2 | 2 | J |
| 19 | 445 | 8.6 | 33 | J | 3.3 | 1 | 255 | -0.6 | -2.3 | 0.1 | 2 | J |
| 20 | 434 | 9.4 | 30 | J | 2.5 | 10 | 258 | -0.3 | -1.6 | 0.2 | 2 | J |
| 21 | 437 | 9.2 | 33 | J | 2.7 | -14 | 252 | -0.7 | -2.2 | -0.7 | 1 | J |
| 22 | 432 | 8.5 | 24 | J | 3.1 | 13 | 255 | -0.7 | -2.8 | 0.4 | 1 | J |
| 23 | 426 | 9.9 | 24 | J | 2.5 | 39 | 250 | -0.6 | -1.9 | 1.3 | 1 | J |
| 24 | 427 | 10.0 | 26 | J | 2.7 | 37 | 259 | -0.4 | -2.2 | 1.4 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 420 | 11.4 | 39 | J | 2.1 | 39 | 267 | -0.1 | -1.6 | 1.2 | 1 | J |
| 2 | 416 | 9.3 | 28 | J | 2.6 | 47 | 266 | -0.1 | -1.8 | 1.8 | 1 | J |
| 3 | 406 | 9.7 | 18 | J | 2.7 | -20 | 205 | -2.3 | -1.1 | -0.9 | 0 | J |
| 4 | 405 | 8.9 | 17 | J | 3.2 | -8 | 196 | -3.0 | -0.9 | -0.4 | 1 | J |
| 5 | 391 | 6.1 | 13 | L | 3.2 | -17 | 161 | -2.9 | 0.9 | -1.0 | 1 | J |
| 6 | 390 | 7.9 | 10 | C | 3.3 | -17 | 190 | -3.0 | -0.7 | -0.8 | 1 | J |
| 7 | 409 | 9.3 | 26 | J | 3.4 | -5 | 198 | -3.1 | -1.1 | -0.1 | 1 | J |
| 8 | 382 | 6.4 | 11 | C | 3.2 | -15 | 182 | -3.1 | -0.3 | -0.8 | 0 | C |
| 9 | 389 | 5.0 | 19 | J | 3.5 | -9 | 208 | -3.1 | -1.7 | -0.0 | 0 | J |
| 10 | 388 | 4.5 | 22 | J | 3.7 | -5 | 206 | -3.2 | -1.6 | 0.2 | 1 | J |
| 11 | 382 | 4.0 | 28 | J | 3.7 | -16 | 201 | -3.3 | -1.5 | -0.5 | 0 | J |
| 12 | 391 | 4.8 | 22 | J | 4.2 | -62 | 156 | -1.5 | -0.4 | -3.0 | 2 | J |
| 13 | 384 | 5.1 | 27 | J | 4.2 | -54 | 179 | -2.4 | -1.0 | -3.2 | 1 | J |
| 14 | 382 | 4.9 | 27 | J | 4.2 | -48 | 185 | -2.7 | -1.1 | -2.8 | 1 | J |
| 15 | 376 | 3.9 | 23 | J | 4.0 | -39 | 192 | -3.0 | -1.2 | -2.2 | 1 | J |
| 16 | 385 | 5.5 | 31 | J | 3.8 | -51 | 172 | -2.2 | -0.3 | -2.8 | 1 | J |
| 17 | 376 | 5.1 | 22 | J | 3.8 | -45 | 174 | -2.7 | -0.1 | -2.7 | 1 | J |
| 18 | 368 | 3.0 | 18 | J | 3.9 | -26 | 183 | -3.5 | -0.3 | -1.7 | 0 | J |
| 19 | 375 | 4.0 | 20 | J | 3.9 | -34 | 172 | -3.2 | 0.4 | -2.2 | 0 | J |
| 20 | 366 | 3.2 | 19 | J | 4.0 | -10 | 182 | -3.8 | -0.1 | -0.7 | 1 | J |
| 21 | 367 | 2.8 | 26 | J | 4.5 | 11 | 180 | -4.2 | -0.0 | 0.8 | 1 | J |
| 22 | 370 | 4.0 | 20 | J | 4.7 | 30 | 165 | -3.9 | 0.9 | 2.4 | 1 | J |
| 23 | 363 | 2.9 | 24 | J | 4.4 | 11 | 160 | -3.9 | 1.3 | 0.9 | 1 | J |
| 24 | 369 | 4.0 | 24 | J | 4.7 | -5 | 148 | -3.7 | 2.3 | -0.2 | 1 | J |

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### JUL. 10, 1979

191

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 366 | 4.0 | 30 | J | 5.1 | -1 | 149 | -4.1 | 2.5 | 0.1 | 2 | J |
| 2 | 360 | 3.9 | 44 | J | 4.8 | -4 | 161 | -4.2 | 1.4 | -0.3 | 2 | J |
| 3 | 365 | 4.6 | 28 | J | 4.2 | -14 | 156 | -3.0 | 1.3 | -0.8 | 2 | J |
| 4 | 355 | 6.0 | 19 | J | 4.0 | 2 | 133 | -2.7 | 2.9 | -0.1 | 1 | J |
| 5 | 359 | 5.8 | 15 | J | 4.1 | 7 | 125 | -2.3 | 3.3 | 0.1 | 1 | J |
| 6 | 359 | 5.4 | 15 | J | 4.1 | 32 | 122 | -1.8 | 3.3 | 1.6 | 0 | J |
| 7 | 360 | 5.4 | 17 | J | 4.1 | 23 | 124 | -2.1 | 3.4 | 0.9 | 0 | J |
| 8 | 352 | 6.3 | 18 | J | 4.0 | 11 | 122 | -2.1 | 3.4 | -0.1 | 0 | J |
| 9 | 350 | 6.4 | 23 | J | 4.2 | 13 | 120 | -2.0 | 3.6 | -0.2 | 1 | J |
| 10 | 340 | 7.8 | 17 | C | 4.3 | 10 | 117 | -1.9 | 3.7 | -0.5 | 0 | C |
| 11 | 340 | 7.5 | 18 | C | 4.5 | 8 | 115 | -1.9 | 4.0 | -0.8 | 0 | C |
| 12 | 344 | 7.6 | 17 | C | 4.8 | 1 | 108 | -1.4 | 4.2 | -1.4 | 1 | C |
| 13 | 350 | 9.1 | 18 | C | 4.4 | -3 | 95 | -0.4 | 4.0 | -1.6 | 1 | C |
| 14 | 371 | 9.8 | 18 | J | 4.7 | 8 | 55 | 2.6 | 3.8 | -0.5 | 1 | J |
| 15 | 354 | 7.3 | 19 | J | 5.1 | -14 | 106 | -1.3 | 3.9 | -2.2 | 2 | J |
| 16 | 354 | 7.4 | 16 | J | 5.1 | -21 | 115 | -2.0 | 3.8 | -2.6 | 1 | J |
| 17 | 345 | 6.6 | 17 | J | 4.9 | -23 | 135 | -3.1 | 2.8 | -2.3 | 1 | J |
| 18 | 340 | 6.4 | 17 | J | 4.8 | -11 | 141 | -3.2 | 2.5 | -1.0 | 2 | J |
| 19 | 341 | 6.4 | 20 | J | 4.6 | 1 | 164 | -3.5 | 1.0 | 0.0 | 3 | J |
| 20 | 358 | 6.9 | 32 | J | 5.0 | -47 | 121 | -1.8 | 3.0 | -3.6 | 1 | J |
| 21 | 346 | 6.2 | 21 | J | 4.7 | -51 | 199 | -2.0 | -0.6 | -2.7 | 3 | J |
| 22 | 345 | 6.0 | 22 | J | 4.6 | -3 | 116 | -1.7 | 3.4 | 0.0 | 3 | J |
| 23 | 343 | 6.2 | 23 | J | 4.2 | -13 | 119 | -1.8 | 3.4 | -0.6 | 2 | J |
| 24 | 353 | 6.1 | 25 | J | 4.0 | -3 | 92 | -0.1 | 2.9 | 0.1 | 3 | J |

### JUL. 11, 1979

192

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 334 | 6.3 | 23 | J | 5.0 | -5 | 140 | -3.3 | 2.8 | -0.2 | 3 | J |
| 325 | 6.8 | 27 | J | 5.2 | 23 | 158 | -4.3 | 1.7 | 2.0 | 1 | J |
| 334 | 6.9 | 30 | J | 5.5 | 40 | 141 | -3.0 | 2.5 | 3.2 | 2 | J |
| 327 | 6.9 | 38 | J | 5.5 | 7 | 140 | -3.9 | 3.3 | 0.4 | 2 | J |
| 324 | 7.6 | 30 | C | 5.3 | -1 | 132 | -3.1 | 3.4 | -0.5 | 2 | C |
| 342 | 7.8 | 25 | J | 5.4 | 76 | 117 | -0.5 | 1.8 | 4.3 | 3 | J |
| 347 | 7.1 | 20 | J | 6.5 | -23 | 78 | 1.1 | 4.5 | -3.3 | 3 | J |
| 357 | 7.9 | 20 | J | 6.3 | -21 | 79 | 0.7 | 3.0 | -2.3 | 5 | J |
| 348 | 8.6 | 29 | J | 5.2 | -28 | 78 | 0.8 | 3.1 | -3.2 | 3 | J |
| 325 | 9.4 | 26 | J | 5.2 | 12 | 143 | -3.8 | 3.1 | 0.0 | 2 | J |
| 320 | 8.2 | 30 | J | 5.5 | 19 | 169 | -4.7 | 1.4 | 1.2 | 2 | J |
| 322 | 7.5 | 30 | J | 5.5 | 27 | 154 | -4.2 | 2.8 | 1.5 | 1 | J |
| 315 | 7.4 | 39 | J | 5.4 | 20 | 155 | -4.6 | 2.6 | 1.0 | 1 | J |
| 307 | 7.2 | 33 | J | 5.5 | 23 | 176 | -4.9 | 1.0 | 1.9 | 1 | J |
| 311 | 7.0 | 27 | J | 5.6 | 29 | 167 | -4.5 | 1.7 | 2.2 | 1 | J |
| 317 | 7.4 | 33 | J | 5.4 | 37 | 163 | -3.9 | 1.8 | 2.7 | 2 | J |
| 317 | 6.9 | 27 | J | 5.2 | 44 | 158 | -3.4 | 1.9 | 3.3 | 1 | J |
| 307 | 7.0 | 19 | J | 5.0 | 18 | 158 | -4.1 | 1.8 | 1.3 | 2 | J |
| 305 | 6.4 | 14 | J | 5.0 | 15 | 157 | -4.4 | 1.9 | 1.2 | 1 | J |
| 321 | 8.5 | 31 | J | 6.1 | -10 | 141 | -4.4 | 3.6 | -1.0 | 2 | J |
| 324 | 9.9 | 27 | J | 5.9 | -11 | 139 | -4.2 | 3.7 | -0.9 | 2 | J |
| 321 | 12.0 | 15 | J | 5.3 | 3 | 130 | -3.4 | 4.0 | 0.5 | 1 | J |
| 310 | 14.2 | 14 | J | 4.8 | 0 | 136 | -3.3 | 3.2 | 0.2 | 1 | J |
| 306 | 13.7 | 12 | J | 4.7 | -4 | 139 | -3.5 | 3.1 | -0.1 | 1 | J |

### JUL. 12, 1979

193

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 306 | 14.9 | 12 | J | 4.2 | 5 | 134 | -2.8 | 2.9 | 0.5 | 1 | J |
| 2 | 304 | 13.8 | 13 | J | 4.2 | 2 | 140 | -3.2 | 2.7 | 0.2 | 0 | J |
| 3 | 303 | 12.9 | 14 | J | 3.7 | 2 | 142 | -2.9 | 2.3 | 0.1 | 1 | J |
| 4 | 294 | 10.4 | 18 | J | 3.5 | 3 | 163 | -3.3 | 1.0 | 0.1 | 0 | J |
| 5 | 293 | 9.7 | 17 | J | 3.4 | -3 | 167 | -3.3 | 0.7 | -0.3 | 0 | J |
| 6 | 304 | 16.9 | 10 | J | 1.5 | -19 | 189 | -0.3 | -0.1 | -0.1 | 2 | J |
| 7 | 303 | 16.9 | 10 | J | 2.9 | 14 | 326 | 2.3 | -1.3 | 1.0 | 2 | J |
| 8 | 307 | 15.3 | 12 | J | 4.5 | 8 | 314 | 3.0 | -2.8 | 1.4 | 2 | C |
| 9 | 307 | 16.0 | 13 | J | 4.8 | 6 | 313 | 3.2 | -3.1 | 1.5 | 1 | J |
| 10 | 306 | 16.5 | 13 | J | 4.5 | -8 | 317 | 3.0 | -2.9 | 0.4 | 2 | J |
| 11 | 308 | 13.4 | 16 | J | 5.2 | -3 | 300 | 2.5 | -4.2 | 1.3 | 1 | J |
| 12 | 313 | 14.3 | 21 | J | 4.9 | -12 | 310 | 3.0 | -3.6 | 0.3 | 1 | J |
| 13 | 322 | 19.7 | 26 | J | 6.4 | 9 | 310 | 3.8 | -3.9 | 2.4 | 3 | J |
| 14 | 327 | 22.9 | 32 | J | 7.9 | 14 | 294 | 2.9 | -5.7 | 3.8 | 3 | J |
| 15 | 328 | 29.2 | 26 | J | 6.5 | -7 | 287 | 1.7 | -5.5 | 0.8 | 3 | J |
| 16 | 329 | 30.4 | 23 | J | 5.8 | -17 | 281 | 0.8 | -4.5 | -0.4 | 4 | J |
| 17 | 336 | 12.8 | 21 | J | 9.5 | -68 | 122 | -1.9 | 1.5 | -9.1 | 1 | J |
| 18 | 344 | 20.6 | 29 | J | 6.9 | -76 | 23 | 1.3 | -0.0 | -5.7 | 4 | J |
| 19 | 360 | 25.6 | 21 | J | 7.4 | -64 | 325 | 1.3 | -1.1 | -3.3 | 6 | J |
| 20 | 335 | 13.1 | 17 | J | 9.6 | 15 | 318 | 6.9 | -6.2 | 2.5 | 1 | J |
| 21 | 331 | 9.8 | 13 | J | 10.2 | -3 | 315 | 6.6 | -6.5 | -0.7 | 4 | J |
| 22 | 328 | 13.5 | 17 | J | 11.0 | 23 | 330 | 8.5 | -5.1 | 3.8 | 3 | J |
| 23 | 332 | 15.7 | 15 | J | 11.4 | 2 | 328 | 9.5 | -5.9 | 0.0 | 2 | J |
| 24 | 327 | 14.4 | 16 | J | 11.0 | -20 | 333 | 9.0 | -4.3 | -3.9 | 3 | J |

### JUL. 13, 1979

194

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 328 | 13.5 | 17 | J | 10.1 | -33 | 329 | 6.7 | -3.8 | -5.2 | 4 | J |
| 325 | 14.0 | 17 | J | 9.1 | -53 | 313 | 3.6 | -3.9 | -7.0 | 2 | J |
| 321 | 14.5 | 20 | J | 8.2 | -53 | 29 | 3.6 | 1.8 | -5.6 | 5 | J |
| 325 | 14.2 | 20 | J | 8.3 | -54 | 52 | 2.6 | 2.8 | -6.0 | 4 | J |
| 330 | 7.1 | 33 | J | 8.4 | -45 | 308 | 3.4 | -5.0 | -4.8 | 3 | J |
| 337 | 14.6 | 26 | J | 6.2 | -17 | 293 | 2.2 | -5.3 | -0.7 | 2 | J |
| 355 | 18.1 | 21 | J | 5.8 | 12 | 283 | 1.2 | -4.8 | 2.4 | 2 | J |
| 330 | 18.2 | 23 | J | 5.5 | 13 | 286 | 1.4 | -4.3 | 2.5 | 2 | J |
| 333 | 19.1 | 17 | J | 6.5 | -20 | 309 | 3.7 | -5.0 | -0.6 | 2 | J |
| 335 | 17.2 | 16 | J | 8.9 | -24 | 322 | 6.2 | -5.7 | -1.6 | 2 | J |
| 343 | 18.3 | 34 | J | 11.1 | -18 | 299 | 5.0 | -9.7 | 0.1 | 2 | J |
| 351 | 13.8 | 51 | J | 12.7 | -26 | 295 | 4.8 | -11.6 | -1.5 | 2 | J |
| 355 | 18.2 | 60 | J | 12.2 | -36 | 295 | 3.8 | -9.8 | -3.3 | 5 | J |
| 371 | 16.8 | 58 | J | 13.1 | -57 | 317 | 5.1 | -7.9 | -8.7 | 3 | J |
| 351 | 15.8 | 52 | C | 12.5 | -43 | 321 | 6.4 | -7.1 | -5.9 | 5 | J |
| 354 | 20.2 | 61 | J | 10.5 | -18 | 290 | 2.8 | -8.0 | -0.8 | 6 | J |
| 353 | 22.8 | 106 | J | 7.7 | -42 | 16 | 4.6 | 0.6 | -4.5 | 4 | J |
| 341 | 17.9 | 63 | C | 10.0 | -26 | 351 | 8.3 | -1.8 | -4.0 | 3 | J |
| 332 | 16.9 | 60 | C | 10.7 | -17 | 326 | 8.3 | -5.8 | -2.8 | 2 | J |
| 339 | 13.6 | 57 | J | 9.3 | -13 | 295 | 3.7 | -8.0 | -2.0 | 2 | J |
| 343 | 13.8 | 56 | J | 9.3 | 5 | 304 | 4.8 | -7.1 | 0.5 | 3 | J |
| 342 | 13.4 | 52 | J | 9.2 | 19 | 291 | 2.9 | -7.6 | 2.4 | 3 | J |
| 330 | 11.9 | 66 | J | 9.0 | 6 | 314 | 5.7 | -5.9 | 0.5 | 4 | J |
| 322 | 11.1 | 46 | J | 8.9 | 23 | 314 | 5.6 | -6.0 | 3.1 | 1 | J |

### JUL. 14, 1979

195

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 329 | 11.1 | 49 | J | 8.9 | 16 | 308 | 5.2 | -6.7 | 2.2 | 1 | J |
| 2 | 333 | 10.9 | 48 | J | 9.3 | 24 | 311 | 5.5 | -6.3 | 3.7 | 2 | J |
| 3 | 360 | 11.7 | 57 | J | 9.3 | 16 | 271 | 0.1 | -6.3 | 2.1 | 6 | J |
| 4 | 342 | 11.6 | 71 | J | 9.6 | 53 | 320 | 4.3 | -3.0 | 7.0 | 4 | J |
| 5 | 349 | 12.0 | 104 | J | 9.6 | 52 | 311 | 3.2 | -2.7 | 6.7 | 5 | J |
| 6 | 354 | 9.5 | 82 | J | 11.3 | 49 | 33 | 5.9 | 5.3 | 7.2 | 4 | J |
| 7 | 360 | 11.4 | 98 | J | 10.7 | 45 | 320 | 5.4 | -2.7 | 8.0 | 4 | J |
| 8 | 375 | 9.3 | 66 | J | 11.9 | 36 | 304 | 5.3 | -5.5 | 8.9 | 2 | J |
| 9 | 388 | 9.9 | 127 | J | 9.8 | 28 | 305 | 4.5 | -4.7 | 6.0 | 4 | J |
| 10 | 396 | 9.8 | 218 | J | 5.9 | -33 | 330 | 3.0 | -2.4 | -1.5 | 5 | J |
| 11 | 392 | 7.9 | 184 | C | 8.1 | 20 | 302 | 2.0 | -2.5 | 2.4 | 7 | C |
| 12 | 396 | 8.0 | 193 | C | 5.7 | -38 | 301 | 1.5 | -3.2 | -1.2 | 4 | C |
| 13 | 391 | 10.8 | 203 | J | 8.3 | -22 | 303 | 3.5 | -6.0 | -0.5 | 4 | J |
| 14 | 386 | 8.9 | 158 | L | 9.9 | -1 | 313 | 5.3 | -5.4 | 1.7 | 6 | J |
| 15 | 388 | 7.7 | 146 | L | 11.5 | 37 | 322 | 6.8 | -3.2 | 7.7 | 4 | J |
| 16 | 416 | 6.0 | 112 | C | 11.7 | 40 | 308 | 5.3 | -4.9 | 8.6 | 3 | J |
| 17 | 423 | 6.1 | 121 | C | 10.9 | 13 | 312 | 6.5 | -6.7 | 3.5 | 5 | J |
| 18 | 446 | 5.2 | 134 | C | 11.8 | 44 | 306 | 4.6 | -5.5 | 8.4 | 3 | C |
| 19 | 439 | 4.7 | 123 | C | 11.9 | 4 | 318 | 7.0 | -6.3 | 1.1 | 7 | C |
| 20 | 459 | 3.6 | 148 | C | 11.4 | -52 | 338 | 6.0 | -2.5 | -8.2 | 4 | C |
| 21 | 459 | 3.5 | 180 | C | 10.6 | -13 | 320 | 6.9 | -5.7 | -2.3 | 5 | C |
| 22 | 482 | 3.6 | 212 | C | 9.1 | -15 | 333 | 6.9 | -3.4 | -2.2 | 4 | C |
| 23 | 476 | 3.5 | 217 | C | 10.4 | 2 | 312 | 6.3 | -7.1 | 0.0 | 3 | C |
| 24 | 525 | 3.8 | 273 | C | 9.9 | -15 | 302 | 4.3 | -6.8 | -2.5 | 4 | C |

### JUL. 15, 1979

196

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | 3.9 | 253 | C | 9.7 | -11 | 310 | 5.1 | -6.1 | -1.7 | 4 | C |
| 511 | 3.8 | 256 | C | 9.3 | -30 | 308 | 4.1 | -5.3 | -3.9 | 4 | C |
| 502 | 3.5 | 219 | C | 8.9 | -5 | 309 | 4.6 | -5.8 | -0.4 | 4 | C |
| 492 | 4.2 | 237 | C | 8.9 | 8 | 313 | 5.2 | -5.5 | 1.7 | 3 | C |
| 500 | 3.7 | 182 | C | 8.9 | 17 | 319 | 5.5 | -4.4 | 2.9 | 4 | C |
| 498 | 3.9 | 199 | C | 8.7 | -4 | 314 | 5.3 | -5.4 | 0.6 | 4 | C |
| 483 | 3.7 | 153 | C | 8.9 | -16 | 305 | 4.4 | -6.6 | -0.5 | 3 | C |
| 469 | 4.0 | 139 | C | 8.6 | -12 | 326 | 6.4 | -4.6 | -0.2 | 3 | C |
| 472 | 3.6 | 120 | C | 9.1 | -8 | 307 | 5.0 | -6.7 | 1.0 | 2 | C |
| 462 | 3.5 | 107 | C | 9.2 | -23 | 323 | 6.3 | -5.6 | -1.5 | 3 | C |
| 458 | 3.3 | 102 | C | 9.5 | -26 | 319 | 6.0 | -6.3 | -1.6 | 3 | C |
| 500 | 3.2 | 115 | C | 9.5 | -21 | 284 | 2.1 | -8.7 | 0.0 | 2 | C |
| 440 | 3.1 | 100 | C | 9.0 | -8 | 316 | 5.9 | -5.8 | 1.0 | 3 | C |
| 482 | 3.0 | 100 | C | 8.5 | -24 | 305 | 4.0 | -6.5 | -1.1 | 3 | C |
| 485 | 2.8 | 92 | C | 8.1 | -32 | 315 | 4.6 | -5.6 | -2.5 | 2 | C |
| 477 | 2.9 | 95 | C | 7.9 | -19 | 324 | 5.0 | -4.0 | -1.2 | 4 | C |
| 459 | 2.8 | 86 | C | 7.9 | -14 | 330 | 6.3 | -3.9 | -1.1 | 2 | C |
| 455 | 2.9 | 74 | C | 8.0 | -18 | 356 | 7.0 | -0.8 | -2.1 | 3 | C |
| 466 | 3.1 | 84 | C | 8.1 | -18 | 334 | 6.6 | -3.3 | -2.2 | 2 | C |
| 492 | 3.2 | 100 | C | 8.0 | -31 | 304 | 3.5 | -5.2 | -3.6 | 3 | C |
| 462 | 3.3 | 89 | C | 7.9 | -24 | 346 | 6.6 | -1.7 | -3.1 | 2 | C |
| 478 | 3.3 | 101 | C | 7.6 | -17 | 333 | 6.0 | -3.0 | -2.2 | 2 | C |
| 469 | 3.4 | 110 | C | 7.6 | -19 | 320 | 5.3 | -4.4 | -2.6 | 1 | C |
| 453 | 3.4 | 101 | C | 7.4 | -12 | 344 | 6.6 | -1.8 | -1.5 | 2 | C |

### JUL. 16, 1979

197

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 469 | 3.5 | 104 | C | 7.3 | -16 | 343 | 5.4 | -1.6 | -1.6 | 4 | C |
| 2 | 442 | 3.5 | 100 | C | 7.3 | -12 | 330 | 5.5 | -3.2 | -1.3 | 3 | C |
| 3 | 447 | 3.8 | 104 | C | 7.2 | -13 | 343 | 6.1 | -2.0 | -1.3 | 2 | C |
| 4 | 443 | 3.7 | 94 | C | 7.2 | 2 | 334 | 5.9 | -2.8 | 0.6 | 2 | C |
| 5 | 449 | 4.0 | 101 | C | 7.1 | 15 | 319 | 4.4 | -3.5 | 2.1 | 3 | C |
| 6 | 440 | 3.7 | 98 | C | 7.4 | -21 | 333 | 5.5 | -3.3 | -1.7 | 3 | C |
| 7 | 436 | 3.5 | 83 | C | 7.2 | -21 | 310 | 4.1 | -5.4 | -1.2 | 2 | C |
| 8 | 432 | 3.5 | 79 | C | 7.4 | -27 | 318 | 4.7 | -5.0 | -1.8 | 2 | C |
| 9 | 450 | 4.1 | 89 | C | 7.0 | 29 | 318 | 3.6 | -2.1 | 3.6 | 4 | C |
| 10 | 442 | 4.0 | 79 | C | 6.9 | 23 | 321 | 4.3 | -2.4 | 3.4 | 3 | C |
| 11 | 436 | 3.9 | 75 | C | 7.0 | 43 | 356 | 4.8 | 1.4 | 4.3 | 2 | C |
| 12 | 408 | 5.0 | 46 | C | 7.9 | 31 | 336 | 6.0 | -1.0 | 4.6 | 2 | C |
| 13 | 403 | 8.2 | 38 | C | 7.0 | 39 | 345 | 4.9 | 0.3 | 4.3 | 2 | C |
| 14 | 418 | 8.6 | 45 | C | 6.3 | 44 | 339 | 3.3 | -0.0 | 3.6 | 3 | C |
| 15 | 437 | 7.9 | 44 | C | 6.6 | 49 | 337 | 2.5 | -0.1 | 3.3 | 4 | C |
| 16 | 435 | 7.1 | 60 | C | 7.1 | 9 | 339 | 4.3 | -4.9 | 2.4 | 1 | C |
| 17 | 464 | 5.4 | 69 | C | 7.3 | 23 | 321 | 5.0 | -3.4 | 3.4 | 2 | C |
| 18 | 492 | 5.0 | 93 | C | 6.3 | -4 | 302 | 2.9 | -4.7 | 0.2 | 2 | C |
| 19 | 500 | 5.3 | 105 | C | 5.4 | 8 | 312 | 3.0 | -3.3 | 0.9 | 2 | C |
| 20 | 494 | 5.1 | 94 | C | 5.4 | -21 | 306 | 2.5 | -3.5 | -1.6 | 2 | C |
| 21 | 492 | 5.2 | 96 | C | 4.9 | -15 | 351 | 4.0 | -0.7 | -1.1 | 2 | C |
| 22 | 505 | 4.9 | 84 | C | 5.3 | 41 | 333 | 2.9 | -1.6 | 2.8 | 2 | C |
| 23 | 494 | 4.5 | 81 | C | 5.7 | -40 | 312 | 2.7 | -2.9 | -3.5 | 2 | C |
| 24 | 487 | 4.6 | 81 | C | 5.9 | -47 | 296 | 1.6 | -3.2 | -4.0 | 2 | C |

### JUL. 17, 1979

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 486 | 4.9 | 87 | C | 5.7 | -41 | 311 | 2.6 | -2.9 | -3.4 | 2 | C |
| 478 | 4.8 | 84 | C | 5.4 | -10 | 316 | 3.3 | -3.2 | -0.7 | 2 | C |
| 475 | 4.7 | 76 | C | 5.7 | 11 | 325 | 3.6 | -2.5 | 1.0 | 3 | C |
| 484 | 4.9 | 61 | C | 6.0 | -31 | 288 | 1.5 | -4.7 | -2.3 | 2 | C |
| 471 | 5.3 | 71 | C | 5.6 | 27 | 322 | 2.8 | -1.8 | 2.1 | 3 | C |
| 474 | 5.3 | 66 | C | 5.5 | -14 | 306 | 2.4 | -3.4 | -0.3 | 3 | C |
| 462 | 5.3 | 70 | C | 5.2 | 2 | 328 | 3.6 | -2.1 | 0.7 | 3 | C |
| 472 | 5.6 | 65 | C | 5.1 | 11 | 304 | 1.9 | -2.4 | 1.5 | 3 | C |
| 470 | 6.0 | 57 | C | 5.9 | 42 | 338 | 3.5 | -0.1 | 3.7 | 2 | C |
| 465 | 6.5 | 53 | C | 6.4 | -21 | 303 | 2.9 | -4.9 | -0.3 | 2 | C |
| 473 | 7.1 | 48 | C | 7.1 | -35 | 268 | -0.2 | -6.3 | -1.4 | 2 | C |
| 457 | 7.0 | 56 | C | 7.0 | 1 | 290 | 2.0 | -4.9 | 2.2 | 4 | C |
| 453 | 7.6 | 47 | C | 8.0 | -34 | 293 | 2.4 | -6.7 | -1.7 | 3 | C |
| 455 | 8.0 | 68 | C | 7.1 | -42 | 293 | 1.7 | -5.1 | -2.3 | 4 | C |
| 462 | 8.0 | 99 | C | 5.9 | -12 | 282 | 0.7 | -3.4 | 0.3 | 4 | C |
| 459 | 8.2 | 113 | C | 5.5 | -7 | 266 | -0.2 | -3.1 | 0.4 | 4 | C |
| 466 | 9.0 | 136 | C | 5.2 | 26 | 254 | -0.8 | -2.6 | 2.0 | 3 | C |
| 456 | 8.8 | 129 | C | 6.5 | 48 | 299 | 1.9 | -2.8 | 4.7 | 2 | C |
| 461 | 8.6 | 121 | C | 6.4 | 4 | 331 | 1.6 | -0.9 | 0.2 | 6 | C |
| 464 | 9.6 | 113 | C | 8.4 | 78 | 308 | 0.9 | -1.0 | 7.5 | 2 | C |
| 459 | 9.9 | 113 | C | 9.7 | 67 | 343 | 3.4 | -1.0 | 8.1 | 3 | C |
| 469 | 8.4 | 113 | C | 10.4 | -16 | 278 | 0.9 | -6.7 | -2.2 | 7 | C |
| 464 | 7.6 | 141 | C | 9.7 | -16 | 289 | 2.1 | -6.0 | -2.0 | 6 | C |
| 481 | 7.4 | 150 | C | 10.0 | -25 | 282 | 1.4 | -6.7 | -3.4 | 5 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 487 | 7.1 | 155 | C | 9.0 | -19 | 278 | 1.0 | -7.2 | -2.5 | 4 | C |
| 2 | 476 | 6.5 | 119 | C | 9.3 | 15 | 287 | 2.3 | -7.5 | 2.3 | 4 | C |
| 3 | 475 | 6.3 | 101 | C | 9.3 | 26 | 309 | 5.0 | -5.9 | 4.3 | 3 | C |
| 4 | 482 | 6.6 | 114 | C | 9.3 | -7 | 316 | 5.7 | -5.6 | -0.3 | 4 | C |
| 5 | 491 | 6.2 | 119 | C | 7.9 | 20 | 335 | 4.8 | -1.9 | 2.3 | 5 | C |
| 6 | 513 | 5.8 | 91 | C | 8.1 | -62 | 308 | 2.2 | -4.2 | -6.0 | 2 | C |
| 7 | 504 | 5.9 | 89 | C | 7.9 | 8 | 302 | 3.2 | -4.6 | 2.1 | 5 | C |
| 8 | 501 | 5.8 | 72 | C | 7.9 | -28 | 308 | 3.7 | -5.5 | -1.5 | 3 | C |
| 9 | 483 | 5.6 | 67 | C | 7.8 | 13 | 319 | 5.5 | -3.9 | 3.3 | 2 | C |
| 10 | 486 | 5.6 | 66 | C | 7.6 | 13 | 327 | 5.9 | -2.9 | 2.9 | 2 | C |
| 11 | 502 | 5.5 | 67 | C | 7.6 | -12 | 297 | 3.0 | -5.9 | 1.0 | 3 | C |
| 12 | 495 | 5.2 | 73 | C | 7.3 | 1 | 319 | 5.0 | -4.0 | 1.8 | 3 | C |
| 13 | 506 | 5.4 | 96 | C | 6.2 | 0 | 333 | 5.2 | -2.4 | 0.9 | 2 | C |
| 14 | 515 | 5.4 | 98 | C | 6.1 | 2 | 323 | 4.7 | -3.3 | 1.5 | 1 | C |
| 15 | 532 | 5.0 | 105 | C | 6.0 | -25 | 324 | 3.6 | -3.2 | -1.2 | 3 | C |
| 16 | 519 | 4.5 | 109 | C | 5.4 | -31 | 343 | 3.5 | -1.6 | -1.8 | 3 | C |
| 17 | 530 | 5.0 | 128 | C | 5.3 | -2 | 352 | 5.1 | -0.7 | -0.0 | 1 | C |
| 18 | 540 | 4.4 | 125 | C | 5.7 | -16 | 335 | 4.5 | -2.3 | -1.2 | 2 | C |
| 19 | 560 | 3.9 | 106 | C | 6.0 | -65 | 270 | 0.0 | -2.8 | -4.9 | 2 | C |
| 20 | 556 | 3.8 | 113 | C | 5.9 | -61 | 244 | -1.2 | -2.6 | -4.8 | 1 | C |
| 21 | 545 | 3.8 | 117 | C | 5.7 | -58 | 281 | 0.5 | -2.6 | -4.2 | 2 | C |
| 22 | 534 | 4.1 | 104 | C | 5.0 | -62 | 16 | 1.9 | 0.6 | -3.5 | 2 | C |
| 23 | 523 | 4.3 | 121 | C | 5.5 | -37 | 4 | 3.7 | 0.3 | -2.8 | 2 | C |
| 24 | 523 | 4.3 | 101 | C | 5.7 | -19 | 328 | 4.4 | -2.7 | -1.8 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 511 | 4.1 | 89 | C | 6.0 | 8 | 333 | 5.2 | -2.6 | 0.9 | 1 | C |
| 2 | 508 | 3.8 | 89 | C | 5.7 | -17 | 338 | 4.1 | -1.7 | -1.3 | 3 | C |
| 3 | 529 | 4.5 | 102 | C | 5.4 | -59 | 261 | -0.4 | -2.5 | -3.6 | 2 | C |
| 4 | 494 | 4.5 | 81 | C | 5.4 | -44 | 323 | 2.4 | -2.2 | -2.7 | 3 | C |
| 5 | 487 | 5.1 | 88 | C | 5.5 | -9 | 334 | 4.6 | -2.3 | -0.4 | 2 | C |
| 6 | 485 | 6.2 | 85 | C | 5.4 | 2 | 309 | 3.2 | -3.8 | 1.1 | 1 | C |
| 7 | 479 | 5.8 | 87 | C | 5.9 | 11 | 355 | 5.6 | -0.2 | 1.2 | 1 | C |
| 8 | 473 | 6.3 | 84 | C | 5.8 | 18 | 358 | 5.3 | 0.3 | 1.6 | 1 | C |
| 9 | 473 | 6.3 | 79 | C | 6.2 | 8 | 2 | 5.1 | 0.4 | 0.6 | 3 | C |
| 10 | 461 | 6.0 | 73 | C | 6.5 | 5 | 21 | 5.6 | 2.1 | -0.3 | 2 | C |
| 11 | 457 | 4.3 | 66 | C | 7.2 | 11 | 27 | 6.2 | 3.4 | 0.0 | 1 | C |
| 12 | 459 | 4.1 | 69 | C | 6.9 | 17 | 2 | 6.5 | 1.0 | 1.7 | 1 | C |
| 13 | 452 | 3.8 | 61 | C | 6.8 | 11 | 9 | 6.5 | 1.4 | 0.8 | 1 | C |
| 14 | 453 | 4.0 | 72 | C | 6.3 | 7 | 16 | 5.9 | 1.9 | 0.1 | 1 | C |
| 15 | 457 | 4.6 | 70 | C | 5.2 | -31 | 3 | 2.7 | -0.4 | -1.6 | 4 | C |
| 16 | 434 | 4.7 | 76 | C | 5.0 | -13 | 355 | 4.5 | -0.6 | -0.9 | 1 | C |
| 17 | 436 | 4.7 | 78 | C | 4.9 | 19 | 348 | 4.2 | -0.6 | 1.6 | 2 | C |
| 18 | 442 | 4.4 | 79 | C | 5.1 | 1 | 319 | 3.7 | -3.2 | 0.6 | 1 | C |
| 19 | 445 | 4.0 | 81 | C | 5.7 | -5 | 320 | 4.0 | -3.5 | -0.2 | 2 | C |
| 20 | 434 | 4.5 | 95 | C | 5.1 | -18 | 302 | 2.5 | -4.0 | -1.3 | 1 | C |
| 21 | 442 | 4.7 | 90 | C | 4.6 | -1 | 321 | 2.6 | -2.1 | -0.0 | 3 | C |
| 22 | 446 | 5.4 | 75 | C | 5.8 | -45 | 274 | 0.3 | -3.6 | -3.7 | 2 | C |
| 23 | 439 | 5.4 | 81 | C | 6.3 | -8 | 312 | 4.1 | -4.5 | -0.9 | 1 | C |
| 24 | 431 | 5.7 | 77 | C | 6.0 | 11 | 331 | 5.1 | -2.8 | 1.1 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 428 | 9.1 | 88 | L | 5.9 | 11 | 347 | 5.6 | -1.3 | 1.1 | 1 | C |
| 2 | 426 | 6.5 | 66 | C | 6.2 | 11 | 343 | 5.7 | -1.7 | 1.2 | 1 | C |
| 3 | 429 | 9.0 | 108 | J | 6.0 | 5 | 315 | 3.7 | -3.6 | 0.8 | 3 | J |
| 4 | 418 | 9.2 | 55 | J | 5.4 | -21 | 262 | -0.6 | -4.5 | -1.1 | 2 | J |
| 5 | 414 | 8.8 | 57 | J | 5.3 | -29 | 260 | -0.7 | -4.1 | -1.4 | 3 | J |
| 6 | 413 | 8.7 | 56 | J | 5.4 | -26 | 252 | -0.7 | -2.5 | -0.6 | 5 | J |
| 7 | 407 | 8.5 | 55 | J | 5.3 | -32 | 267 | -0.2 | -4.0 | -1.1 | 3 | J |
| 8 | 411 | 8.1 | 46 | J | 5.4 | -61 | 187 | -1.9 | -1.3 | -3.2 | 4 | J |
| 9 | 420 | 8.8 | 60 | J | 5.1 | -47 | 188 | -3.1 | -1.6 | -3.0 | 2 | J |
| 10 | 441 | 13.0 | 70 | J | 6.5 | -42 | 224 | -3.0 | -4.1 | -2.3 | 3 | J |
| 11 | 446 | 15.6 | 80 | J | 7.5 | -70 | 239 | -1.2 | -4.3 | -5.0 | 3 | J |
| 12 | 452 | 16.8 | 71 | J | 8.8 | -47 | 269 | -0.1 | -6.1 | -2.6 | 6 | J |
| 13 | 452 | 15.7 | 72 | J | 10.2 | -47 | 276 | 0.4 | -5.4 | -2.5 | 8 | J |
| 14 | 455 | 10.6 | 121 | J | 9.2 | 7 | 289 | 2.7 | -7.0 | 3.8 | 4 | J |
| 15 | 466 | 11.6 | 155 | J | 7.1 | 53 | 303 | 1.6 | -1.1 | 4.6 | 5 | J |
| 16 | 461 | 15.4 | 150 | J | 7.3 | 3 | 291 | 2.3 | -5.6 | 1.9 | 3 | J |
| 17 | 474 | 11.1 | 180 | J | 6.5 | -9 | 344 | 3.3 | -1.0 | -0.3 | 6 | J |
| 18 | 471 | 9.2 | 159 | J | 7.5 | -34 | 344 | 5.7 | -2.2 | -3.7 | 2 | J |
| 19 | 467 | 7.7 | 123 | J | 8.0 | -28 | 293 | 2.3 | -5.6 | -2.6 | 4 | J |
| 20 | 471 | 7.5 | 106 | J | 7.2 | -24 | 274 | 0.4 | -6.4 | -2.5 | 2 | J |
| 21 | 462 | 8.2 | 122 | J | 6.1 | -20 | 288 | 1.6 | -4.9 | -1.8 | 3 | J |
| 22 | 468 | 7.1 | 84 | J | 7.1 | -31 | 277 | 0.7 | -5.6 | -3.4 | 3 | J |
| 23 | 469 | 6.8 | 80 | J | 6.4 | 5 | 287 | 1.3 | -4.4 | 0.3 | 4 | J |
| 24 | 462 | 7.2 | 85 | J | 5.6 | 4 | 313 | 3.0 | -3.2 | 0.3 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 465 | 6.9 | 71 | J | 6.1 | -14 | 300 | 2.8 | -4.8 | -1.3 | 2 | J |
| 2 | 463 | 6.9 | 59 | J | 5.9 | 17 | 319 | 3.4 | -2.9 | 1.5 | 3 | J |
| 3 | 467 | 6.4 | 64 | J | 5.7 | -7 | 310 | 3.2 | -3.8 | -0.3 | 3 | J |
| 4 | 451 | 5.6 | 47 | J | 5.7 | -21 | 331 | 4.3 | -2.6 | -1.6 | 2 | J |
| 5 | 474 | 5.9 | 48 | J | 5.6 | -16 | 342 | 3.4 | -1.3 | -0.8 | 3 | J |
| 6 | 456 | 5.4 | 49 | J | 5.6 | -7 | 314 | 3.2 | -3.4 | 0.2 | 3 | J |
| 7 | 460 | 5.6 | 44 | J | 5.4 | 23 | 324 | 3.2 | -1.7 | 2.3 | 3 | J |
| 8 | 457 | 5.2 | 37 | J | 5.4 | 35 | 346 | 3.8 | 0.0 | 2.9 | 2 | J |
| 9 | 460 | 5.3 | 50 | J | 5.3 | -11 | 296 | 1.9 | -3.9 | 0.6 | 3 | J |
| 10 | 465 | 5.2 | 40 | J | 5.1 | -41 | 292 | 1.1 | -3.4 | -1.3 | 3 | J |
| 11 | 473 | 5.0 | 40 | J | 5.2 | -14 | 263 | -0.6 | -4.9 | 0.8 | 2 | J |
| 12 | 471 | 5.1 | 41 | J | 5.2 | -14 | 267 | -0.3 | -5.0 | 0.9 | 1 | J |
| 13 | 466 | 5.3 | 39 | J | 5.2 | -22 | 265 | -0.4 | -4.6 | 0.1 | 2 | J |
| 14 | 448 | 5.1 | 51 | J | 5.1 | -8 | 297 | 2.0 | -3.8 | 0.9 | 2 | J |
| 15 | 460 | 5.6 | 37 | J | 5.3 | -31 | 261 | -0.7 | -4.7 | -1.0 | 2 | J |
| 16 | 445 | 5.2 | 42 | J | 5.2 | -14 | 278 | 0.6 | -4.2 | 0.1 | 3 | J |
| 17 | 442 | 5.6 | 44 | J | 5.3 | -11 | 282 | 0.9 | -4.1 | 0.1 | 3 | J |
| 18 | 420 | 5.3 | 40 | J | 5.1 | -8 | 329 | 3.9 | -2.4 | -0.3 | 2 | J |
| 19 | 420 | 5.2 | 39 | J | 5.3 | 4 | 327 | 4.1 | -2.6 | 0.6 | 2 | J |
| 20 | 410 | 5.1 | 30 | J | 5.6 | -14 | 329 | 4.3 | -2.7 | -1.1 | 2 | J |
| 21 | 427 | 5.0 | 37 | J | 5.5 | -28 | 302 | 2.3 | -3.7 | -2.2 | 2 | J |
| 22 | 419 | 5.1 | 35 | J | 5.4 | -29 | 304 | 2.5 | -3.8 | -2.5 | 1 | J |
| 23 | 432 | 5.1 | 40 | J | 4.9 | -34 | 291 | 1.2 | -3.2 | -2.4 | 3 | J |
| 24 | 421 | 4.8 | 35 | J | 4.4 | -24 | 336 | 2.8 | -1.3 | -1.4 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 413 | 5.0 | 30 | J | 4.9 | -17 | 9 | 4.2 | 0.6 | -1.3 | 2 | J |
| 2 | 421 | 5.3 | 36 | J | 4.7 | -37 | 338 | 3.0 | -1.3 | -2.3 | 2 | J |
| 3 | 418 | 4.8 | 37 | J | 3.9 | -11 | 345 | 2.7 | -0.8 | -0.5 | 3 | J |
| 4 | 413 | 4.9 | 31 | J | 4.3 | 2 | 18 | 3.9 | 1.3 | -0.0 | 1 | J |
| 5 | 411 | 4.9 | 29 | J | 4.7 | 5 | 360 | 4.5 | 0.1 | 0.4 | 2 | J |
| 6 | 411 | 4.2 | 40 | J | 4.7 | 7 | 336 | 4.1 | -1.6 | 1.0 | 1 | J |
| 7 | 410 | 5.1 | 39 | J | 5.5 | -17 | 312 | 3.2 | -3.8 | -0.4 | 2 | J |
| 8 | 418 | 6.1 | 30 | J | 6.4 | 1 | 343 | 6.1 | -1.7 | 0.8 | 0 | C |
| 9 | 413 | 5.8 | 35 | J | 6.5 | 7 | 347 | 6.2 | -1.0 | 1.2 | 1 | C |
| 10 | 415 | 4.1 | 32 | J | 7.0 | 11 | 339 | 6.1 | -1.7 | 2.1 | 2 | J |
| 11 | 422 | 4.4 | 48 | J | 7.3 | 20 | 337 | 6.1 | -1.4 | 3.2 | 2 | J |
| 12 | 440 | 5.3 | 75 | J | 7.5 | 23 | 336 | 6.0 | -1.3 | 3.6 | 2 | J |
| 13 | 442 | 6.0 | 102 | J | 7.4 | 19 | 333 | 5.9 | -1.9 | 3.3 | 2 | J |
| 14 | 444 | 5.8 | 94 | J | 7.3 | 23 | 355 | 6.6 | 0.5 | 2.8 | 1 | J |
| 15 | 444 | 6.4 | 125 | J | 7.1 | 17 | 332 | 5.7 | -2.2 | 2.9 | 2 | J |
| 16 | 449 | 6.9 | 103 | J | 6.6 | 22 | 300 | 2.6 | -3.8 | 3.3 | 3 | J |
| 17 | 440 | 6.8 | 97 | J | 6.5 | 0 | 300 | 2.6 | -4.5 | 1.0 | 4 | J |
| 18 | 443 | 6.4 | 91 | J | 6.6 | 21 | 295 | 2.4 | -4.7 | 3.0 | 3 | J |
| 19 | 447 | 6.4 | 70 | J | 6.1 | 0 | 274 | 0.4 | -5.1 | 0.6 | 3 | J |
| 20 | 427 | 5.3 | 74 | J | 6.4 | 25 | 327 | 4.1 | -2.5 | 2.4 | 3 | J |
| 21 | 427 | 4.5 | 97 | J | 7.5 | 17 | 338 | 6.5 | -2.6 | 2.2 | 2 | J |
| 22 | 424 | 4.2 | 53 | J | 7.2 | 14 | 351 | 6.7 | -1.1 | 1.7 | 1 | J |
| 23 | 429 | 4.0 | 71 | J | 7.6 | 18 | 1 | 6.9 | 0.1 | 2.3 | 2 | J |
| 24 | 422 | 4.2 | 67 | J | 6.9 | -2 | 337 | 6.2 | -2.6 | -0.2 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 428 | 4.9 | 91 | J | 6.5 | 13 | 355 | 6.1 | -0.5 | 1.4 | 2 | J |
| 2 | 427 | 5.1 | 86 | J | 7.0 | 6 | 360 | 6.8 | 0.0 | 0.7 | 1 | J |
| 3 | 427 | 4.7 | 78 | J | 7.1 | 13 | 9 | 6.7 | 1.2 | 1.5 | 1 | J |
| 4 | 424 | 4.0 | 67 | J | 6.2 | 9 | 359 | 6.0 | 0.0 | 1.0 | 1 | J |
| 5 | 426 | 3.8 | 60 | J | 5.6 | -8 | 343 | 4.8 | -1.6 | -0.4 | 2 | J |
| 6 | 417 | 3.1 | 39 | J | 5.4 | -10 | 357 | 5.1 | -0.5 | -0.8 | 1 | J |
| 7 | 418 | 3.1 | 47 | J | 5.3 | -13 | 349 | 5.0 | -1.3 | -0.8 | 1 | J |
| 8 | 412 | 2.8 | 51 | J | 5.8 | -10 | 352 | 5.7 | -1.1 | -0.7 | 1 | J |
| 9 | 381 | 4.5 | 35 | J | 5.4 | 2 | 294 | 1.8 | -3.7 | 1.7 | 3 | J |
| 10 | 371 | 4.1 | 48 | J | 4.9 | -3 | 323 | 3.7 | -2.7 | 0.9 | 1 | J |
| 11 | 374 | 4.5 | 53 | J | 4.3 | 16 | 13 | 3.7 | 1.2 | 0.6 | 2 | J |
| 12 | 386 | 4.8 | 33 | J | 4.5 | 14 | 49 | 2.6 | 3.1 | -0.3 | 2 | J |
| 13 | 376 | 2.7 | 52 | J | 4.3 | 4 | 355 | 4.1 | -0.2 | 0.4 | 1 | J |
| 14 | 370 | 3.4 | 66 | J | 4.2 | -8 | 1 | 4.1 | -0.1 | -0.6 | 1 | J |
| 15 | 366 | 4.1 | 80 | J | 4.1 | -18 | 351 | 3.9 | -1.0 | -1.0 | 1 | J |
| 16 | 369 | 4.3 | 67 | J | 4.3 | -11 | 342 | 3.8 | -1.4 | -0.4 | 1 | J |
| 17 | 369 | 4.9 | 60 | J | 4.5 | -11 | 329 | 3.2 | -2.0 | -0.3 | 2 | J |
| 18 | 367 | 4.2 | 73 | J | 4.1 | -3 | 342 | 3.7 | -1.2 | 0.0 | 1 | J |
| 19 | 373 | 4.6 | 53 | C | 5.3 | -25 | 288 | 1.4 | -4.7 | -1.7 | 1 | C |
| 20 | 381 | 4.8 | 38 | J | 4.7 | -33 | 310 | 2.2 | -2.7 | -2.0 | 3 | J |
| 21 | 385 | 5.1 | 37 | J | 5.3 | -31 | 282 | 0.9 | -4.4 | -2.5 | 1 | J |
| 22 | 360 | 5.5 | 56 | C | 5.2 | -12 | 328 | 3.9 | -2.4 | -1.0 | 2 | C |
| 23 | 352 | 6.0 | 51 | C | 5.5 | -8 | 334 | 4.6 | -2.2 | -0.7 | 1 | C |
| 24 | 362 | 5.3 | 58 | J | 4.9 | 1 | 355 | 4.6 | -0.4 | 0.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 392 | 5.4 | 31 | J | 5.8 | -19 | 271 | 0.1 | -3.5 | -1.1 | 5 | J |
| 2 | 399 | 6.2 | 26 | J | 6.3 | -23 | 249 | -2.0 | -5.4 | -2.0 | 2 | J |
| 3 | 398 | 6.9 | 29 | J | 5.9 | -24 | 253 | -1.5 | -5.3 | -1.8 | 1 | J |
| 4 | 381 | 6.8 | 35 | C | 6.1 | -19 | 270 | 0.0 | -6.0 | -1.1 | 1 | C |
| 5 | 383 | 8.7 | 25 | J | 5.5 | -24 | 262 | -0.7 | -5.3 | -1.2 | 1 | J |
| 6 | 383 | 8.8 | 24 | J | 5.9 | -26 | 252 | -1.6 | -5.5 | -1.2 | 1 | J |
| 7 | 378 | 7.7 | 29 | C | 6.2 | -18 | 265 | -0.5 | -5.9 | -0.1 | 2 | C |
| 8 | 376 | 8.8 | 22 | J | 6.0 | -12 | 266 | -0.4 | -5.8 | 0.8 | 1 | J |
| 9 | 370 | 8.8 | 18 | J | 5.8 | -2 | 274 | 0.4 | -5.4 | 2.0 | 0 | J |
| 10 | 359 | 8.1 | 30 | J | 5.8 | -10 | 297 | 2.5 | -4.9 | 1.1 | 1 | J |
| 11 | 354 | 8.3 | 27 | J | 5.6 | 0 | 293 | 2.2 | -4.7 | 2.2 | 1 | J |
| 12 | 361 | 8.4 | 22 | J | 5.8 | -10 | 295 | 2.4 | -5.0 | 1.2 | 1 | J |
| 13 | 348 | 9.6 | 23 | J | 5.7 | -42 | 279 | 0.6 | -4.8 | -1.6 | 3 | J |
| 14 | 345 | 8.1 | 25 | J | 6.1 | -18 | 305 | 3.3 | -5.1 | 0.1 | 1 | J |
| 15 | 339 | 8.0 | 18 | J | 6.2 | -16 | 310 | 3.8 | -4.9 | -0.0 | 1 | J |
| 16 | 337 | 7.3 | 17 | J | 6.3 | -12 | 312 | 4.1 | -4.8 | 0.1 | 1 | J |
| 17 | 335 | 8.5 | 15 | J | 5.6 | -17 | 313 | 3.6 | -4.1 | -0.7 | 1 | J |
| 18 | 335 | 12.3 | 12 | J | 4.8 | -36 | 298 | 1.8 | -3.8 | -2.1 | 1 | J |
| 19 | 333 | 10.5 | 13 | J | 4.9 | -26 | 297 | 2.0 | -4.2 | -1.6 | 1 | J |
| 20 | 334 | 10.4 | 12 | J | 4.8 | -17 | 294 | 1.9 | -4.3 | -1.1 | 1 | J |
| 21 | 327 | 11.9 | 16 | C | 4.7 | -24 | 297 | 1.9 | -3.9 | -1.8 | 0 | J |
| 22 | 324 | 14.2 | 13 | C | 4.6 | -41 | 292 | 1.3 | -3.3 | -2.9 | 1 | C |
| 23 | 321 | 15.6 | 13 | C | 4.5 | -66 | 285 | 0.3 | -1.2 | -2.9 | 3 | C |
| 24 | 331 | 15.5 | 15 | J | 4.4 | 15 | 114 | -1.7 | 3.9 | 1.1 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 317 | 14.2 | 20 | J | 4.9 | -33 | 126 | -2.4 | 3.1 | -2.7 | 2 | J |
| 2 | 321 | 15.1 | 20 | J | 4.8 | -23 | 108 | -1.3 | 3.9 | -2.1 | 1 | J |
| 3 | 322 | 16.2 | 20 | J | 4.2 | -27 | 104 | -0.9 | 3.3 | -2.3 | 1 | J |
| 4 | 321 | 17.2 | 20 | J | 3.9 | -49 | 112 | -0.9 | 1.8 | -3.1 | 1 | J |
| 5 | 316 | 17.1 | 20 | J | 4.3 | -41 | 100 | -0.6 | 2.5 | -3.4 | 1 | C |
| 6 | 311 | 21.8 | 14 | C | 3.6 | 29 | 69 | 0.6 | 1.7 | 0.5 | 3 | C |
| 7 | 311 | 15.2 | 23 | L | 4.2 | 3 | 248 | -1.3 | -3.0 | 1.2 | 2 | J |
| 8 | 313 | 18.1 | 16 | J | 2.6 | -72 | 108 | -0.1 | -0.0 | -0.7 | 3 | J |
| 9 | 309 | 16.8 | 15 | J | 3.3 | -22 | 163 | -2.8 | 0.3 | -1.4 | 1 | J |
| 10 | 304 | 12.2 | 27 | J | 3.3 | 49 | 38 | 1.0 | 1.3 | 1.0 | 3 | J |
| 11 | 308 | 10.2 | 24 | J | 4.4 | 49 | 4 | 2.7 | 1.5 | 2.7 | 1 | J |
| 12 | 308 | 10.3 | 26 | J | 4.3 | 31 | 22 | 3.2 | 2.0 | 1.3 | 1 | J |
| 13 | 304 | 10.4 | 17 | J | 4.0 | 44 | 32 | 2.4 | 2.5 | 1.9 | 1 | J |
| 14 | 306 | 9.4 | 18 | J | 4.5 | 42 | 8 | 3.2 | 1.6 | 2.5 | 1 | J |
| 15 | 296 | 7.3 | 19 | J | 5.1 | 27 | 17 | 4.1 | 1.9 | 1.6 | 2 | J |
| 16 | 291 | 7.5 | 25 | J | 4.8 | 20 | 27 | 3.8 | 2.3 | 0.9 | 2 | J |
| 17 | 292 | 9.4 | 19 | J | 4.5 | 15 | 48 | 2.6 | 3.1 | 0.3 | 2 | J |
| 18 | 295 | 11.0 | 17 | J | 4.8 | 22 | 57 | 2.3 | 3.8 | 1.0 | 1 | J |
| 19 | 292 | 11.2 | 21 | J | 5.0 | 43 | 28 | 3.1 | 2.1 | 3.0 | 1 | J |
| 20 | 293 | 11.2 | 21 | J | 5.2 | 42 | 11 | 3.7 | 1.0 | 3.3 | 1 | J |
| 21 | 294 | 15.2 | 19 | C | 5.2 | 48 | 347 | 3.1 | -0.6 | 3.7 | 2 | C |
| 22 | 299 | 16.6 | 22 | C | 5.3 | 50 | 23 | 1.7 | 0.8 | 2.2 | 4 | C |
| 23 | 306 | 15.8 | 22 | C | 5.9 | 45 | 59 | 2.1 | 3.5 | 3.9 | 2 | C |
| 24 | 304 | 14.5 | 31 | L | 5.7 | 56 | 35 | 2.4 | 1.8 | 4.2 | 2 | C |

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HR    VEL  DEN TEMP/ PLS  AV B  GSE GSE  BXGSM  BYGSM  BZGSM SG IMF
               1000  SC   MAGN  LAT LON                           SC

                     JUL. 26, 1979                               207

 1    309 14.5   21  J    5.6   49   7    3.4    0.6    3.9  2  J
 2    307 14.7   21  J    5.4   43   3    3.9    0.5    3.6  1  J
 3    306 14.4   20  J    5.6   32 360    4.7    0.4    2.9  1  J
 4    306 16.4   17  J    5.2  -11 327    4.3   -2.9   -0.5  1  J
 5    306 16.8   17  J    5.4  -10 322    4.1   -3.3   -0.2  1  J
 6    307 19.7   16  C    5.8  -48 300    1.9   -4.3   -3.2  1  C
 7    309 19.8   15  C    5.7  -34 298    2.1   -4.7   -1.6  2  C
 8    319 15.1   24  J    6.4  -51 203   -3.7   -3.3   -4.1  1  J
 9    314 14.4   16  J    7.3  -41 269   -0.1   -6.2   -2.0  3  J
10    308 13.5   12  J    8.1  -32 284    1.6   -7.8   -1.1  1  J
11    315 13.7   15  J    7.8  -44 256   -1.3   -7.2   -2.5  1  J
12    312 13.8   14  J    7.7  -42 250   -2.0   -7.1   -2.3  1  J
13    301 16.1   13  C    8.0  -42 267   -0.3   -7.6   -2.4  1  C
14    302 16.0   14  C    7.9  -44 268   -0.2   -7.4   -2.8  1  C
15    303 17.0   14  C    7.6  -45 272    0.2   -6.8   -3.1  1  J
16    302 18.0   14  C    7.7  -42 258   -1.2   -6.9   -3.2  0  C
17    305 16.9   15  J    7.4  -43 275    0.5   -6.4   -3.5  1  J
18    305 17.8   12  J    7.6  -39 271    0.1   -6.6   -3.5  1  J
19    330 26.5   25  J   11.2  -37 279    1.4   -9.5   -5.4  5  J
20    353 38.1   34  J   15.3  -34 289    4.0  -12.5   -7.3  3  J
21    357 40.4   34  J   13.2  -60 307    3.4   -5.0   -9.4  7  J
22    366 38.3   31  J   13.6  -66  94   -0.4    5.0  -12.2  3  J
23    360 40.0   34  J   13.8  -72   3    4.2   -0.1  -12.9  3  J
24    343 30.0   41  J   14.6  -61 352    7.0   -1.4  -12.6  2  J

                     JUL. 28, 1979                               209

 1    354 23.3   31  J    7.4  -24 209   -5.4   -3.2   -2.6  2  J
 2    350 18.0   59  J    6.8  -49 142   -3.3    2.1   -5.0  3  J
 3    361 16.7   38  J    6.9  -42 101   -0.9    4.2   -5.0  2  J
 4    360 16.1   41  J    6.0  -28 152   -1.8    0.7   -1.2  6  J
 5    356 12.9   46  J    5.8    9 207   -4.8   -2.2    1.4  2  J
 6    351 15.1   42  J    6.5   11 214   -4.7   -2.7    1.9  3  J
 7    350 14.7   25  C    6.5   15 203   -5.7   -1.8    2.3  1  C
 8    341 13.7   70  L    6.6   19 204   -5.6   -1.5    2.9  1  C
 9    337 12.7   77  L    6.2   18 204   -5.3   -1.4    2.7  1  C
10    352 15.1   42  L    4.7   29 220   -2.7   -1.2    2.7  2  C
11    350  9.4   30  C    5.4   17 212   -4.2   -1.7    2.5  1  C
12    351  7.2   30  C    5.8   25 222   -3.9   -2.0    3.8  1  C
13    355  7.6   29  C    5.3   14 198   -4.8   -0.8    1.8  0  C
14    321 11.6   31  C    4.5   17 260   -0.4   -2.0    1.8  4  C
15    333 10.5   18  C
16    336 12.9   20  C    4.6   16 217   -2.6   -1.6    1.5  3  C
17    325 16.9   22  C    3.5  -33 309    1.2   -1.7   -0.8  3  C
18    322 24.2   12  C    3.5   21 245   -0.6   -1.2    0.8  3  C
19    321 25.4   10  C    3.3   33 180   -2.7    0.3    1.8  1  C
20    321 27.8   10  C    2.7   21 162   -2.4    0.9    0.9  0  C
21    319 30.8   10  C    2.2   26 157   -1.7    0.8    0.9  0  C
22    334 45.0   19  C    4.3   29 157   -3.3    1.5    2.0  1  C
23    346 60.8   22  C    4.6   12 201   -3.9   -1.5    1.0  1  C
24    333 64.3   18  C    5.1   34 205   -2.8   -1.2    2.2  3  C

                     JUL. 30, 1979                               211

 1    449 17.9   54  C   13.1   23 108   -3.6   11.5    4.1  3  C
 2    438  9.7  147  C   10.7   10 113   -3.3    7.9    0.7  6  C
 3    440  8.6  154  C   11.2   37  90   -0.0    9.2    5.0  3  C
 4    445  8.8  137  C   12.2   53  92   -0.2    8.8    8.0  2  C
 5    440  7.6  137  C   11.1   63  75    1.2    6.5    7.7  4  C
 6    446  8.2  156  C    9.9   36  79    1.3    7.9    2.9  4  C
 7    443  8.1  170  C    9.4   80 278    0.2    1.0    6.2  6  C
 8    441  9.0  195  C    6.9   49 233   -2.4   -1.2    5.5  2  C
 9    453  7.3  193  C    7.5   35 142   -4.4    4.7    2.1  3  C
10    465  5.3  144  C    6.8  -22 171   -6.0   -0.2   -2.6  2  C
11    474  3.8  136  C    5.4   17 142   -2.8    2.4   -0.0  4  C
12    475  3.7  154  C    5.3   19 128   -2.7    3.9   -0.2  2  C
13    497  3.8  158  C    5.7    7  98   -0.7    4.8   -1.6  1  C
14    456  4.0  127  C    5.8    2 125   -2.8    3.8   -1.5  3  C
15    444  3.4  123  C    6.9   -6 129   -4.0    4.4   -2.5  2  C
16    430  2.9  113  C    7.0  -13 134   -4.6    4.0   -3.0  1  C
17    433  2.7  144  C    7.2  -21 161   -6.2    1.4   -3.1  1  C
18    504  1.6  291  C    6.3   15  89    0.2    6.2    0.3  1  C
19    511  1.6  285  C    6.3   -9  95   -0.5    5.6   -1.9  2  C
20    448  1.4  176  C    7.1    9 109   -2.3    6.6    0.4  1  C
21    414  2.0   87  C    8.3   -6 139   -5.8    5.0   -1.3  3  C
22    409  1.8   73  C    8.6  -21 167   -7.8    1.6   -3.1  1  C
23    390  1.4   92  C    8.5    2 157   -7.8    3.4    0.2  1  C
24    391  1.4  114  C    8.4    9 157   -7.7    3.3    1.1  0  C

                     AUG. 1, 1979                                213

 1    388  0.5  114  C    9.5   -2 142   -7.4    5.8   -0.9  0  C
 2    387  0.5  131  C    9.6   -9 153   -8.4    4.1   -1.9  1  C
 3    410  0.5  104  C
 4    408  0.4   96  C    9.0    6 145   -7.3    5.2   -0.1  1  C
 5    422  0.5   94  C    8.6    9 155   -7.7    3.8    0.4  0  C
 6    410  0.7  123  C    8.6   10 149   -7.2    4.6    0.1  1  C
 7    451  0.7  120  C    8.2   26 154   -6.5    4.3    2.2  1  C
 8    453  0.9  137  C    7.9   26 152   -6.3    4.3    1.9  1  C
 9    470  1.2  148  C    7.6   32 144   -5.0    5.0    1.9  2  C
10    494  1.6  208  C    7.2   28 141   -4.6    4.7    1.2  2  C
11    569  2.3    0  C
12    530  2.8  109  C    5.8   24 134   -3.3    3.9    0.3  3  C
13    553  3.2    0  C
14    559  7.9  178  C   10.7    0 131   -6.3    6.6   -3.1  3  C
15    546  7.9  150  C   10.2   -6 137   -6.9    5.5   -3.4  3  C
16    532  7.8  118  C    9.0   48 121   -3.1    6.9    4.4  1  C
17    520  7.7   96  C    8.7   50 122   -2.5    5.4    4.4  4  C
18    506  6.7  103  C    8.8   -9 132   -5.4    5.6   -2.6  3  C
19    496  6.7  102  C    7.6   22 138   -4.7    4.7    1.8  3  C
20    504  6.4   95  C    7.6   -6 139   -2.1    5.8   -1.4  3  C
21    494  6.2   83  C    7.3  -41 107   -1.4    4.4   -4.7  2  C
22    477  5.9   91  C    7.9    5 127   -3.7    4.9    0.2  4  J
23    476  6.0   81  C    5.4  -32 151   -2.2    1.1   -1.7  4  J
24    470  6.0   92  C    4.3  -51 170   -2.4    0.2   -3.0  2  J
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  VEL  DEN TEMP/ PLS  AV B  GSE GSE  BXGSM  BYGSM  BZGSM SG IMF
           1000  SC   MAGN  LAT LON                           SC

                 JUL. 27, 1979                               208

  329 25.0   34  J   14.1  -57 344    7.1   -2.6  -11.3  4  J
  318 22.4   37  J   14.4  -37 336   10.2   -5.3   -8.0  3  J
  320 22.7   37  J   14.0  -14 348   11.6   -2.8   -2.6  7  J
  313 24.6   35  J   13.6   20 339   11.6   -3.6    5.2  3  J
  317 23.5   39  J   12.7   15 332   10.2   -4.6    4.2  4  J
  329 25.5   49  C    9.1   55  55    2.9    5.9    5.7  2  J
  330 25.3   45  C    0.0    0   0    0.0    0.0    0.0  0  J
  349 17.3   78  C   12.0   25 358   10.9    1.5    4.9  1  J
  341 15.4   71  J   11.9   41 330    7.4   -1.0    8.6  4  J
  335 17.2   69  J   10.6   37 302    4.2   -3.6    8.2  4  J
  329 16.7   81  C    8.2  -29 331    6.2   -4.8   -2.0  1  J
  331 17.5   92  C    9.0  -27 307   47.2  -74.0   -8.8  4  J
  344 27.0   49  C    7.8   64 194   -2.9    2.0    5.9  4  J
  337 19.7   53  C   10.7   13 129   -5.1    6.5   -0.8  7  J
  340 22.3   58  J   10.5   19 107   -2.8    9.9   -0.2  2  J
  344 33.3   51  J   10.3   80  40    1.0    3.2    7.0  7  J
  344 55.7   38  J    8.2  -18 290    1.4   -4.0   -0.3  8  J
  349 72.0   31  J    2.7  -49  48    0.7    0.6   -1.4  2  J
  351 61.0   29  J    3.8  -36 187   -2.9   -0.6   -2.0  1  J
  349 52.7   31  J    4.2  -18 166   -3.9    0.8   -1.4  1  J
  349 53.1   26  J    4.5  -27 151   -3.4    1.8   -2.1  1  J
  347 52.6   24  J    4.2  -29 145   -2.8    1.9   -2.0  2  J
  345 49.2   26  J    4.8  -27 187   -1.6   -0.2   -0.8  5  J
  345 29.9   37  J    5.5   -4 250   -0.9   -2.4   -0.1  5  J

                 JUL. 29, 1979                               210

  329 67.0   18  C    8.3   18 290    2.5   -6.9    2.9  3  C
  330 74.7   19  C    7.1    5 282    1.4   -6.5    1.2  2  C
  328 72.8   20  C    5.1    5 253   -1.3   -4.2    1.0  2  C
  326 66.7   19  C    5.7   12 224   -2.8   -2.5    1.3  4  C
  326 57.4   16  C    9.3   19 303    2.7   -3.6    2.6  8  C
  335 56.8   20  C   11.3   77 127   -1.1    3.7    7.2  8  C
  337 78.6   27  C    8.4   86 153   -0.3    1.9    5.0  7  C
  343 80.8   30  C    6.5   20 108   -1.7    5.5   -0.0  3  C
  343 82.6   30  C    8.0   22 282    1.3   -4.7    4.9  5  C
  341 37.5   61  C    9.5   -8 156   -4.7    1.6   -1.6  8  C
  347 17.9   50  C   15.0   26  99   -2.0   14.2   -0.0  4  C
  352 26.0   90  C   11.9   25 113   -3.9   10.1    0.2  4  C
  369 25.4   97  C   14.0   39 119   -3.1    7.2    2.3 11  C
  412 16.8   95  C   18.3   22 104   -3.8   16.4   -0.5  6  C
  431 15.3   84  C   14.9   66  96   -0.6    9.2    9.2  5  C
  431 16.0   66  C   16.8   16 104   -3.4   14.3   -0.5  7  C
  437 16.2   52  C   16.6    8 101   -3.1   15.3   -2.0  5  C
  419 13.7   88  C   12.7   21 124   -6.1    9.7    2.3  4  C
  450 10.0  107  C   12.2   10 123   -3.4    5.3    0.3 10  C
  436 14.6   64  C   13.3   56 360    6.0    0.9    8.8  8  C
  446 17.8   28  C   14.0   12 112   -5.1   12.7    2.0  2  C
  440 16.9   35  C   13.6    6 117   -5.6   11.0    0.8  6  C
  448 14.2   45  C   13.5   -3 127   -7.9   10.6   -1.2  2  C
  443 24.7   35  C    9.7   19 104   -1.9    7.7    2.3  5  C

                 JUL. 31, 1979                               212

  339  1.2  108  C    8.6   11 154   -7.5    3.9    1.3  0  C
  385  0.8   85  C    8.9    5 158   -8.2    3.4    0.4  1  C
  403  1.1  102  C    8.6    1 143   -6.8    5.1   -0.7  1  C
  382  1.6   65  C    8.6   10 151   -7.2    4.2    0.7  1  C
  413  1.2   66  C    8.7    0 135   -6.1    5.9   -1.6  1  C
  408  1.6   71  C    8.6   13 144   -6.4    4.9    0.3  3  C
  384  0.9   67  C    9.0   23 147   -6.6    5.2    1.7  2  C
  382  0.9   54  C
  290  1.9    0  C    9.3    4 140   -7.0    5.6   -1.8  1  C
  402  0.2   66  C
  355  0.2   22  C
  340  0.3   27  C    9.4   -4 138   -6.9    5.3   -3.5  1  C
  326  0.2   26  C    9.4    0 141   -7.3    5.3   -2.5  1  C
  316  0.2   12  C    9.4    4 144   -7.6    5.3   -1.7  0  C
  335  0.2   18  C
  327  0.2   48  C    9.4    0 145   -7.7    5.1   -1.8  1  C
  312  0.2   28  C    9.4   -1 147   -7.8    4.9   -1.6  1  C
  310  0.2   15  C    9.4   -4 149   -8.0    4.6   -1.7  1  C
  313  0.2   27  C
  361  0.3   65  C    9.5   -4 150   -8.1    4.7   -1.2  0  C
  347  0.4   46  C    9.5   -5 148   -8.0    4.9   -1.2  0  C
  356  0.3   61  C
  308  0.5   15  C
  337  0.5   82  C    9.4   -3 142   -7.4    5.8   -0.8  1  C

                 AUG. 2, 1979                                214

  465  6.9   97  J    4.3  -18 191   -3.8   -0.9   -1.2  1  J
  457  6.4   85  J    4.1    6 169   -3.3    0.7    0.3  2  J
  461  6.6   87  J    4.0  -74 150   -0.4   -0.0   -1.7  4  J
  452  6.3   99  J    3.9   29 150   -2.1    1.5    1.1  3  J
  452  6.0   98  J    3.9  -34 101   -0.5    2.0   -2.3  2  J
  446  5.9  125  J    3.8  -48 161   -1.9   -0.1   -2.3  2  J
  435  5.1  105  J    3.7   48 159   -2.1    1.6    2.0  1  J
  427  5.4  109  J    3.1   14 148   -1.7    1.2    0.0  2  J
  456  4.9   53  J    4.2  -66  52    1.0   -0.4   -3.9  1  J
  440  5.0   90  J    3.7  -40 103   -0.3    0.8   -1.8  3  J
  441  5.0   88  J    4.5   12 122   -2.0    3.2   -0.8  2  J
  450  5.2   70  J    4.0   -4 117   -1.3    2.2   -1.4  3  J
  451  5.0   68  J    5.0    4 118   -1.9    3.3   -1.3  3  J
  452  5.3   57  J    4.7    4 107   -1.3    4.0   -1.5  2  J
  448  5.3   75  J    4.6   15 132   -2.7    3.2   -0.2  2  J
  450  6.0   87  J    3.9  -46 124   -0.9    0.7   -2.1  3  J
  461  5.3   59  J    5.3   -9  82    0.6    4.1   -2.0  3  J
  466  5.5   69  J    5.1   10  90    0.0    4.0   -0.2  3  J
  456  6.7   71  J    4.2   14 232   -1.5   -1.8    0.9  4  J
  450  6.9   49  J    5.6   49 185   -3.4    0.2    3.9  2  J
  442  7.0   55  J    5.4   39 181   -4.0    0.2    3.3  1  J
  442  7.3   56  J    5.0   45 178   -3.4    0.4    3.4  1  J
  449  7.3   42  J    5.0   59 186   -2.4    0.0    4.0  2  J
  444  6.7   41  J    5.3   39 220   -2.8   -2.1    3.1  2  J
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# 08/03/79 – 08/10/79

## AUG. 3, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 436 | 6.6 | 64 | J | 5.4 | 17 | 197 | -4.4 | -1.2 | 1.5 | 3 | J |
| 2 | 427 | 5.3 | 62 | C | 4.9 | 3 | 164 | -4.1 | 1.2 | 0.1 | 2 | C |
| 3 | 411 | 5.5 | 82 | A | | | | | | | | |
| 4 | 450 | 5.7 | 44 | J | 5.7 | -26 | 117 | -2.2 | 3.8 | -3.3 | 1 | J |
| 5 | 425 | 5.5 | 50 | J | 5.7 | 5 | 143 | -4.0 | 3.0 | -0.4 | 3 | J |
| 6 | 444 | 5.2 | 63 | J | 5.6 | -15 | 122 | -2.5 | 3.4 | -2.4 | 3 | J |
| 7 | 435 | 4.8 | 57 | J | 5.6 | -3 | 144 | -4.0 | 2.6 | -1.3 | 3 | J |
| 8 | 436 | 5.3 | 97 | J | 5.6 | -24 | 148 | -3.9 | 1.4 | -2.8 | 2 | J |
| 9 | 445 | 4.0 | 79 | J | 5.7 | 6 | 142 | -3.5 | 2.7 | -0.8 | 4 | J |
| 10 | 445 | 3.1 | 79 | J | 6.0 | -1 | 146 | -4.5 | 2.6 | -1.5 | 3 | J |
| 11 | 471 | 3.1 | 48 | J | 6.1 | -18 | 124 | -2.9 | 3.0 | -3.5 | 3 | J |
| 12 | 470 | 3.0 | 51 | J | 5.8 | -6 | 128 | -3.4 | 3.5 | -2.5 | 2 | J |
| 13 | 451 | 2.8 | 38 | J | 5.4 | 2 | 153 | -4.5 | 2.1 | -0.9 | 2 | J |
| 14 | 464 | 3.1 | 39 | J | 6.1 | -18 | 143 | -4.5 | 2.3 | -3.2 | 1 | C |
| 15 | 490 | 3.3 | 70 | J | 5.7 | -3 | 131 | -3.3 | 3.4 | -1.7 | 2 | J |
| 16 | 471 | 3.0 | 41 | J | 5.5 | -1 | 127 | -3.1 | 3.8 | -1.5 | 2 | J |
| 17 | 480 | 2.8 | 45 | J | 5.3 | -7 | 136 | -3.5 | 3.1 | -1.5 | 2 | J |
| 18 | 459 | 2.7 | 36 | J | 5.3 | 35 | 140 | -3.2 | 3.3 | 2.2 | 1 | J |
| 19 | 467 | 2.7 | 49 | J | 5.3 | 50 | 187 | -2.7 | 0.3 | 3.2 | 3 | J |
| 20 | 457 | 2.5 | 43 | J | 5.3 | 19 | 161 | -4.4 | 1.7 | 1.4 | 2 | J |
| 21 | 456 | 2.6 | 37 | J | 5.3 | -11 | 152 | -4.3 | 2.2 | -1.2 | 2 | J |
| 22 | 461 | 2.9 | 40 | J | 5.6 | -32 | 150 | -4.0 | 2.1 | -3.0 | 1 | J |
| 23 | 458 | 2.8 | 41 | J | 5.3 | -24 | 150 | -3.9 | 2.1 | -2.1 | 2 | J |
| 24 | 454 | 2.6 | 48 | J | 5.4 | -23 | 137 | -3.4 | 3.0 | -2.2 | 2 | J |

## AUG. 5, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 430 | 4.0 | 55 | J | 5.8 | 59 | 159 | -2.5 | 1.4 | 4.3 | 3 | J |
| 2 | 428 | 3.5 | 47 | J | 5.7 | 44 | 168 | -2.8 | 1.0 | 2.7 | 4 | J |
| 3 | 410 | 3.0 | 41 | J | 5.7 | 1 | 191 | -5.2 | -1.0 | 0.3 | 2 | J |
| 4 | 414 | 3.5 | 41 | J | 6.4 | -27 | 163 | -4.7 | 0.8 | -2.8 | 3 | J |
| 5 | 421 | 3.7 | 37 | J | 6.8 | -22 | 131 | -4.0 | 3.8 | -3.6 | 1 | J |
| 6 | 403 | 3.7 | 39 | J | 7.0 | -8 | 146 | -5.7 | 3.3 | -2.1 | 1 | J |
| 7 | 391 | 3.8 | 57 | J | 6.7 | 7 | 159 | -6.1 | 2.5 | -0.1 | 1 | J |
| 8 | 383 | 3.9 | 32 | J | 7.2 | 9 | 159 | -6.5 | 2.7 | -0.0 | 1 | J |
| 9 | 386 | 4.2 | 52 | J | 7.2 | 34 | 181 | -5.7 | 1.6 | 3.5 | 2 | J |
| 10 | 388 | 4.2 | 31 | J | 7.7 | -5 | 154 | -6.7 | 2.6 | -2.1 | 2 | J |
| 11 | 378 | 4.6 | 28 | J | 7.5 | 19 | 162 | -6.7 | 3.1 | 1.1 | 1 | J |
| 12 | 375 | 4.3 | 31 | J | 7.4 | 31 | 176 | -6.2 | 2.1 | 3.1 | 2 | J |
| 13 | 380 | 5.1 | 33 | J | 7.3 | 44 | 172 | -5.1 | 2.9 | 4.0 | 2 | J |
| 14 | 396 | 5.4 | 24 | J | 6.8 | 72 | 196 | -2.0 | 2.2 | 5.9 | 2 | J |
| 15 | 380 | 5.9 | 27 | J | 6.5 | 40 | 150 | -4.0 | 3.7 | 2.7 | 2 | J |
| 16 | 381 | 6.5 | 26 | J | 6.4 | 10 | 131 | -3.3 | 3.9 | -0.5 | 4 | J |
| 17 | 357 | 6.7 | 23 | C | 6.6 | 16 | 153 | -5.3 | 3.1 | 0.8 | 2 | C |
| 18 | 370 | 6.6 | 28 | C | 6.7 | -4 | 125 | -3.7 | 5.1 | -1.8 | 1 | C |
| 19 | 371 | 5.9 | 26 | C | 7.2 | -22 | 129 | -4.1 | 4.5 | -3.5 | 1 | C |
| 20 | 358 | 5.5 | 28 | C | 7.5 | -39 | 154 | -5.1 | 1.8 | -4.9 | 1 | C |
| 21 | 382 | 6.4 | 44 | J | 6.6 | -56 | 151 | -3.0 | 1.1 | -5.2 | 2 | J |
| 22 | 391 | 7.3 | 48 | J | 8.1 | 11 | 137 | -4.8 | 4.6 | 0.9 | 5 | J |
| 23 | 423 | 7.5 | 72 | J | 9.5 | -10 | 120 | -4.3 | 7.3 | -2.1 | 4 | J |
| 24 | 415 | 8.2 | 67 | J | 9.7 | 36 | 153 | -5.6 | 3.2 | 4.3 | 6 | J |

## AUG. 7, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 3.4 | 92 | J | 5.8 | -2 | 128 | -3.6 | 4.5 | -0.7 | 1 | J |
| 2 | 417 | 3.3 | 39 | J | 5.4 | -7 | 129 | -3.3 | 4.0 | -1.2 | 1 | J |
| 3 | 411 | 5.0 | 31 | J | 5.5 | -7 | 118 | -2.4 | 4.4 | -1.5 | 2 | J |
| 4 | 400 | 4.5 | 19 | J | 5.9 | -21 | 121 | -2.8 | 4.1 | -3.1 | 0 | J |
| 5 | 387 | 5.3 | 38 | C | 6.2 | -29 | 140 | -3.8 | 2.3 | -3.6 | 2 | C |
| 6 | 411 | 6.7 | 42 | J | 6.4 | -61 | 192 | -3.0 | -2.4 | -5.1 | 1 | J |
| 7 | 407 | 5.9 | 43 | J | 6.0 | -47 | 206 | -3.4 | -3.0 | -3.1 | 2 | J |
| 8 | 372 | 5.2 | 26 | J | 6.4 | -4 | 157 | -5.7 | 2.0 | -1.4 | 1 | J |
| 9 | 374 | 4.8 | 30 | J | 6.0 | 2 | 180 | -5.9 | 0.1 | 0.2 | 1 | J |
| 10 | 368 | 5.3 | 21 | J | 6.1 | -9 | 189 | -5.6 | -1.2 | -0.4 | 2 | J |
| 11 | 383 | 5.2 | 35 | J | 7.1 | -63 | 146 | -2.3 | -1.3 | -5.5 | 4 | J |
| 12 | 388 | 5.4 | 34 | C | 6.7 | -45 | 180 | -4.7 | -2.2 | -4.1 | 1 | J |
| 13 | 385 | 5.0 | 24 | J | 7.0 | -50 | 180 | -4.4 | -2.5 | -4.7 | 1 | J |
| 14 | 379 | 5.1 | 23 | J | 7.1 | -49 | 192 | -4.4 | -3.2 | -4.2 | 2 | J |
| 15 | 376 | 6.3 | 19 | J | 6.9 | -32 | 186 | -5.7 | -2.0 | -3.0 | 2 | J |
| 16 | 375 | 5.8 | 36 | J | 6.9 | -32 | 206 | -4.8 | -3.4 | -2.3 | 3 | J |
| 17 | 363 | 5.7 | 55 | J | 7.0 | -22 | 200 | -5.9 | -2.8 | -1.8 | 2 | J |
| 18 | 376 | 6.7 | 23 | J | 7.3 | -30 | 189 | -6.2 | -1.9 | -3.3 | 1 | J |
| 19 | 359 | 6.1 | 30 | C | 6.6 | -39 | 216 | -4.0 | -3.6 | -3.3 | 2 | J |
| 20 | 359 | 7.4 | 24 | C | 7.2 | -50 | 222 | -3.3 | -3.8 | -4.8 | 2 | C |
| 21 | 358 | 8.5 | 22 | C | 7.5 | -39 | 251 | -1.8 | -5.9 | -4.0 | 1 | C |
| 22 | 352 | 9.2 | 25 | C | 6.8 | -23 | 252 | -1.8 | -5.6 | -1.9 | 3 | J |
| 23 | 355 | 8.2 | 34 | J | 6.4 | -18 | 232 | -3.4 | -4.5 | -1.4 | 3 | J |
| 24 | 346 | 7.4 | 32 | J | 6.3 | -29 | 189 | -5.2 | -1.1 | -2.8 | 2 | J |

## AUG. 9, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 6.9 | 48 | J | 5.6 | 0 | 158 | -4.5 | 1.8 | -0.2 | 3 | J |
| 2 | 376 | 7.5 | 48 | J | 5.9 | -1 | 145 | -4.7 | 3.2 | -0.6 | 2 | J |
| 3 | 379 | 6.8 | 50 | J | 5.8 | -6 | 139 | -3.9 | 3.2 | -1.2 | 2 | J |
| 4 | 376 | 6.9 | 36 | J | 6.0 | -26 | 168 | -4.9 | 0.4 | -2.6 | 2 | J |
| 5 | 378 | 5.9 | 40 | J | 6.1 | 3 | 142 | -4.0 | 3.1 | -0.6 | 3 | J |
| 6 | 398 | 6.8 | 57 | J | | | | | | | | |
| 7 | 414 | 6.7 | 55 | J | 5.7 | 33 | 39 | 3.4 | 3.6 | 1.6 | 2 | J |
| 8 | 381 | 6.2 | 106 | A | 5.8 | 0 | 156 | -4.8 | 2.0 | -0.9 | 2 | J |
| 9 | 410 | 6.9 | 103 | J | 5.2 | 40 | 66 | 0.8 | 2.5 | 0.7 | 4 | J |
| 10 | 380 | 6.1 | 117 | J | 5.4 | 2 | 154 | -4.9 | 2.2 | -1.0 | 0 | J |
| 11 | 407 | 6.4 | 76 | J | 5.3 | 10 | 130 | -3.2 | 3.8 | -1.1 | 1 | J |
| 12 | 408 | 6.8 | 113 | J | 4.9 | 0 | 141 | -3.7 | 2.6 | -1.5 | 1 | J |
| 13 | 447 | 4.3 | 65 | C | 4.9 | 49 | 55 | 0.8 | 1.8 | 0.9 | 5 | J |
| 14 | 444 | 4.6 | 68 | C | 5.0 | 11 | 40 | 2.1 | 1.8 | -0.3 | 4 | J |
| 15 | 406 | 5.3 | 69 | C | 4.8 | 21 | 63 | 1.8 | 3.9 | -0.1 | 2 | J |
| 16 | 394 | 5.0 | 65 | C | 5.0 | -35 | 105 | -1.0 | 2.5 | -4.0 | 1 | J |
| 17 | 391 | 4.4 | 56 | C | 4.8 | -30 | 116 | -1.7 | 2.7 | -3.3 | 1 | J |
| 18 | 378 | 4.9 | 56 | C | 4.1 | -15 | 125 | -2.3 | 2.8 | -1.8 | 0 | C |
| 19 | 376 | 5.1 | 50 | C | 4.0 | -23 | 111 | -1.2 | 2.8 | -2.1 | 1 | C |
| 20 | 367 | 5.1 | 47 | C | 4.1 | -6 | 130 | -2.1 | 2.4 | -0.8 | 2 | C |
| 21 | 357 | 5.5 | 37 | C | 4.2 | 30 | 195 | -3.2 | -0.6 | 2.0 | 1 | C |
| 22 | 357 | 5.4 | 37 | C | 4.0 | 35 | 204 | -2.9 | -1.1 | 2.4 | 1 | C |
| 23 | 353 | 5.2 | 33 | C | 4.3 | -2 | 152 | -3.5 | 1.9 | -0.4 | 1 | C |
| 24 | 350 | 5.3 | 35 | C | 4.5 | -7 | 149 | -3.9 | 2.2 | -0.8 | 0 | C |

## AUG. 4, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 471 | 3.1 | 52 | J | 5.5 | -30 | 115 | -1.9 | 3.9 | -3.1 | 1 | C |
| 2 | 469 | 2.7 | 42 | J | 5.5 | -44 | 146 | -3.1 | 1.6 | -3.9 | 2 | J |
| 3 | 470 | 2.6 | 41 | J | 5.4 | -32 | 134 | -2.9 | 2.6 | -3.1 | 2 | J |
| 4 | 434 | 2.6 | 59 | C | 5.6 | -31 | 135 | -3.3 | 2.6 | -3.4 | 2 | J |
| 5 | 448 | 2.4 | 44 | J | 5.5 | -25 | 133 | -3.3 | 2.8 | -3.1 | 1 | J |
| 6 | 455 | 2.3 | 39 | J | 5.8 | -26 | 130 | -3.3 | 2.9 | -3.6 | 1 | J |
| 7 | 449 | 2.5 | 48 | J | 6.0 | -17 | 134 | -3.4 | 2.7 | -2.7 | 3 | J |
| 8 | 429 | 2.5 | 36 | J | 5.9 | -16 | 136 | -3.8 | 2.8 | -2.9 | 2 | J |
| 9 | 425 | 2.5 | 32 | J | 5.9 | -17 | 133 | -3.7 | 2.9 | -3.2 | 2 | J |
| 10 | 403 | 2.0 | 22 | J | 6.1 | -5 | 118 | -2.7 | 4.2 | -2.7 | 2 | J |
| 11 | 418 | 2.8 | 31 | J | 6.3 | 1 | 129 | -3.8 | 4.2 | -2.1 | 1 | J |
| 12 | 430 | 2.7 | 38 | J | 6.3 | -56 | 144 | -2.7 | -0.6 | -5.2 | 2 | J |
| 13 | 441 | 2.8 | 34 | J | 6.1 | -66 | 131 | -1.6 | -0.9 | -5.6 | 1 | J |
| 14 | 421 | 2.7 | 27 | J | 5.7 | -33 | 133 | -3.0 | 1.7 | -4.0 | 2 | J |
| 15 | 422 | 2.9 | 46 | J | 4.9 | 8 | 152 | -3.1 | 1.7 | -0.2 | 4 | J |
| 16 | 406 | 2.9 | 25 | J | 5.8 | 5 | 177 | -5.6 | 0.4 | 0.4 | 2 | J |
| 17 | 405 | 3.1 | 36 | J | 5.9 | -8 | 160 | -5.1 | 1.6 | -1.3 | 2 | J |
| 18 | 421 | 3.3 | 46 | J | 5.5 | -38 | 166 | -3.8 | 0.2 | -3.2 | 2 | J |
| 19 | 432 | 3.7 | 62 | J | 5.6 | -59 | 173 | -2.6 | -0.5 | -4.4 | 2 | J |
| 20 | 425 | 3.6 | 56 | J | 5.4 | -40 | 178 | -3.0 | -0.2 | -2.5 | 4 | J |
| 21 | 404 | 3.4 | 52 | J | 5.9 | -3 | 187 | -5.1 | -0.6 | -0.2 | 3 | J |
| 22 | 411 | 3.5 | 45 | J | 5.7 | 23 | 188 | -4.2 | -0.4 | 1.8 | 3 | J |
| 23 | 418 | 4.0 | 43 | J | 5.8 | 32 | 139 | -3.6 | 3.3 | 2.7 | 2 | J |
| 24 | 424 | 3.8 | 46 | J | 5.8 | 40 | 142 | -3.0 | 2.6 | 2.9 | 3 | J |

## AUG. 6, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 7.6 | 55 | J | 9.9 | 45 | 184 | -6.8 | 0.3 | 6.9 | 2 | J |
| 2 | 444 | 8.8 | 125 | J | 9.3 | 27 | 122 | -2.6 | 4.5 | 1.9 | 8 | J |
| 3 | 445 | 10.5 | 124 | J | 11.1 | 58 | 122 | -2.7 | 5.7 | 7.2 | 5 | J |
| 4 | 441 | 7.3 | 117 | C | 9.0 | -25 | 87 | 0.4 | 5.9 | -4.6 | 5 | J |
| 5 | 439 | 6.4 | 0 | C | 8.7 | 43 | 103 | -1.3 | 6.6 | 3.5 | 4 | J |
| 6 | 437 | 5.2 | 99 | C | 9.6 | 68 | 118 | -1.7 | 5.8 | 7.2 | 2 | J |
| 7 | 459 | 5.6 | 96 | J | 8.9 | -41 | 142 | -3.7 | 1.2 | -4.9 | 6 | J |
| 8 | 446 | 6.5 | 156 | J | 9.6 | -39 | 112 | -2.5 | 3.4 | -7.5 | 4 | J |
| 9 | 438 | 6.3 | 180 | J | 9.0 | 46 | 131 | -3.6 | 6.2 | 3.2 | 4 | J |
| 10 | 446 | 5.4 | 160 | J | 9.3 | -24 | 126 | -4.2 | 3.6 | -5.5 | 5 | J |
| 11 | 468 | 4.2 | 111 | J | 9.8 | -14 | 119 | -4.3 | 5.8 | -5.7 | 3 | J |
| 12 | 496 | 4.6 | 139 | J | 9.5 | -10 | 104 | -2.0 | 6.4 | -5.2 | 4 | J |
| 13 | 484 | 4.2 | 165 | C | 8.3 | -8 | 117 | -3.2 | 5.2 | -3.8 | 4 | J |
| 14 | 475 | 4.7 | 145 | J | 7.8 | 2 | 114 | -2.4 | 4.9 | -2.2 | 5 | J |
| 15 | 498 | 4.9 | 196 | J | 7.5 | -2 | 112 | -2.2 | 5.0 | -2.4 | 4 | J |
| 16 | 500 | 4.8 | 162 | J | 7.4 | 6 | 103 | -1.4 | 5.9 | -1.6 | 4 | J |
| 17 | 486 | 4.6 | 146 | J | 7.2 | 0 | 118 | -2.5 | 4.5 | -1.4 | 5 | J |
| 18 | 482 | 4.6 | 106 | J | 6.7 | 47 | 122 | -2.0 | 4.1 | 3.1 | 4 | J |
| 19 | 456 | 4.0 | 66 | J | 6.1 | 2 | 171 | -5.4 | 0.9 | 0.0 | 3 | J |
| 20 | 463 | 4.0 | 76 | J | 5.9 | -8 | 138 | -4.0 | 3.4 | -1.3 | 2 | J |
| 21 | 457 | 4.0 | 55 | J | 5.6 | -9 | 160 | -4.7 | 1.6 | -1.0 | 2 | J |
| 22 | 456 | 3.8 | 63 | J | 5.7 | 0 | 134 | -3.8 | 3.9 | -0.4 | 2 | J |
| 23 | 450 | 3.5 | 65 | J | 5.7 | 0 | 135 | -3.9 | 3.9 | -0.3 | 1 | J |
| 24 | 421 | 3.0 | 91 | J | 5.8 | -16 | 142 | -4.4 | 3.3 | -1.9 | 1 | J |

## AUG. 8, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 349 | 7.4 | 35 | J | 7.0 | -32 | 179 | -5.7 | -0.3 | -3.5 | 2 | J |
| 2 | 343 | 7.1 | 37 | J | 6.5 | -17 | 213 | -5.1 | -3.5 | -1.3 | 2 | J |
| 3 | 342 | 6.5 | 30 | J | 6.5 | -24 | 203 | -5.1 | -2.6 | -2.0 | 2 | J |
| 4 | 356 | 7.4 | 48 | J | 6.1 | -37 | 161 | -3.9 | 0.6 | -3.3 | 3 | J |
| 5 | 338 | 6.1 | 31 | J | 6.3 | -10 | 223 | -3.2 | -3.1 | 0.1 | 4 | J |
| 6 | 342 | 6.0 | 38 | J | 5.9 | -6 | 201 | -5.1 | -2.0 | 0.1 | 2 | J |
| 7 | 341 | 6.1 | 33 | J | 6.0 | 2 | 179 | -5.6 | 0.2 | 0.1 | 2 | J |
| 8 | 339 | 8.0 | 44 | J | 6.8 | -19 | 181 | -6.4 | -1.0 | -2.0 | 1 | J |
| 9 | 343 | 8.2 | 36 | J | 7.0 | -26 | 177 | -6.2 | -1.1 | -2.8 | 1 | J |
| 10 | 342 | 7.3 | 34 | J | 6.7 | -32 | 185 | -5.7 | -2.1 | -2.9 | 0 | J |
| 11 | 340 | 7.6 | 34 | J | 6.7 | -25 | 194 | -5.8 | -2.6 | -1.7 | 1 | J |
| 12 | 334 | 6.7 | 41 | J | 6.3 | 3 | 189 | -6.1 | -0.7 | 0.8 | 1 | J |
| 13 | 326 | 8.7 | 41 | C | 5.9 | -2 | 188 | -5.7 | -0.8 | 0.2 | 1 | J |
| 14 | 328 | 8.8 | 40 | C | 6.7 | 7 | 165 | -6.4 | 1.9 | -0.0 | 1 | C |
| 15 | 336 | 7.6 | 38 | J | 6.4 | -14 | 177 | -6.1 | -0.3 | -1.5 | 1 | J |
| 16 | 342 | 8.0 | 41 | J | 7.0 | -21 | 174 | -6.4 | -0.3 | -2.5 | 1 | J |
| 17 | 339 | 8.7 | 45 | C | 6.9 | -31 | 172 | -5.8 | -0.3 | -3.6 | 1 | J |
| 18 | 348 | 7.9 | 29 | J | 6.5 | -53 | 175 | -3.8 | -1.0 | -4.9 | 2 | J |
| 19 | 334 | 6.6 | 31 | J | 6.3 | -10 | 178 | -5.9 | -0.0 | -1.1 | 2 | J |
| 20 | 339 | 7.4 | 38 | J | 6.1 | 10 | 153 | -4.7 | 2.5 | 0.5 | 3 | J |
| 21 | 364 | 6.8 | 45 | J | 5.8 | 46 | 107 | -1.0 | 3.5 | 3.0 | 3 | J |
| 22 | 378 | 6.8 | 39 | J | 6.2 | -28 | 171 | -5.2 | 0.5 | -2.9 | 1 | J |
| 23 | 373 | 7.0 | 40 | J | 6.3 | -21 | 174 | -5.8 | 0.4 | -2.3 | 1 | J |
| 24 | 374 | 6.6 | 48 | J | 6.0 | 6 | 143 | -4.3 | 3.3 | 0.2 | 2 | J |

## AUG. 10, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 348 | 5.6 | 33 | C | 4.6 | -10 | 152 | -4.0 | 2.0 | -1.0 | 0 | C |
| 2 | 342 | 6.3 | 32 | C | 4.5 | -6 | 149 | -3.8 | 2.2 | -0.8 | 1 | C |
| 3 | 339 | 6.7 | 32 | C | 4.6 | -12 | 144 | -3.6 | 2.4 | -1.5 | 0 | C |
| 4 | 339 | 7.2 | 33 | C | 4.7 | -3 | 143 | -3.6 | 2.6 | -0.9 | 1 | C |
| 5 | 340 | 6.1 | 35 | C | 4.9 | -17 | 158 | -4.3 | 1.3 | -1.8 | 1 | C |
| 6 | 352 | 5.9 | 39 | C | 4.7 | -15 | 125 | -2.6 | 3.0 | -2.4 | 1 | C |
| 7 | 339 | 5.9 | 39 | C | 4.9 | -8 | 140 | -3.5 | 2.5 | -1.7 | 1 | C |
| 8 | 354 | 5.5 | 0 | C | | | | | | | | |
| 9 | 339 | 6.7 | 30 | C | 5.2 | -18 | 125 | -3.0 | 2.7 | -3.1 | 1 | C |
| 10 | 354 | 6.7 | 36 | C | 5.6 | -8 | 102 | -1.0 | 3.8 | -2.9 | 2 | C |
| 11 | 355 | 5.0 | 52 | C | 6.4 | -19 | 124 | -3.3 | 3.3 | -4.3 | 1 | C |
| 12 | 358 | 5.3 | 53 | C | 6.6 | -17 | 120 | -3.2 | 3.8 | -4.3 | 1 | C |
| 13 | 345 | 6.9 | 47 | C | 6.6 | -11 | 116 | -2.8 | 4.5 | -3.9 | 0 | C |
| 14 | 349 | 8.1 | 28 | C | 6.9 | 7 | 108 | -2.1 | 6.1 | -2.2 | 1 | C |
| 15 | 351 | 11.3 | 24 | C | 6.9 | 24 | 95 | -0.5 | 6.5 | -0.1 | 2 | C |
| 16 | 350 | 11.8 | 21 | C | 7.6 | 8 | 97 | -0.9 | 7.1 | -1.7 | 1 | C |
| 17 | 349 | 16.7 | 17 | C | 7.3 | 7 | 100 | -1.2 | 6.9 | -1.4 | 1 | C |
| 18 | 339 | 19.0 | 15 | C | 7.7 | -1 | 116 | -3.4 | 6.6 | -1.9 | 1 | C |
| 19 | 343 | 17.3 | 0 | C | 7.5 | 15 | 113 | -2.9 | 6.9 | 0.5 | 1 | C |
| 20 | | | | | | | | | | | | |
| 21 | 349 | 5.9 | 0 | C | | | | | | | | |
| 22 | 373 | 5.0 | 85 | C | 9.6 | -11 | 294 | 3.8 | -8.7 | -0.9 | 1 | C |
| 23 | 370 | 5.0 | 92 | C | 9.3 | 1 | 303 | 5.0 | -7.6 | 0.9 | 2 | C |
| 24 | 368 | 5.7 | 81 | C | 8.9 | 11 | 306 | 5.1 | -6.6 | 2.4 | 2 | C |

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### AUG. 11, 1979

223

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 379 | 6.1 | 73 | C | 8.9 | -25 | 330 | 3.1 | -5.7 | -2.2 | 5 | C |
| 2 | 374 | 6.1 | 66 | C | 8.9 | 1 | 289 | 2.8 | -8.2 | 1.5 | 1 | C |
| 3 | 370 | 6.4 | 71 | C | 8.7 | 2 | 288 | 2.6 | -7.7 | 1.8 | 2 | C |
| 4 | 381 | 6.5 | 81 | C | 8.5 | 2 | 287 | 2.2 | -6.7 | 2.0 | 4 | C |
| 5 | 373 | 6.4 | 91 | C | 8.3 | 12 | 286 | 2.1 | -6.2 | 3.6 | 3 | C |
| 6 | 375 | 6.7 | 106 | C | 7.2 | -2 | 299 | 2.8 | -4.8 | 1.6 | 4 | C |
| 7 | 382 | 6.6 | 107 | C | 7.8 | -27 | 273 | 0.3 | -7.0 | -0.5 | 3 | C |
| 8 | 390 | 6.1 | 89 | C | 7.9 | -8 | 279 | 1.2 | -7.3 | 2.3 | 1 | C |
| 9 | 393 | 5.9 | 91 | C | 8.1 | 15 | 269 | -0.1 | -5.4 | 4.9 | 3 | C |
| 10 | 381 | 6.4 | 83 | C | 8.4 | -11 | 284 | 1.9 | -7.2 | 2.3 | 3 | C |
| 11 | 386 | 6.3 | 82 | C | 8.4 | -12 | 272 | 0.3 | -7.5 | 2.4 | 2 | C |
| 12 | 387 | 6.7 | 112 | C | 7.7 | -28 | 282 | 1.0 | -5.7 | 0.1 | 4 | C |
| 13 | 391 | 5.7 | 113 | C | 7.5 | -37 | 269 | -0.0 | -5.3 | -0.8 | 5 | C |
| 14 | 401 | 5.5 | 125 | C | 7.2 | -30 | 275 | 0.5 | -5.9 | -0.3 | 3 | C |
| 15 | 380 | 5.6 | 121 | C | 6.0 | -25 | 310 | 2.9 | -4.0 | -0.5 | 3 | C |
| 16 | 375 | 5.5 | 112 | C | 5.3 | 17 | 339 | 3.5 | -0.8 | 1.5 | 3 | C |
| 17 | 395 | 5.1 | 112 | C | 5.5 | -33 | 296 | 1.5 | -3.7 | -1.1 | 3 | C |
| 18 | 397 | 5.0 | 124 | C | 5.3 | -12 | 330 | 2.8 | -1.8 | -0.3 | 3 | C |
| 19 | 419 | 6.4 | 157 | C | 6.7 | 36 | 318 | 2.8 | -2.8 | 4.0 | 3 | C |
| 20 | 445 | 7.6 | 192 | C | 9.3 | -1 | 282 | 1.4 | -6.2 | 0.9 | 6 | C |
| 21 | 442 | 7.5 | 172 | C | 9.4 | -35 | 285 | 1.5 | -6.2 | -3.2 | 5 | C |
| 22 | 437 | 7.5 | 144 | C | 8.9 | -46 | 313 | 2.9 | -5.1 | -5.0 | 4 | C |
| 23 | 429 | 7.5 | 139 | C | 8.6 | -47 | 324 | 4.6 | -4.0 | -5.7 | 1 | C |
| 24 | 407 | 7.3 | 127 | C | 8.0 | -40 | 341 | 5.8 | -2.6 | -4.8 | 1 | C |

### AUG. 12, 1979

224

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 5.7 | 123 | C | 8.5 | -43 | 341 | 5.6 | -2.6 | -5.2 | 2 | C |
| 2 | 458 | 4.0 | 142 | C | 9.0 | -17 | 229 | -5.2 | -6.3 | -1.3 | 3 | C |
| 3 | 500 | 4.3 | 127 | C | 8.9 | 34 | 202 | -5.9 | -1.4 | 4.8 | 4 | C |
| 4 | 473 | 5.5 | 117 | C | 8.4 | 48 | 234 | -3.0 | -2.6 | 6.4 | 3 | C |
| 5 | 452 | 4.9 | 104 | C | 9.4 | -4 | 236 | -5.0 | -7.2 | 1.6 | 3 | C |
| 6 | 455 | 5.1 | 98 | C | 9.2 | 36 | 228 | -4.4 | -2.9 | 6.1 | 4 | C |
| 7 | 446 | 3.6 | 108 | C | 8.1 | 75 | 151 | -1.7 | 3.9 | 6.5 | 2 | C |
| 8 | 460 | 4.6 | 86 | C | 7.9 | -45 | 249 | -1.9 | -6.6 | -2.6 | 2 | C |
| 9 | 485 | 3.8 | 77 | C | 7.8 | 19 | 225 | -4.5 | -3.0 | 4.1 | 4 | C |
| 10 | 441 | 5.2 | 68 | C | 6.8 | -48 | 249 | -1.6 | -6.0 | -2.2 | 2 | C |
| 11 | 473 | 8.4 | 32 | C | 6.4 | 63 | 169 | -1.7 | 2.0 | 2.7 | 5 | C |
| 12 | 474 | 8.7 | 23 | C | 6.8 | 73 | 147 | -1.7 | 4.1 | 5.0 | 1 | C |
| 13 | 470 | 8.6 | 28 | C | 6.8 | 49 | 197 | -3.6 | 1.2 | 4.3 | 4 | C |
| 14 | 464 | 3.8 | 41 | C | 8.4 | 4 | 215 | -6.8 | -4.0 | 2.7 | 1 | C |
| 15 | 453 | 4.8 | 50 | C | 8.7 | 14 | 221 | -6.3 | -4.0 | 4.3 | 1 | C |
| 16 | 451 | 5.2 | 38 | C | 9.3 | 16 | 220 | -6.8 | -4.3 | 4.6 | 1 | C |
| 17 | 447 | 7.8 | 36 | C | 9.6 | -1 | 210 | -8.2 | -4.4 | 1.4 | 2 | C |
| 18 | 449 | 10.3 | 43 | C | 10.2 | 2 | 225 | -7.0 | -6.6 | 2.3 | 2 | C |
| 19 | 458 | 12.8 | 52 | C | 10.0 | -8 | 229 | -6.5 | -7.5 | 0.3 | 1 | C |
| 20 | 454 | 25.3 | 39 | C | 9.1 | -41 | 257 | -1.5 | -7.4 | -4.6 | 2 | C |
| 21 | 446 | 32.4 | 40 | C | 10.6 | -15 | 241 | -4.5 | -8.6 | -1.3 | 4 | C |
| 22 | 432 | 20.7 | 55 | C | 11.9 | -11 | 240 | -5.2 | -9.2 | -0.8 | 5 | C |
| 23 | 425 | 17.7 | 44 | C | 14.2 | -32 | 264 | -1.3 | -12.3 | -5.9 | 4 | C |
| 24 | 431 | 21.1 | 53 | C | 14.8 | -2 | 268 | -0.4 | -13.7 | 1.2 | 5 | C |

### AUG. 13, 1979

225

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 435 | 19.0 | 40 | C | 16.4 | 24 | 254 | -3.8 | -12.0 | 7.9 | 7 | C |
| 2 | 427 | 22.3 | 32 | C | 15.3 | 45 | 228 | -7.1 | -6.0 | 11.9 | 2 | C |
| 3 | 420 | 24.1 | 30 | C | 14.4 | 32 | 224 | -8.4 | -6.4 | 8.8 | 4 | C |
| 4 | 422 | 24.5 | 28 | C | 15.0 | 21 | 226 | -9.8 | -8.2 | 7.7 | 1 | C |
| 5 | 419 | 22.3 | 30 | C | 14.9 | 26 | 224 | -9.6 | -6.8 | 8.9 | 2 | C |
| 6 | 413 | 20.9 | 32 | C | 14.9 | 28 | 226 | -8.9 | -6.1 | 9.5 | 3 | C |
| 7 | 403 | 21.0 | 22 | C | 14.9 | 10 | 241 | -6.8 | -10.2 | 7.2 | 4 | C |
| 8 | 483 | 13.2 | 0 | C | 22.5 | -4 | 263 | -2.9 | -20.6 | 8.3 | 2 | C |
| 9 | 520 | 13.3 | 189 | C | 23.8 | -16 | 266 | -1.4 | -22.5 | 4.7 | 5 | C |
| 10 | 531 | 10.2 | 228 | C | 22.7 | 2 | 266 | -1.5 | -17.4 | 10.8 | 8 | C |
| 11 | 510 | 13.8 | 0 | C | 24.4 | 11 | 265 | -1.9 | -17.9 | 15.7 | 0 | C |
| 12 | 553 | 8.8 | 375 | C | 25.1 | -20 | 81 | 2.8 | 12.1 | -14.5 | 15 | C |
| 13 | 600 | 11.9 | 207 | C | 25.2 | -87 | 271 | 0.0 | -12.5 | -19.7 | 6 | C |
| 14 | 573 | 9.3 | 271 | C | 19.1 | -65 | 237 | -3.8 | -12.0 | -10.5 | 8 | C |
| 15 | 558 | 14.4 | 157 | C | 21.6 | -10 | 267 | -0.9 | -15.7 | 4.4 | 13 | C |
| 16 | 543 | 12.8 | 48 | C | 24.2 | -13 | 282 | 4.7 | -22.9 | 3.6 | 5 | C |
| 17 | 580 | 39.5 | 49 | L | 21.0 | -23 | 258 | -4.1 | -20.2 | -1.4 | 3 | C |
| 18 | 574 | 21.1 | 47 | C | 15.8 | -16 | 242 | -6.5 | -12.8 | -0.4 | 7 | C |
| 19 | 602 | 14.0 | 28 | C | 12.9 | -44 | 223 | -6.8 | -8.0 | -7.2 | 1 | C |
| 20 | 594 | 16.8 | 31 | C | 12.4 | -42 | 210 | -7.8 | -6.0 | -7.3 | 2 | C |
| 21 | 592 | 11.1 | 14 | L | 8.9 | -46 | 213 | -5.1 | -4.1 | -5.8 | 2 | C |
| 22 | 580 | 14.7 | 33 | L |  |  |  |  |  |  |  |  |
| 23 | 575 | 7.0 | 27 | C | 7.4 | -36 | 194 | -5.6 | -1.9 | -4.0 | 2 | C |
| 24 | 579 | 5.1 | 28 | C | 6.9 | -26 | 221 | -4.7 | -4.4 | -2.5 | 1 | C |

### AUG. 14, 1979

226

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 561 | 8.9 | 35 | L | 6.1 | -23 | 234 | -3.2 | -4.7 | -1.6 | 2 | C |
| 2 | 543 | 6.0 | 44 | L | 5.1 | -6 | 278 | 0.7 | -4.7 | 0.3 | 0 | C |
| 3 | 556 | 3.4 | 59 | C | 5.7 | 8 | 273 | 0.3 | -5.1 | 1.9 | 1 | C |
| 4 | 528 | 3.1 | 65 | C | 5.6 | 12 | 288 | 1.6 | -4.5 | 2.4 | 2 | C |
| 5 | 529 | 3.0 | 57 | C | 5.4 | 22 | 289 | 1.6 | -3.8 | 3.4 | 1 | C |
| 6 | 540 | 3.2 | 78 | C | 5.2 | 24 | 275 | 0.3 | -2.8 | 2.8 | 3 | C |
| 7 | 523 | 2.8 | 140 | A | 5.1 | -40 | 264 | -0.4 | -4.9 | -1.4 | 0 | C |
| 8 | 508 | 3.5 | 113 | L | 4.5 | 31 | 357 | 3.5 | 0.8 | 2.0 | 2 | J |
| 9 | 522 | 3.3 | 72 | J | 4.4 | 40 | 343 | 2.6 | 0.4 | 2.4 | 3 | J |
| 10 | 518 | 3.2 | 64 | J | 4.3 | 51 | 282 | 0.5 | -0.5 | 3.5 | 2 | J |
| 11 | 516 | 3.5 | 68 | J | 4.5 | 59 | 286 | 0.6 | 0.0 | 3.9 | 2 | C |
| 12 | 510 | 3.3 | 94 | L | 4.3 | 44 | 339 | 2.1 | 0.4 | 2.3 | 3 | J |
| 13 | 510 | 2.9 | 50 | J | 4.3 | 34 | 347 | 3.0 | 0.4 | 2.1 | 2 | J |
| 14 | 511 | 3.2 | 65 | J | 4.3 | -3 | 305 | 1.9 | -2.5 | 1.1 | 2 | J |
| 15 | 520 | 3.3 | 64 | J | 3.7 | 30 | 305 | 1.4 | -1.2 | 2.1 | 2 | J |
| 16 | 515 | 3.1 | 63 | J | 3.4 | 28 | 324 | 2.0 | -0.8 | 1.8 | 2 | J |
| 17 | 533 | 3.0 | 58 | J | 3.8 | 6 | 329 | 2.4 | -1.3 | 0.8 | 2 | J |
| 18 | 513 | 3.9 | 70 | J | 4.3 | -10 | 312 | 2.0 | -2.3 | 0.1 | 3 | J |
| 19 | 471 | 3.4 | 89 | L | 4.0 | 4 | 359 | 3.8 | -0.0 | 0.3 | 1 | J |
| 20 | 472 | 3.4 | 118 | J | 4.0 | -8 | 9 | 3.8 | 0.5 | -0.6 | 1 | J |
| 21 | 472 | 3.8 | 104 | J | 4.2 | -7 | 358 | 4.0 | -0.2 | -0.5 | 1 | J |
| 22 | 475 | 3.4 | 80 | J | 3.8 | 13 | 357 | 3.3 | -0.1 | 0.8 | 1 | J |
| 23 | 478 | 4.1 | 109 | J | 4.0 | 44 | 331 | 2.3 | -0.9 | 2.6 | 2 | J |
| 24 | 492 | 4.3 | 91 | J | 3.6 | 30 | 274 | 0.2 | -2.4 | 1.8 | 2 | J |

### AUG. 15, 1979

227

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 499 | 4.2 | 79 | J | 3.6 | 19 | 250 | -1.1 | -2.7 | 1.5 | 1 | J |
| 2 | 499 | 4.2 | 87 | J | 3.1 | 32 | 223 | -1.7 | -1.3 | 1.7 | 2 | J |
| 3 | 496 | 4.1 | 91 | J | 3.6 | -7 | 231 | -1.8 | -2.3 | 0.1 | 2 | J |
| 4 | 480 | 4.5 | 87 | J | 3.1 | -11 | 262 | -0.4 | -2.8 | 0.2 | 1 | J |
| 5 | 485 | 4.1 | 61 | J | 3.8 | -16 | 252 | -1.0 | -3.2 | 0.1 | 2 | J |
| 6 | 487 | 4.3 | 66 | J | 3.9 | -1 | 235 | -2.0 | -2.7 | 1.0 | 2 | J |
| 7 | 494 | 4.4 | 80 | J | 4.1 | 11 | 226 | -2.3 | -1.9 | 1.5 | 2 | J |
| 8 | 493 | 4.5 | 82 | J | 3.9 | 4 | 231 | -2.4 | -2.5 | 1.6 | 1 | J |
| 9 | 476 | 4.0 | 48 | J | 4.8 | -2 | 233 | -2.5 | -3.0 | 1.5 | 2 | J |
| 10 | 473 | 4.4 | 66 | J | 4.0 | 11 | 241 | -1.7 | -2.3 | 2.1 | 2 | J |
| 11 | 454 | 4.5 | 59 | J | 4.4 | 9 | 288 | 0.8 | -1.9 | 1.6 | 4 | J |
| 12 | 453 | 4.3 | 91 | J | 4.0 | -2 | 14 | 2.7 | 0.5 | -0.4 | 3 | J |
| 13 | 457 | 4.3 | 63 | J | 3.2 | -4 | 293 | 0.8 | -1.7 | 0.8 | 3 | J |
| 14 | 454 | 4.4 | 60 | J | 3.9 | 10 | 278 | 0.5 | -3.0 | 2.3 | 1 | J |
| 15 | 450 | 4.5 | 69 | J | 3.5 | -10 | 283 | 0.6 | -2.4 | 0.7 | 3 | J |
| 16 | 430 | 4.3 | 71 | J | 4.8 | -1 | 37 | 3.7 | 2.5 | -1.2 | 1 | J |
| 17 | 425 | 4.0 | 43 | J | 4.6 | 6 | 4 | 2.8 | 0.3 | 0.2 | 4 | J |
| 18 | 439 | 4.8 | 54 | J | 4.7 | -13 | 283 | 1.0 | -4.4 | 0.2 | 1 | J |
| 19 | 425 | 4.9 | 40 | J | 4.7 | -20 | 286 | 1.1 | -4.1 | -0.5 | 2 | J |
| 20 | 426 | 5.0 | 40 | J | 4.9 | -15 | 282 | 0.9 | -4.5 | -0.3 | 2 | J |
| 21 | 420 | 4.9 | 38 | J | 5.0 | -5 | 292 | 1.7 | -4.3 | 0.3 | 2 | J |
| 22 | 411 | 4.8 | 41 | J | 4.8 | 8 | 302 | 2.4 | -3.7 | 1.1 | 2 | J |
| 23 | 404 | 4.4 | 46 | J | 5.0 | 2 | 315 | 3.3 | -3.3 | 0.6 | 1 | J |
| 24 | 400 | 4.7 | 33 | J | 4.9 | -28 | 303 | 2.0 | -3.3 | -1.5 | 3 | J |

### AUG. 16, 1979

228

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 4.7 | 28 | J | 4.9 | -8 | 333 | 3.9 | -2.0 | -0.3 | 2 | J |
| 2 | 374 | 4.8 | 22 | J | 5.0 | 12 | 330 | 4.0 | -2.1 | 1.4 | 2 | J |
| 3 | 380 | 5.3 | 37 | C | 4.6 | 4 | 328 | 3.5 | -2.0 | 0.8 | 2 | J |
| 4 | 399 | 5.7 | 37 | J | 4.5 | -29 | 284 | 0.8 | -3.5 | -0.9 | 3 | J |
| 5 | 399 | 5.8 | 31 | J | 4.6 | -14 | 284 | 1.0 | -4.0 | 0.3 | 2 | J |
| 6 | 384 | 6.0 | 33 | J | 4.8 | -48 | 313 | 2.0 | -3.2 | -2.3 | 2 | J |
| 7 | 391 | 6.4 | 32 | J | 4.8 | -51 | 290 | 0.9 | -3.7 | -2.0 | 2 | J |
| 8 | 387 | 6.8 | 34 | J | 4.8 | -9 | 313 | 2.5 | -2.6 | 0.7 | 3 | J |
| 9 | 409 | 7.2 | 34 | J | 5.8 | -44 | 256 | -0.9 | -5.0 | -1.4 | 2 | J |
| 10 | 412 | 6.9 | 28 | J | 5.2 | -37 | 256 | -0.9 | -4.5 | -0.6 | 2 | J |
| 11 | 398 | 6.8 | 42 | J | 5.2 | -10 | 300 | 2.3 | -3.8 | 1.3 | 3 | J |
| 12 | 384 | 6.5 | 34 | J | 5.1 | 28 | 352 | 4.0 | 0.6 | 2.1 | 2 | J |
| 13 | 407 | 6.9 | 53 | J | 4.7 | 28 | 39 | 1.3 | 1.4 | 0.2 | 4 | J |
| 14 | 405 | 7.1 | 51 | J | 4.6 | -82 | 296 | 0.2 | -1.7 | -2.4 | 4 | J |
| 15 | 393 | 6.6 | 43 | J | 5.0 | -37 | 321 | 2.5 | -2.9 | -1.3 | 3 | J |
| 16 | 380 | 6.3 | 30 | J | 5.5 | 0 | 323 | 4.0 | -2.8 | 1.2 | 2 | J |
| 17 | 375 | 6.7 | 26 | J | 5.7 | 24 | 345 | 4.9 | -0.5 | 2.6 | 1 | J |
| 18 | 382 | 6.8 | 37 | J | 5.6 | 23 | 339 | 4.5 | -1.1 | 2.4 | 2 | J |
| 19 | 386 | 7.0 | 41 | J | 5.5 | 11 | 312 | 3.2 | -3.2 | 1.7 | 3 | J |
| 20 | 389 | 6.8 | 39 | J | 5.5 | 44 | 327 | 3.1 | -1.3 | 3.9 | 2 | J |
| 21 | 392 | 6.3 | 34 | J | 5.6 | 37 | 300 | 2.0 | -3.0 | 3.6 | 2 | J |
| 22 | 390 | 6.3 | 36 | J | 5.2 | 6 | 300 | 2.1 | -3.6 | 1.0 | 3 | J |
| 23 | 391 | 6.4 | 40 | J | 5.3 | 31 | 299 | 2.1 | -3.4 | 3.1 | 1 | J |
| 24 | 375 | 6.1 | 29 | J | 5.5 | 22 | 333 | 4.1 | -1.8 | 2.1 | 2 | J |

### AUG. 17, 1979

229

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 6.4 | 32 | J | 5.3 | -16 | 316 | 3.7 | -3.7 | -0.9 | 0 | J |
| 2 | 381 | 5.4 | 41 | C | 5.2 | 10 | 319 | 2.6 | -2.1 | 1.0 | 4 | J |
| 3 | 373 | 5.3 | 50 | C | 5.2 | 27 | 327 | 3.8 | -1.9 | 2.8 | 1 | J |
| 4 | 379 | 4.4 | 57 | J | 4.3 | 34 | 331 | 2.3 | -0.8 | 2.1 | 3 | J |
| 5 | 390 | 4.4 | 53 | C | 4.7 | -27 | 298 | 1.7 | -3.6 | -0.7 | 3 | J |
| 6 | 402 | 3.7 | 44 | J | 5.2 | 16 | 325 | 3.9 | -2.1 | 2.3 | 1 | J |
| 7 | 398 | 3.8 | 55 | J | 4.8 | -10 | 336 | 4.0 | -1.9 | 0.0 | 2 | J |
| 8 | 401 | 4.3 | 42 | J | 4.9 | -30 | 10 | 3.8 | -0.4 | -2.3 | 2 | J |
| 9 | 396 | 3.8 | 40 | J | 5.1 | 0 | 324 | 3.7 | -2.4 | 1.3 | 2 | J |
| 10 | 395 | 4.0 | 48 | J | 5.2 | 22 | 320 | 3.6 | -1.6 | 3.1 | 1 | J |
| 11 | 391 | 3.8 | 40 | J | 5.2 | -9 | 308 | 3.0 | -3.7 | 1.3 | 2 | J |
| 12 | 383 | 3.7 | 41 | J | 5.2 | 3 | 324 | 4.0 | -2.4 | 1.7 | 1 | J |
| 13 | 383 | 3.6 | 49 | J | 5.0 | 5 | 327 | 4.1 | -2.1 | 1.7 | 1 | J |
| 14 | 395 | 3.8 | 26 | J | 5.0 | 5 | 304 | 2.5 | -3.0 | 2.1 | 2 | J |
| 15 | 380 | 3.4 | 29 | J | 5.1 | 21 | 332 | 3.9 | -1.1 | 2.4 | 2 | J |
| 16 | 404 | 4.6 | 40 | J | 5.1 | 1 | 284 | 1.2 | -4.3 | 2.0 | 2 | J |
| 17 | 416 | 7.6 | 66 | J | 7.5 | 0 | 297 | 2.5 | -4.5 | 1.7 | 5 | J |
| 18 | 446 | 7.9 | 75 | J | 7.9 | -58 | 253 | -1.2 | -5.6 | -5.1 | 1 | J |
| 19 | 415 | 7.5 | 69 | J | 7.2 | -20 | 286 | 1.7 | -6.2 | -0.7 | 3 | J |
| 20 | 428 | 7.9 | 93 | J | 7.0 | -50 | 250 | -1.4 | -4.8 | -4.0 | 3 | J |
| 21 | 432 | 7.8 | 167 | J | 7.1 | 2 | 312 | 4.3 | -4.7 | 1.0 | 3 | J |
| 22 | 435 | 6.7 | 131 | J | 7.4 | 9 | 316 | 5.1 | -4.7 | 1.8 | 2 | J |
| 23 | 422 | 5.7 | 54 | J | 6.9 | 6 | 317 | 4.9 | -4.5 | 1.3 | 1 | J |
| 24 | 415 | 5.4 | 41 | J | 6.7 | -8 | 316 | 4.7 | -4.6 | -0.3 | 1 | J |

### AUG. 18, 1979

230

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 418 | 5.7 | 50 | J | 6.1 | -4 | 308 | 3.6 | -4.6 | 0.3 | 1 | J |
| 2 | 403 | 6.0 | 69 | C | 6.0 | 15 | 329 | 4.8 | -2.5 | 2.0 | 1 | C |
| 3 | 412 | 6.1 | 73 | C | 6.1 | 14 | 323 | 4.7 | -3.1 | 2.2 | 1 | C |
| 4 | 410 | 5.8 | 71 | C | 5.9 | 1 | 320 | 4.3 | -3.5 | 1.1 | 2 | C |
| 5 | 403 | 6.1 | 65 | C | 6.0 | -13 | 333 | 5.1 | -3.0 | -0.4 | 1 | C |
| 6 | 406 | 6.4 | 84 | J | 5.8 | -3 | 342 | 5.3 | -1.7 | 0.4 | 2 | J |
| 7 | 400 | 7.3 | 137 | J | 5.4 | -5 | 346 | 5.1 | -1.4 | 0.1 | 1 | J |
| 8 | 380 | 6.6 | 63 | J | 4.9 | -2 | 353 | 4.8 | -0.6 | 0.1 | 1 | J |
| 9 | 375 | 5.9 | 32 | J | 4.3 | -4 | 357 | 4.1 | -0.3 | -0.1 | 1 | J |
| 10 | 392 | 8.6 | 40 | J | 4.5 | -13 | 274 | 0.3 | -3.6 | 1.1 | 3 | J |
| 11 | 387 | 8.5 | 40 | C | 3.8 | -7 | 285 | 1.0 | -3.3 | 1.5 | 1 | J |
| 12 | 369 | 7.3 | 58 | C | 4.8 | 13 | 322 | 3.1 | -1.6 | 2.1 | 3 | J |
| 13 | 371 | 7.9 | 62 | J | 5.3 | 20 | 327 | 3.9 | -1.3 | 2.8 | 2 | J |
| 14 | 355 | 7.5 | 42 | C | 5.8 | 31 | 346 | 4.8 | 0.4 | 3.2 | 1 | J |
| 15 | 370 | 9.4 | 56 | C | 4.8 | 45 | 281 | 0.6 | -1.4 | 4.2 | 2 | J |
| 16 | 361 | 9.0 | 41 | C | 5.2 | 41 | 279 | 0.6 | -2.1 | 4.5 | 1 | J |
| 17 | 354 | 17.1 | 22 | C | 3.9 | -23 | 234 | -1.5 | -2.4 | -0.3 | 3 | C |
| 18 | 341 | 18.2 | 18 | C | 4.7 | -53 | 271 | 0.0 | -2.8 | -2.1 | 3 | J |
| 19 | 335 | 17.5 | 16 | J | 5.0 | -33 | 188 | -4.1 | -1.2 | -2.4 | 1 | J |
| 20 | 329 | 18.6 | 18 | C | 4.6 | -34 | 180 | -3.7 | -0.5 | -2.5 | 1 | J |
| 21 | 332 | 19.7 | 15 | C | 4.6 | -42 | 223 | -2.3 | -2.6 | -2.4 | 2 | J |
| 22 | 341 | 26.6 | 19 | C | 10.3 | -34 | 270 | -0.0 | -6.9 | -3.3 | 7 | J |
| 23 | 372 | 40.1 | 34 | J | 9.2 | -68 | 190 | -2.5 | -1.3 | -6.2 | 6 | J |
| 24 | 375 | 39.3 | 40 | J | 10.2 | -72 | 239 | -1.6 | -3.9 | -8.8 | 3 | J |

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AUG. 19, 1979 231

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 40.4 | 36 | J | 12.0 | -73 | 175 | -3.4 | -1.5 | -11.1 | 3 | J |
| 2 | 371 | 38.9 | 48 | J | 13.4 | -64 | 223 | -3.8 | -5.5 | -9.6 | 7 | J |
| 3 | 371 | 43.7 | 46 | J | 12.2 | -5 | 253 | -3.5 | -11.4 | 1.7 | 2 | J |
| 4 | 368 | 35.3 | 49 | C | 10.5 | -14 | 264 | -0.8 | -8.0 | 0.3 | 6 | C |
| 5 | 368 | 33.6 | 58 | C | 11.1 | -68 | 264 | -0.4 | -6.5 | -7.5 | 5 | C |
| 6 | 367 | 32.2 | 53 | C | 12.5 | -33 | 270 | 0.0 | -10.9 | -2.2 | 5 | C |
| 7 | 366 | 28.1 | 60 | C | | | | | | | | |
| 8 | 375 | 12.2 | 63 | C | 17.7 | 35 | 275 | 1.3 | -8.1 | 15.5 | 2 | C |
| 9 | 372 | 22.4 | 62 | C | 17.1 | -66 | 267 | -0.2 | -8.9 | -6.6 | 12 | C |
| 10 | 383 | 60.4 | 41 | C | 12.5 | -42 | 315 | 5.2 | -7.8 | -3.0 | 8 | C |
| 11 | 393 | 21.3 | 52 | C | 19.9 | 4 | 295 | 8.0 | -14.1 | 10.0 | 6 | C |
| 12 | 384 | 13.9 | 49 | C | 18.6 | 21 | 316 | 12.0 | -6.6 | 11.5 | 5 | J |
| 13 | 419 | 13.7 | 129 | J | 16.2 | 34 | 324 | 10.7 | -2.2 | 11.6 | 3 | J |
| 14 | 432 | 17.4 | 263 | J | 12.5 | 24 | 316 | 5.6 | -3.0 | 5.6 | 10 | J |
| 15 | 482 | 12.4 | 172 | C | 10.0 | 52 | 316 | 4.3 | -0.3 | 8.6 | 3 | J |
| 16 | 504 | 11.5 | 168 | C | 6.2 | -33 | 208 | -4.1 | -3.2 | -1.9 | 3 | J |
| 17 | 528 | 6.7 | 397 | J | 9.5 | 13 | 261 | -1.2 | -6.2 | 4.2 | 6 | J |
| 18 | 549 | 6.4 | 327 | J | 8.5 | -23 | 238 | -2.6 | -4.7 | -0.8 | 7 | J |
| 19 | 535 | 6.5 | 289 | J | 8.8 | -19 | 245 | -2.7 | -6.1 | -0.7 | 6 | J |
| 20 | 518 | 7.6 | 278 | J | 9.0 | 3 | 277 | 0.9 | -7.4 | 2.0 | 5 | J |
| 21 | 527 | 7.2 | 245 | J | 10.1 | -3 | 283 | 2.1 | -9.1 | 1.1 | 4 | J |
| 22 | 496 | 12.9 | 118 | J | 9.8 | 35 | 293 | 2.5 | -5.1 | 5.3 | 6 | J |
| 23 | 500 | 10.9 | 101 | C | 10.8 | 15 | 285 | 2.6 | -9.1 | 4.0 | 3 | J |
| 24 | 509 | 8.2 | 125 | J | 11.0 | 1 | 281 | 2.1 | -10.5 | 1.8 | 2 | J |

AUG. 20, 1979 232

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 512 | 8.4 | 142 | J | 9.9 | -11 | 287 | 2.7 | -9.0 | -0.3 | 3 | J |
| 2 | 528 | 6.8 | 131 | J | 10.5 | -17 | 293 | 3.9 | -9.7 | -1.2 | 1 | J |
| 3 | 520 | 6.3 | 144 | C | 9.9 | -5 | 295 | 3.9 | -8.3 | 1.2 | 3 | C |
| 4 | 490 | 6.6 | 80 | J | 10.4 | 16 | 333 | 8.3 | -3.3 | 3.8 | 4 | J |
| 5 | 489 | 5.6 | 107 | C | 10.9 | 18 | 326 | 8.4 | -4.2 | 5.0 | 2 | J |
| 6 | 511 | 7.8 | 79 | J | 11.3 | 3 | 295 | 4.6 | -8.9 | 4.3 | 3 | J |
| 7 | 566 | 11.1 | 138 | J | 21.5 | 19 | 295 | 8.3 | -13.3 | 13.7 | 10 | J |
| 8 | 640 | 16.6 | 636 | J | 22.9 | 39 | 322 | 13.2 | -2.8 | 16.8 | 8 | J |
| 9 | 640 | 18.7 | 864 | J | 16.6 | 44 | 346 | 11.0 | 3.0 | 10.8 | 6 | J |
| 10 | 658 | 17.1 | 731 | J | 15.8 | 32 | 8 | 11.8 | 5.2 | 5.5 | 7 | J |
| 11 | 686 | 13.3 | 369 | C | 15.3 | 59 | 41 | 5.8 | 11.0 | 8.2 | 4 | J |
| 12 | 631 | 14.1 | 291 | C | 15.7 | 30 | 32 | 9.6 | 8.6 | 2.4 | 9 | J |
| 13 | 615 | 12.2 | 270 | C | 14.5 | 47 | 36 | 7.8 | 10.2 | 6.0 | 3 | J |
| 14 | 570 | 13.6 | 241 | J | 14.3 | 39 | 39 | 8.5 | 10.3 | 4.4 | 3 | J |
| 15 | 599 | 15.1 | 295 | J | 14.7 | 42 | 351 | 10.1 | 2.7 | 9.0 | 5 | J |
| 16 | 616 | 5.7 | 225 | C | 20.3 | 6 | 321 | 15.4 | -10.4 | 7.0 | 3 | C |
| 17 | 640 | 7.3 | 151 | C | 19.4 | 15 | 304 | 7.1 | -8.4 | 6.8 | 14 | C |
| 18 | 645 | 12.5 | 93 | C | 14.7 | -48 | 270 | -0.0 | -12.3 | -7.2 | 4 | J |
| 19 | 688 | 7.4 | 76 | J | 19.1 | -29 | 277 | 1.8 | -16.5 | -4.3 | 8 | J |
| 20 | 693 | 10.3 | 82 | J | 13.9 | -6 | 292 | 4.7 | -11.5 | 1.1 | 6 | J |
| 21 | 676 | 11.2 | 105 | J | 10.2 | 38 | 261 | -1.0 | -5.3 | 5.9 | 7 | J |
| 22 | 707 | 5.5 | 131 | J | 6.2 | 7 | 282 | 1.1 | -5.0 | 1.4 | 3 | J |
| 23 | 689 | 5.3 | 66 | J | 7.0 | 10 | 224 | -4.7 | -4.3 | 1.8 | 2 | J |
| 24 | 691 | 6.4 | 79 | J | 5.8 | -21 | 313 | 3.2 | -3.7 | -1.3 | 3 | J |

AUG. 21, 1979 233

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 680 | 2.6 | 85 | J | 6.7 | -45 | 2 | 4.7 | -0.6 | -4.6 | 1 | J |
| 2 | 670 | 3.4 | 92 | J | 5.7 | -63 | 301 | 1.3 | -3.1 | -4.4 | 1 | J |
| 3 | 648 | 3.4 | 92 | J | 5.8 | -56 | 354 | 3.0 | -1.4 | -4.3 | 2 | J |
| 4 | 646 | 3.7 | 94 | C | 5.4 | -61 | 303 | 1.2 | -2.9 | -3.4 | 2 | C |
| 5 | 627 | 3.8 | 85 | J | 5.2 | -30 | 281 | 0.8 | -4.9 | -0.9 | 1 | J |
| 6 | 626 | 3.7 | 78 | J | 5.3 | -36 | 275 | 0.3 | -4.8 | -1.1 | 2 | J |
| 7 | 599 | 3.8 | 107 | L | 5.0 | -41 | 301 | 1.8 | -4.1 | -1.5 | 1 | J |
| 8 | 604 | 3.7 | 99 | C | 5.2 | -43 | 282 | 0.8 | -4.8 | -1.3 | 1 | J |
| 9 | 587 | 4.0 | 78 | J | 5.3 | -44 | 281 | 0.6 | -4.4 | -1.2 | 2 | J |
| 10 | 582 | 5.0 | 66 | J | 4.3 | -38 | 263 | -0.3 | -3.2 | -0.4 | 3 | J |
| 11 | 578 | 6.0 | 63 | J | 3.5 | 54 | 249 | -0.5 | -0.1 | 2.3 | 3 | J |
| 12 | 589 | 6.5 | 69 | J | 2.9 | 7 | 27 | 2.1 | 1.1 | -0.3 | 2 | J |
| 13 | 596 | 7.1 | 90 | J | 2.1 | 24 | 9 | 1.3 | 0.5 | 0.4 | 2 | J |
| 14 | 584 | 7.3 | 94 | J | 2.7 | -73 | 307 | 0.2 | -0.7 | -0.7 | 3 | J |
| 15 | 554 | 10.5 | 34 | J | 2.0 | 32 | 3 | 1.5 | 0.5 | 0.8 | 1 | J |
| 16 | 540 | 8.0 | 28 | J | 1.4 | 41 | 1 | 0.5 | 0.2 | 0.4 | 1 | J |
| 17 | 531 | 8.9 | 34 | J | 1.9 | 15 | 17 | 0.7 | 0.3 | 0.1 | 2 | J |
| 18 | 544 | 8.0 | 30 | J | 3.1 | -13 | 176 | -2.8 | -0.0 | -0.7 | 2 | J |
| 19 | 537 | 4.2 | 62 | J | 3.5 | 19 | 193 | -1.9 | -0.3 | 0.8 | 3 | J |
| 20 | 529 | 5.1 | 74 | J | 3.8 | 44 | 166 | -2.0 | 0.9 | 1.9 | 3 | J |
| 21 | 529 | 10.7 | 37 | J | 3.7 | -16 | 192 | -3.3 | -0.9 | -0.8 | 1 | J |
| 22 | 523 | 10.2 | 39 | J | 4.1 | -7 | 196 | -3.6 | -1.1 | -0.3 | 1 | J |
| 23 | 523 | 11.2 | 38 | J | 3.6 | -6 | 191 | -3.1 | -0.7 | -0.2 | 1 | J |
| 24 | 515 | 10.6 | 39 | J | 3.3 | -2 | 190 | -3.0 | -0.5 | -0.0 | 1 | J |

AUG. 22, 1979 234

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 501 | 11.6 | 32 | J | 2.7 | -1 | 172 | -2.4 | 0.3 | -0.1 | 1 | J |
| 2 | 502 | 11.5 | 34 | J | 3.9 | -7 | 185 | -3.7 | -0.4 | -0.4 | 1 | J |
| 3 | 497 | 14.2 | 27 | J | 4.3 | -14 | 182 | -4.1 | -0.4 | -1.0 | 1 | J |
| 4 | 495 | 16.0 | 22 | J | 3.7 | -11 | 181 | -3.5 | -0.3 | -0.6 | 1 | J |
| 5 | 494 | 13.5 | 21 | J | 3.6 | -1 | 169 | -3.3 | 0.6 | -0.3 | 1 | J |
| 6 | 480 | 12.5 | 14 | L | 3.3 | -3 | 163 | -3.2 | 0.8 | -0.5 | 1 | J |
| 7 | 482 | 15.0 | 23 | J | 3.3 | 8 | 159 | -3.1 | 1.3 | -0.1 | 0 | J |
| 8 | 476 | 13.8 | 24 | J | 3.6 | -2 | 167 | -3.5 | 0.7 | -0.5 | 0 | J |
| 9 | 476 | 14.5 | 26 | J | 3.8 | -10 | 176 | -3.7 | -0.1 | -0.7 | 0 | J |
| 10 | 468 | 16.7 | 31 | J | 3.8 | -13 | 174 | -3.7 | -0.1 | -0.9 | 0 | J |
| 11 | 464 | 18.5 | 34 | J | 3.9 | -13 | 171 | -3.6 | 0.0 | -1.0 | 1 | J |
| 12 | 457 | 21.6 | 24 | J | 3.5 | -11 | 170 | -3.4 | 0.2 | -0.9 | 0 | J |
| 13 | 456 | 23.6 | 23 | J | 3.2 | -12 | 170 | -3.1 | 0.1 | -0.9 | 0 | J |
| 14 | 445 | 16.2 | 12 | L | 2.9 | -24 | 178 | -2.6 | -0.5 | -1.1 | 0 | J |
| 15 | 439 | 10.8 | 31 | L | 4.4 | -19 | 188 | -4.0 | -1.1 | -1.0 | 1 | C |
| 16 | 451 | 5.8 | 52 | C | 4.2 | -8 | 175 | -4.1 | 0.1 | -0.6 | 1 | C |
| 17 | 449 | 4.8 | 56 | C | 4.1 | -10 | 164 | -3.9 | 0.8 | -1.1 | 1 | C |
| 18 | 448 | 6.8 | 44 | C | 3.9 | -20 | 178 | -3.6 | -0.3 | -1.3 | 1 | C |
| 19 | 442 | 7.4 | 33 | C | 4.2 | 16 | 243 | -1.4 | -2.4 | 1.5 | 3 | C |
| 20 | 436 | 7.8 | 34 | C | 2.8 | 27 | 13 | 2.1 | 0.7 | 1.0 | 1 | C |
| 21 | 432 | 7.2 | 33 | C | 3.4 | 3 | 36 | 2.7 | 2.0 | -0.2 | 0 | C |
| 22 | 422 | 5.7 | 41 | C | 4.0 | 8 | 14 | 3.6 | 1.0 | 0.4 | 1 | C |
| 23 | 416 | 3.5 | 42 | C | 4.7 | 26 | 5 | 4.2 | 0.7 | 2.0 | 0 | C |
| 24 | 415 | 3.5 | 42 | C | 4.5 | 25 | 349 | 3.9 | -0.4 | 1.9 | 1 | C |

AUG. 23, 1979 235

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 412 | 3.5 | 37 | C | 4.5 | 18 | 360 | 4.3 | 0.2 | 1.3 | 0 | C |
| 2 | 416 | 4.0 | 50 | C | 4.3 | 6 | 349 | 3.5 | -0.6 | 0.5 | 2 | C |
| 3 | 412 | 4.0 | 40 | C | 4.2 | 6 | 328 | 3.4 | -2.0 | 0.9 | 1 | C |
| 4 | 450 | 3.2 | 50 | C | 4.5 | 5 | 341 | 3.8 | -1.2 | 0.7 | 2 | C |
| 5 | 397 | 4.0 | 39 | C | 4.5 | 5 | 13 | 4.2 | 1.0 | 0.0 | 1 | C |
| 6 | 400 | 4.1 | 40 | C | 4.5 | 3 | 25 | 4.0 | 1.8 | -0.5 | 1 | C |
| 7 | 398 | 4.1 | 37 | C | 4.5 | 23 | 3 | 3.9 | 0.9 | 1.4 | 1 | C |
| 8 | 399 | 4.1 | 43 | C | 4.3 | 29 | 349 | 3.2 | 0.3 | 1.9 | 2 | C |
| 9 | 404 | 4.6 | 37 | C | 4.8 | 35 | 23 | 3.3 | 2.5 | 1.5 | 2 | C |
| 10 | 408 | 5.9 | 50 | C | 6.3 | 10 | 340 | 5.7 | -1.2 | 2.0 | 1 | C |
| 11 | 416 | 6.4 | 50 | C | 6.3 | 10 | 328 | 4.8 | -2.0 | 2.4 | 2 | C |
| 12 | 410 | 7.0 | 35 | C | 6.6 | 30 | 336 | 4.9 | -0.1 | 3.8 | 2 | C |
| 13 | 389 | 6.7 | 34 | C | 6.5 | 11 | 345 | 6.0 | -0.7 | 1.9 | 1 | C |
| 14 | 382 | 6.6 | 30 | C | 6.6 | -1 | 330 | 5.5 | -2.9 | 1.5 | 1 | C |
| 15 | 377 | 8.6 | 14 | C | | | | | | | | |
| 16 | 374 | 8.4 | 18 | C | 6.1 | 20 | 332 | 5.0 | -1.5 | 3.0 | 0 | C |
| 17 | 373 | 9.3 | 19 | C | 6.1 | 14 | 330 | 5.1 | -2.2 | 2.4 | 1 | C |
| 18 | 369 | 9.5 | 18 | C | 5.9 | 5 | 331 | 5.1 | -2.6 | 1.3 | 0 | C |
| 19 | 365 | 9.1 | 20 | C | 5.8 | 6 | 337 | 5.2 | -2.0 | 1.2 | 1 | C |
| 20 | 368 | 9.8 | 17 | C | 5.5 | -22 | 327 | 4.1 | -3.1 | -1.4 | 1 | C |
| 21 | 367 | 9.3 | 17 | C | 5.3 | -16 | 328 | 3.6 | -2.4 | -0.8 | 3 | C |
| 22 | 365 | 9.4 | 16 | C | 5.3 | 15 | 333 | 4.5 | -2.1 | 1.7 | 0 | C |
| 23 | 364 | 9.8 | 16 | C | 4.9 | 10 | 328 | 4.0 | -2.3 | 1.2 | 1 | C |
| 24 | 359 | 7.9 | 20 | C | 5.1 | 22 | 343 | 4.5 | -1.0 | 2.1 | 0 | C |

AUG. 24, 1979 236

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 357 | 8.6 | 25 | C | 5.3 | 9 | 338 | 4.8 | -1.8 | 1.2 | 0 | C |
| 2 | 357 | 8.8 | 13 | C | 6.0 | 3 | 327 | 5.0 | -3.2 | 1.0 | 0 | C |
| 3 | 357 | 9.9 | 16 | C | 5.0 | 16 | 336 | 3.9 | -1.4 | 1.6 | 2 | C |
| 4 | 352 | 11.9 | 18 | C | 3.6 | 37 | 354 | 2.8 | 0.3 | 2.1 | 1 | C |
| 5 | 350 | 12.1 | 18 | C | 3.8 | 13 | 331 | 3.1 | -1.3 | 1.3 | 1 | C |
| 6 | 347 | 13.2 | 18 | C | 3.0 | -8 | 312 | 1.9 | -2.2 | 0.5 | 0 | C |
| 7 | 349 | 14.5 | 18 | C | 3.1 | 6 | 328 | 2.6 | -1.3 | 1.0 | 1 | C |
| 8 | 349 | 12.7 | 20 | C | 2.4 | 74 | 16 | 0.1 | 0.3 | 0.4 | 2 | C |
| 9 | 351 | 11.0 | 21 | C | 4.5 | 4 | 146 | -3.7 | 2.3 | -1.0 | 1 | C |
| 10 | 353 | 11.5 | 30 | C | 5.4 | -6 | 154 | -4.8 | 1.7 | -1.7 | 1 | C |
| 11 | 360 | 11.7 | 34 | C | 5.7 | -13 | 165 | -5.2 | 0.5 | -1.8 | 1 | C |
| 12 | 368 | 15.7 | 46 | C | 7.6 | 4 | 156 | -6.7 | 2.8 | -1.1 | 2 | C |
| 13 | 363 | 17.1 | 48 | C | 8.5 | -6 | 157 | -7.7 | 2.3 | -2.4 | 2 | C |
| 14 | 361 | 17.7 | 48 | C | 8.2 | -10 | 158 | -7.4 | 1.8 | -2.6 | 1 | C |
| 15 | 373 | 14.9 | 63 | C | 7.2 | 16 | 138 | -4.9 | 4.8 | -0.3 | 2 | C |
| 16 | 388 | 11.2 | 55 | C | 10.2 | 27 | 117 | -3.6 | 8.1 | 0.7 | 5 | C |
| 17 | 437 | 15.1 | 72 | C | 12.9 | 50 | 80 | 0.9 | 7.2 | 3.9 | 9 | C |
| 18 | 438 | 11.6 | 83 | C | 16.5 | -25 | 147 | -12.0 | 5.2 | -8.8 | 4 | C |
| 19 | 486 | 11.1 | 97 | C | 16.7 | 50 | 44 | 6.3 | 8.7 | 8.5 | 9 | C |
| 20 | 510 | 14.4 | 79 | C | 16.3 | 24 | 349 | 12.3 | -1.1 | 6.0 | 8 | C |
| 21 | 512 | 14.2 | 60 | C | 16.7 | 5 | 326 | 13.8 | -8.8 | 3.1 | 1 | C |
| 22 | 498 | 12.5 | 51 | C | 15.9 | 3 | 327 | 13.3 | -8.2 | 2.4 | 1 | C |
| 23 | 496 | 14.2 | 55 | C | 14.0 | 2 | 335 | 12.6 | -5.6 | 1.4 | 2 | C |
| 24 | 500 | 13.5 | 45 | C | 13.1 | 18 | 341 | 11.4 | -3.2 | 4.4 | 3 | C |

AUG. 25, 1979 237

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 502 | 14.2 | 46 | C | 12.6 | 21 | 347 | 11.3 | -1.7 | 4.8 | 2 | C |
| 2 | 494 | 14.3 | 45 | C | 11.8 | 24 | 339 | 9.9 | -2.7 | 5.4 | 2 | C |
| 3 | 485 | 14.3 | 44 | C | 11.6 | 35 | 336 | 5.6 | -5.6 | 8.3 | 2 | C |
| 4 | 480 | 20.0 | 40 | C | 10.9 | 37 | 334 | 7.7 | -1.5 | 7.3 | 2 | C |
| 5 | 481 | 19.3 | 51 | C | 10.5 | 32 | 356 | 8.9 | 1.4 | 5.4 | 1 | C |
| 6 | 468 | 21.5 | 52 | C | 8.7 | 35 | 336 | 5.9 | -0.6 | 5.2 | 3 | C |
| 7 | 457 | 20.8 | 56 | C | | | | | | | | |
| 8 | 444 | 22.5 | 48 | C | 5.8 | -68 | 247 | -0.6 | -3.3 | -2.9 | 3 | C |
| 9 | 446 | 21.8 | 53 | C | 5.9 | -44 | 132 | -1.9 | 0.4 | -3.5 | 4 | C |
| 10 | 434 | 25.5 | 48 | C | 6.3 | 15 | 12 | 3.5 | 1.1 | 0.5 | 5 | C |
| 11 | 440 | 25.7 | 51 | C | 6.0 | -39 | 54 | 1.5 | 0.6 | -2.9 | 4 | C |
| 12 | 425 | 27.9 | 49 | C | | | | | | | | |
| 13 | 418 | 22.5 | 47 | C | 9.3 | -6 | 31 | 7.8 | 3.5 | -3.3 | 2 | C |
| 14 | 420 | 19.4 | 51 | C | 12.0 | 0 | 19 | 11.2 | 3.3 | -1.9 | 2 | C |
| 15 | 418 | 24.8 | 53 | C | 11.6 | 10 | 358 | 11.1 | 0.6 | 1.8 | 3 | C |
| 16 | 431 | 28.0 | 89 | A | | | | | | | | |
| 17 | 428 | 61.3 | 66 | L | | | | | | | | |
| 18 | 422 | 70.5 | 59 | L | | | | | | | | |
| 19 | 380 | 45.0 | 344 | L | | | | | | | | |
| 20 | 372 | 49.9 | 320 | L | | | | | | | | |
| 21 | 389 | 40.3 | 195 | L | | | | | | | | |
| 22 | 399 | 27.0 | 196 | L | | | | | | | | |
| 23 | 375 | 10.8 | 382 | L | | | | | | | | |
| 24 | 380 | 5.5 | 342 | L | 13.3 | 6 | 112 | -4.6 | 11.7 | -0.7 | 4 | C |

AUG. 26, 1979 238

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 419 | 10.0 | 224 | L | 11.5 | 8 | 116 | -5.0 | 10.2 | -0.4 | 2 | C |
| 2 | 415 | 12.0 | 156 | L | 11.2 | 12 | 111 | -3.8 | 10.4 | 0.0 | 1 | C |
| 3 | 326 | 9.3 | 179 | L | 12.0 | 8 | 103 | -2.5 | 11.3 | -1.3 | 2 | C |
| 4 | 396 | 7.4 | 121 | L | 11.0 | 1 | 110 | -3.7 | 9.7 | -2.9 | 2 | C |
| 5 | 395 | 8.6 | 134 | L | 10.7 | 7 | 105 | -2.6 | 9.7 | -2.3 | 3 | C |
| 6 | 345 | 7.8 | 185 | L | 10.8 | 11 | 99 | -1.5 | 9.5 | -2.2 | 4 | C |
| 7 | 401 | 8.6 | 87 | J | 10.6 | -13 | 121 | -5.1 | 6.5 | -5.8 | 3 | C |
| 8 | 344 | 10.3 | 222 | L | 9.4 | 9 | 94 | -0.5 | 6.9 | -2.5 | 5 | C |
| 9 | 439 | 10.7 | 117 | J | 5.9 | 84 | 126 | -0.1 | 1.1 | 1.5 | 5 | C |
| 10 | 465 | 6.6 | 70 | J | 3.8 | 56 | 136 | -0.7 | 1.4 | 0.9 | 3 | C |
| 11 | 475 | 6.7 | 57 | J | 4.1 | 64 | 311 | 0.8 | 0.6 | 2.6 | 3 | J |
| 12 | 461 | 6.9 | 48 | J | 4.1 | 30 | 186 | -2.2 | 0.5 | 1.2 | 3 | J |
| 13 | 463 | 8.3 | 75 | J | 4.3 | -17 | 108 | -1.1 | 2.4 | -2.8 | 2 | J |
| 14 | 470 | 7.7 | 75 | J | 3.8 | -12 | 91 | -0.1 | 2.2 | -2.0 | 2 | J |
| 15 | 465 | 7.0 | 63 | J | 4.4 | 83 | 173 | -0.5 | 1.8 | 3.3 | 2 | J |
| 16 | 462 | 7.4 | 70 | J | 3.8 | -8 | 194 | -1.8 | -0.5 | -0.0 | 3 | J |
| 17 | 466 | 7.3 | 82 | J | 4.0 | -6 | 90 | 0.0 | 2.8 | -1.5 | 2 | J |
| 18 | 459 | 5.8 | 75 | C | 4.2 | -25 | 88 | 0.1 | 2.7 | -2.5 | 2 | C |
| 19 | 460 | 5.1 | 82 | C | 5.0 | -6 | 110 | -1.5 | 3.7 | -1.5 | 2 | C |
| 20 | 466 | 4.6 | 78 | C | 5.3 | 12 | 108 | -1.3 | 4.0 | -0.1 | 3 | C |
| 21 | 472 | 4.7 | 91 | C | 4.8 | 20 | 132 | -2.6 | 3.2 | 0.9 | 2 | C |
| 22 | 483 | 5.3 | 75 | J | 5.4 | 28 | 93 | -0.2 | 4.7 | 1.5 | 2 | J |
| 23 | 484 | 5.6 | 100 | J | 5.4 | 28 | 151 | -3.2 | 2.1 | 1.6 | 3 | J |
| 24 | 494 | 5.3 | 91 | J | 5.6 | 30 | 178 | -4.8 | 0.6 | 2.7 | 1 | J |

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08/27/79 – 09/03/79

AUG. 27, 1979 — 239

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 489 | 5.4 | 94 | J | 5.3 | 13 | 183 | -4.6 | -0.0 | 1.1 | 2 | J |
| 2 | 483 | 5.2 | 96 | J | 5.2 | -18 | 174 | -4.3 | 0.1 | -1.5 | 3 | J |
| 3 | 474 | 5.1 | 119 | J | 5.1 | -11 | 169 | -4.1 | 0.6 | -1.0 | 3 | J |
| 4 | 485 | 5.2 | 80 | J | 5.0 | -17 | 129 | -2.3 | 2.3 | -1.9 | 3 | J |
| 5 | 458 | 4.6 | 69 | C | 5.2 | 0 | 143 | -3.8 | 2.6 | -1.0 | 2 | J |
| 6 | 457 | 5.0 | 35 | J | 5.3 | -12 | 151 | -4.1 | 1.7 | -1.8 | 2 | J |
| 7 | 464 | 5.0 | 47 | C | 5.9 | -12 | 130 | -2.9 | 2.7 | -2.4 | 4 | J |
| 8 | 477 | 6.3 | 52 | J | 6.1 | -11 | 96 | -0.5 | 4.0 | -3.4 | 3 | J |
| 9 | 457 | 5.8 | 48 | J | 6.3 | 8 | 113 | -2.2 | 4.9 | -2.0 | 3 | J |
| 10 | 459 | 6.1 | 57 | J | 6.2 | 21 | 122 | -2.8 | 4.8 | -0.7 | 3 | J |
| 11 | 454 | 6.1 | 51 | J | 6.5 | -28 | 114 | -2.2 | 2.5 | -5.0 | 2 | J |
| 12 | 438 | 6.0 | 50 | J | 6.3 | -3 | 122 | -2.8 | 3.6 | -2.7 | 3 | J |
| 13 | 419 | 5.6 | 46 | J | 6.3 | 17 | 147 | -4.7 | 3.5 | -0.2 | 2 | J |
| 14 | 440 | 5.7 | 73 | J | 6.1 | 33 | 112 | -1.8 | 5.3 | 0.4 | 2 | J |
| 15 |  |  |  |  | 6.0 | 23 | 116 | -2.3 | 5.3 | -0.2 | 2 | J |
| 16 | 428 | 5.2 | 65 | C | 6.1 | 10 | 143 | -3.1 | 2.4 | -0.4 | 5 | J |
| 17 | 423 | 5.0 | 60 | C | 6.0 | -11 | 136 | -3.0 | 2.4 | -1.8 | 4 | J |
| 18 | 430 | 5.3 | 65 | C | 5.2 | -4 | 121 | -1.8 | 2.8 | -1.2 | 4 | J |
| 19 | 435 | 5.2 | 66 | C | 4.8 | 33 | 113 | -1.1 | 2.9 | 1.0 | 3 | J |
| 20 | 428 | 4.2 | 69 | J | 4.4 | -2 | 124 | -2.1 | 3.0 | -0.8 | 2 | J |
| 21 | 437 | 4.8 | 68 | J | 4.4 | 10 | 128 | -2.3 | 3.0 | 0.1 | 2 | J |
| 22 | 436 | 4.6 | 45 | C | 4.5 | 49 | 187 | -1.9 | 0.2 | 2.2 | 3 | C |
| 23 | 443 | 4.8 | 50 | C |  |  |  |  |  |  |  |  |
| 24 | 426 | 4.4 | 48 | C | 4.6 | -22 | 141 | -2.9 | 2.0 | -1.9 | 2 | C |

AUG. 28, 1979 — 240

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 441 | 4.5 | 57 | C | 4.2 | -5 | 99 | -0.6 | 3.7 | -1.1 | 1 | C |
| 2 | 422 | 4.3 | 48 | C | 4.1 | 11 | 128 | -2.3 | 3.0 | 0.1 | 1 | C |
| 3 | 429 | 4.2 | 41 | C | 4.4 | -1 | 99 | -0.6 | 3.7 | -1.1 | 2 | C |
| 4 | 442 | 4.9 | 46 | J | 4.3 | -8 | 99 | -0.6 | 3.4 | -1.7 | 2 | J |
| 5 | 425 | 4.8 | 46 | J | 4.1 | 16 | 120 | -1.7 | 3.2 | -0.1 | 2 | J |
| 6 | 421 | 4.7 | 37 | J | 4.0 | 11 | 132 | -2.3 | 2.6 | -0.4 | 2 | J |
| 7 | 412 | 4.5 | 29 | J | 4.1 | 18 | 155 | -3.4 | 1.9 | 0.4 | 1 | J |
| 8 | 416 | 4.3 | 37 | C | 4.3 | -30 | 104 | -0.8 | 1.7 | -3.0 | 2 | C |
| 9 | 417 | 4.7 | 34 | J | 4.3 | 16 | 139 | -2.3 | 2.2 | -0.3 | 3 | J |
| 10 | 426 | 5.2 | 39 | J | 4.3 | -6 | 98 | -0.5 | 2.6 | -2.1 | 2 | J |
| 11 | 413 | 4.7 | 44 | J | 4.2 | -7 | 140 | -2.3 | 1.4 | -1.3 | 3 | J |
| 12 | 426 | 5.0 | 40 | J | 4.6 | -30 | 103 | -0.7 | 1.6 | -3.2 | 3 | J |
| 13 | 424 | 5.0 | 36 | J | 4.6 | -17 | 92 | -0.1 | 2.7 | -3.1 | 2 | J |
| 14 | 411 | 5.0 | 32 | J | 4.5 | 15 | 105 | -1.0 | 3.9 | -1.0 | 2 | J |
| 15 | 400 | 5.1 | 58 | J | 4.4 | -12 | 111 | -1.2 | 2.4 | -2.1 | 3 | J |
| 16 | 403 | 4.7 | 42 | C | 4.5 | 5 | 115 | -1.6 | 3.2 | -1.2 | 2 | J |
| 17 | 395 | 4.9 | 43 | C | 4.6 | -12 | 152 | -2.9 | 1.1 | -1.2 | 3 | J |
| 18 | 384 | 5.2 | 39 | C | 4.7 | 17 | 157 | -3.8 | 1.9 | 0.7 | 2 | J |
| 19 | 390 | 4.9 | 36 | C | 4.8 | 36 | 138 | -2.6 | 2.9 | 1.8 | 2 | J |
| 20 | 392 | 5.0 | 40 | C | 4.3 | 45 | 147 | -2.3 | 2.1 | 2.3 | 2 | J |
| 21 | 419 | 5.0 | 49 | C | 4.0 | -13 | 81 | 0.5 | 2.9 | -1.3 | 3 | J |
| 22 | 392 | 5.5 | 47 | C | 4.1 | -67 | 183 | -0.9 | -0.4 | -2.0 | 3 | C |
| 23 | 384 | 5.3 | 45 | C | 4.4 | -44 | 159 | -2.7 | 0.5 | -2.9 | 2 | C |
| 24 | 386 | 5.5 | 48 | C | 4.1 | -2 | 110 | -0.9 | 2.4 | -0.6 | 3 | C |

AUG. 29, 1979 — 241

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 383 | 5.5 | 42 | C | 4.4 | -24 | 278 | 0.6 | -4.3 | -1.0 | 1 | J |
| 2 | 380 | 5.7 | 39 | C | 4.7 | -47 | 116 | -1.1 | 1.6 | -3.2 | 3 | J |
| 3 | 389 | 5.4 | 27 | C | 5.2 | -64 | 61 | 1.1 | 0.6 | -4.8 | 1 | C |
| 4 | 390 | 5.6 | 37 | C | 4.8 | -48 | 80 | 0.5 | 1.6 | -3.6 | 2 | C |
| 5 | 429 | 9.2 | 61 | J | 6.3 | -17 | 100 | -0.9 | 4.4 | -3.5 | 3 | J |
| 6 | 532 | 18.5 | 187 | J | 15.1 | -26 | 105 | -2.1 | 5.6 | -6.9 | 12 | J |
| 7 | 513 | 16.9 | 199 | J | 12.8 | 5 | 136 | -6.2 | 5.7 | -2.0 | 9 | J |
| 8 | 498 | 12.3 | 216 | C | 13.8 | 77 | 134 | -1.3 | 5.3 | 6.6 | 11 | J |
| 9 | 510 | 11.4 | 166 | C | 13.2 | -30 | 122 | -5.0 | 4.0 | -8.8 | 7 | J |
| 10 | 528 | 12.4 | 199 | C | 14.0 | -57 | 124 | -3.6 | -0.8 | -11.3 | 8 | J |
| 11 | 513 | 10.9 | 226 | C | 16.1 | -5 | 118 | -7.2 | 10.5 | -8.5 | 5 | J |
| 12 | 510 | 11.2 | 162 | C | 16.6 | -19 | 117 | -6.3 | 7.8 | -10.8 | 8 | J |
| 13 | 511 | 11.4 | 172 | C | 13.9 | -61 | 148 | -3.9 | -2.3 | -8.3 | 10 | J |
| 14 | 522 | 10.0 | 189 | C | 12.0 | -59 | 134 | -1.3 | -0.0 | -10.0 | 7 | J |
| 15 | 541 | 13.3 | 196 | J | 12.6 | -54 | 289 | 2.0 | -9.1 | -4.7 | 7 | J |
| 16 | 553 | 10.2 | 199 | J | 12.3 | -52 | 48 | 4.5 | 0.9 | -10.0 | 6 | J |
| 17 | 555 | 8.3 | 183 | J | 13.0 | -83 | 104 | -0.3 | -3.1 | -11.3 | 6 | J |
| 18 | 539 | 9.0 | 131 | C | 9.8 | -69 | 3 | 3.4 | -2.7 | -8.4 | 3 | J |
| 19 | 549 | 10.8 | 81 | J | 12.4 | -62 | 342 | 5.5 | -4.7 | -9.9 | 1 | J |
| 20 | 554 | 12.2 | 89 | J | 11.1 | -52 | 322 | 5.4 | -6.1 | -7.5 | 1 | J |
| 21 | 537 | 11.5 | 72 | C | 10.5 | -50 | 323 | 5.3 | -5.6 | -7.0 | 1 | J |
| 22 | 515 | 8.9 | 65 | C | 9.9 | -40 | 297 | 3.4 | -7.6 | -4.9 | 2 | J |
| 23 | 479 | 4.6 | 58 | C | 10.0 | -20 | 270 | -0.0 | -9.8 | -1.7 | 2 | J |
| 24 | 472 | 5.5 | 58 | C | 9.4 | -23 | 269 | -0.1 | -8.9 | -2.0 | 2 | J |

AUG. 30, 1979 — 242

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 471 | 16.2 | 39 | J | 8.8 | -30 | 267 | -0.3 | -7.3 | -2.4 | 4 | J |
| 2 | 465 | 18.6 | 35 | J | 7.2 | 7 | 255 | -1.8 | -6.2 | 2.3 | 2 | J |
| 3 | 457 | 9.8 | 48 | C | 8.6 | -37 | 278 | 0.9 | -7.7 | -3.1 | 1 | C |
| 4 | 447 | 10.7 | 42 | C | 7.8 | -33 | 269 | -0.2 | -7.2 | -2.0 | 2 | C |
| 5 | 442 | 10.4 | 29 | C | 6.9 | -62 | 239 | -1.5 | -4.4 | -4.3 | 3 | J |
| 6 | 445 | 9.7 | 33 | C | 6.4 | -50 | 222 | -2.9 | -4.3 | -3.2 | 2 | C |
| 7 | 449 | 8.8 | 38 | C | 6.0 | -17 | 211 | -4.7 | -3.2 | -0.2 | 2 | C |
| 8 | 440 | 7.6 | 52 | J | 1.5 | 6 | 172 | -0.7 | 0.1 | 0.0 | 2 | J |
| 9 | 439 | 7.3 | 50 | J | 5.2 | -10 | 179 | -4.7 | -0.4 | -0.8 | 1 | J |
| 10 | 436 | 7.5 | 57 | J | 5.8 | -10 | 181 | -5.5 | -0.6 | -0.8 | 2 | J |
| 11 | 443 | 6.2 | 43 | C | 5.9 | -7 | 142 | -4.6 | 2.5 | -2.5 | 1 | C |
| 12 | 438 | 6.1 | 46 | C |  |  |  |  |  |  |  |  |
| 13 | 432 | 5.8 | 49 | C | 5.7 | 27 | 164 | -4.7 | 2.5 | 1.4 | 2 | J |
| 14 | 432 | 5.3 | 43 | C | 6.1 | 31 | 160 | -4.8 | 3.0 | 1.7 | 2 | J |
| 15 | 422 | 5.2 | 45 | C | 6.2 | 27 | 176 | -5.4 | 1.6 | 2.3 | 1 | J |
| 16 | 420 | 5.2 | 44 | C | 6.2 | 19 | 202 | -5.2 | -1.1 | 2.6 | 2 | J |
| 17 | 420 | 5.5 | 38 | C | 6.4 | 50 | 192 | -3.3 | 0.9 | 4.0 | 4 | J |
| 18 | 438 | 5.7 | 54 | J | 6.3 | 43 | 188 | -4.3 | 0.8 | 4.1 | 2 | J |
| 19 | 436 | 4.3 | 63 | J | 6.2 | 47 | 160 | -3.8 | 2.5 | 3.8 | 2 | J |
| 20 | 443 | 3.6 | 60 | C | 6.3 | 35 | 164 | -4.8 | 2.2 | 3.1 | 1 | J |
| 21 | 433 | 3.5 | 50 | J | 6.4 | 15 | 206 | -5.0 | -2.1 | 2.0 | 3 | J |
| 22 | 422 | 3.8 | 29 | J | 6.4 | 29 | 191 | -4.9 | -0.4 | 2.9 | 3 | J |
| 23 | 447 | 4.0 | 72 | C | 6.2 | 32 | 254 | -1.4 | -4.2 | 3.9 | 2 | J |
| 24 | 423 | 3.5 | 46 | J | 5.7 | 29 | 188 | -3.7 | -0.1 | 2.1 | 3 | J |

AUG. 31, 1979 — 243

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 3.7 | 38 | J | 6.0 | 3 | 185 | -5.5 | -0.4 | 0.4 | 2 | J |
| 2 | 430 | 4.6 | 82 | C | 5.7 | 25 | 209 | -3.4 | -1.4 | 2.2 | 4 | J |
| 3 | 423 | 4.6 | 87 | C | 5.8 | 45 | 214 | -2.4 | -0.8 | 3.2 | 4 | J |
| 4 | 437 | 4.7 | 90 | C | 5.9 | 39 | 242 | -1.6 | -2.0 | 3.6 | 3 | C |
| 5 | 431 | 4.8 | 89 | C | 5.8 | 33 | 242 | -1.7 | -2.1 | 3.3 | 4 | J |
| 6 | 440 | 4.5 | 86 | C | 6.3 | 27 | 277 | 0.5 | -2.8 | 3.6 | 5 | J |
| 7 | 471 | 6.0 | 125 | C | 9.1 | 63 | 257 | -3.0 | 1.6 | 6.5 | 5 | J |
| 8 | 474 | 8.2 | 171 | J | 11.5 | 43 | 118 | -3.7 | 9.8 | 3.0 | 4 | J |
| 9 | 477 | 7.7 | 130 | J | 10.7 | 14 | 100 | -1.7 | 9.5 | -3.0 | 3 | J |
| 10 | 441 | 7.1 | 137 | C | 10.8 | 6 | 95 | -0.9 | 9.2 | -4.6 | 3 | J |
| 11 | 436 | 7.3 | 81 | C | 9.0 | 51 | 148 | -4.7 | 6.2 | 4.1 | 2 | J |
| 12 | 413 | 6.9 | 68 | C | 9.3 | 37 | 171 | -7.1 | 3.8 | 3.9 | 2 | C |
| 13 | 442 | 7.4 | 75 | C | 8.8 | 7 | 122 | -4.2 | 6.2 | -2.8 | 3 | C |
| 14 | 436 | 7.1 | 83 | C | 7.2 | 2 | 167 | -5.9 | 1.3 | -0.5 | 3 | C |
| 15 | 436 | 6.8 | 67 | C |  |  |  |  |  |  |  |  |
| 16 | 426 | 6.6 | 68 | C | 6.1 | 21 | 178 | -5.3 | 1.0 | 1.8 | 2 | C |
| 17 | 414 | 7.2 | 53 | J | 5.8 | 0 | 204 | -5.1 | -2.1 | 0.9 | 2 | J |
| 18 | 424 | 6.7 | 70 | C | 6.0 | -9 | 174 | -4.9 | 0.2 | -0.9 | 3 | J |
| 19 | 419 | 6.2 | 68 | J | 6.1 | 26 | 134 | -3.6 | 4.3 | 1.4 | 2 | J |
| 20 | 428 | 6.4 | 87 | J | 6.5 | 24 | 132 | -3.5 | 4.4 | 1.3 | 3 | J |
| 21 | 445 | 7.4 | 77 | J | 6.2 | -57 | 107 | -0.8 | 1.6 | -4.5 | 4 | J |
| 22 | 436 | 5.8 | 66 | C | 6.3 | 25 | 90 | 0.0 | 5.6 | 1.4 | 3 | J |
| 23 | 422 | 6.1 | 64 | J | 6.2 | 2 | 114 | -2.4 | 5.2 | -0.8 | 2 | J |
| 24 | 412 | 5.5 | 43 | J | 6.4 | 12 | 122 | -3.1 | 5.1 | 0.3 | 2 | J |

SEP. 1, 1979 — 244

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 399 | 5.8 | 59 | J | 5.9 | 14 | 138 | -4.0 | 3.8 | 0.6 | 2 | J |
| 2 | 406 | 3.9 | 39 | J | 6.2 | -5 | 132 | -4.1 | 4.3 | -1.6 | 1 | J |
| 3 | 407 | 3.6 | 35 | J | 6.6 | 2 | 131 | -4.2 | 4.7 | -1.1 | 1 | J |
| 4 | 399 | 3.6 | 47 | C | 6.8 | 11 | 123 | -3.6 | 5.6 | -0.6 | 1 | C |
| 5 | 415 | 3.7 | 32 | J | 6.6 | 32 | 113 | -2.1 | 5.9 | 1.3 | 1 | J |
| 6 | 406 | 3.5 | 32 | J | 6.5 | 30 | 131 | -3.6 | 5.1 | 1.2 | 1 | J |
| 7 | 408 | 3.8 | 32 | J | 6.5 | 32 | 116 | -2.4 | 5.9 | 0.7 | 0 | C |
| 8 | 414 | 3.9 | 31 | J | 6.4 | 39 | 110 | -1.7 | 6.0 | 1.2 | 1 | J |
| 9 | 399 | 3.5 | 38 | J | 6.3 | 43 | 122 | -2.1 | 4.9 | 1.4 | 3 | J |
| 10 | 420 | 3.5 | 46 | C | 4.6 | 59 | 189 | -2.2 | 1.8 | 3.4 | 1 | J |
| 11 | 420 | 6.6 | 27 | C | 5.0 | 64 | 179 | -2.1 | 2.5 | 3.6 | 1 | J |
| 12 | 420 | 6.6 | 18 | C | 5.6 | 49 | 141 | -2.8 | 4.2 | 2.2 | 1 | J |
| 13 | 415 | 5.7 | 24 | C | 5.9 | 41 | 129 | -2.7 | 4.8 | 1.4 | 2 | J |
| 14 | 423 | 5.0 | 34 | J | 6.3 | 20 | 110 | -2.0 | 5.9 | -1.0 | 1 | J |
| 15 | 417 | 6.5 | 29 | J | 6.0 | 30 | 137 | -3.7 | 4.4 | 0.9 | 1 | J |
| 16 | 421 | 6.1 | 30 | J | 6.0 | 19 | 129 | -3.4 | 4.6 | -0.1 | 2 | J |
| 17 | 423 | 5.4 | 37 | J | 5.4 | -38 | 158 | -3.4 | 0.2 | -3.2 | 3 | J |
| 18 | 416 | 7.6 | 41 | J | 6.0 | -20 | 194 | -5.1 | -1.8 | -1.4 | 2 | J |
| 19 | 416 | 7.4 | 34 | J | 6.5 | -18 | 208 | -5.0 | -3.1 | -1.0 | 2 | J |
| 20 | 407 | 7.0 | 32 | J | 6.9 | -19 | 171 | -5.8 | 0.4 | -2.2 | 3 | J |
| 21 | 409 | 6.1 | 27 | J | 7.0 | 10 | 136 | -4.7 | 4.7 | 0.2 | 2 | J |
| 22 | 417 | 5.6 | 30 | J | 6.7 | 16 | 119 | -2.9 | 5.5 | 0.7 | 2 | J |
| 23 | 424 | 3.7 | 36 | J | 6.7 | -33 | 169 | -4.4 | 0.3 | -3.0 | 4 | J |
| 24 | 414 | 3.3 | 30 | J | 6.5 | -16 | 155 | -5.1 | 2.0 | -2.0 | 3 | J |

SEP. 2, 1979 — 245

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 438 | 2.7 | 42 | J | 6.1 | -2 | 126 | -3.1 | 4.2 | -1.1 | 3 | J |
| 2 | 444 | 2.6 | 54 | J | 6.2 | 30 | 122 | -2.4 | 4.3 | 1.6 | 3 | J |
| 3 | 455 | 2.3 | 48 | J | 6.0 | 37 | 110 | -1.4 | 4.6 | 1.9 | 3 | J |
| 4 | 492 | 2.5 | 34 | J | 6.2 | 33 | 56 | 2.8 | 5.0 | 1.8 | 2 | J |
| 5 | 497 | 2.7 | 34 | J | 6.4 | 33 | 42 | 3.9 | 4.6 | 1.9 | 1 | J |
| 6 | 505 | 2.8 | 43 | J | 6.5 | 31 | 35 | 4.5 | 4.2 | 1.7 | 1 | J |
| 7 | 499 | 3.1 | 36 | J | 6.5 | 42 | 41 | 3.4 | 4.4 | 2.2 | 2 | J |
| 8 | 471 | 2.9 | 35 | C | 6.3 | 49 | 55 | 2.3 | 5.1 | 2.4 | 2 | J |
| 9 | 426 | 2.1 | 30 | J | 6.2 | 21 | 124 | -3.1 | 5.0 | -0.6 | 2 | J |
| 10 | 425 | 2.6 | 48 | J | 5.7 | 4 | 147 | -4.7 | 2.8 | -1.3 | 1 | J |
| 11 | 420 | 2.4 | 39 | J | 5.8 | 7 | 151 | -4.9 | 2.7 | -0.9 | 1 | J |
| 12 | 416 | 3.4 | 67 | C | 5.6 | 4 | 127 | -3.4 | 3.9 | -2.1 | 0 | J |
| 13 | 415 | 3.6 | 64 | J | 5.2 | 8 | 146 | -4.1 | 2.7 | -0.9 | 1 | J |
| 14 | 417 | 3.0 | 72 | J | 5.2 | 11 | 148 | -4.2 | 2.8 | -0.5 | 1 | J |
| 15 | 419 | 2.3 | 43 | J | 5.3 | 10 | 141 | -4.0 | 3.3 | -0.7 | 1 | J |
| 16 | 424 | 4.4 | 41 | J | 4.9 | 54 | 83 | 0.2 | 2.9 | 1.6 | 4 | J |
| 17 | 429 | 4.7 | 48 | J | 5.0 | 61 | 316 | 1.0 | 0.1 | 2.8 | 4 | J |
| 18 | 431 | 4.7 | 48 | J | 4.9 | 39 | 65 | 1.3 | 3.5 | 1.4 | 3 | J |
| 19 | 423 | 4.8 | 37 | J | 5.2 | 19 | 86 | 0.3 | 5.2 | 0.2 | 1 | J |
| 20 | 415 | 4.5 | 37 | J | 5.3 | 9 | 91 | -0.1 | 5.3 | -0.5 | 1 | J |
| 21 | 417 | 4.5 | 33 | J | 5.4 | -3 | 87 | 0.3 | 5.1 | -1.4 | 1 | J |
| 22 | 406 | 5.0 | 39 | J | 5.1 | -5 | 99 | -0.8 | 4.6 | -1.3 | 2 | J |
| 23 | 401 | 4.8 | 42 | J | 5.4 | -2 | 104 | -1.3 | 5.0 | -1.1 | 1 | J |
| 24 | 386 | 5.2 | 40 | J | 5.3 | 13 | 119 | -2.0 | 3.8 | 0.2 | 3 | J |

SEP. 3, 1979 — 246

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 394 | 4.8 | 31 | J | 5.6 | -27 | 105 | -1.2 | 4.0 | -3.3 | 2 | J |
| 2 | 416 | 5.1 | 28 | J | 6.4 | -23 | 78 | 1.1 | 4.4 | -3.4 | 3 | J |
| 3 | 399 | 4.5 | 21 | J | 6.8 | -14 | 98 | -0.9 | 5.5 | -3.2 | 2 | J |
| 4 | 389 | 4.5 | 26 | J | 6.9 | 13 | 117 | -3.0 | 6.0 | -0.5 | 2 | J |
| 5 | 383 | 4.0 | 23 | C | 7.3 | 41 | 135 | -3.8 | 5.3 | 3.0 | 1 | J |
| 6 | 391 | 4.3 | 26 | J | 7.2 | 8 | 122 | -3.6 | 5.6 | -1.5 | 3 | J |
| 7 | 394 | 4.2 | 20 | J | 6.9 | -10 | 117 | -3.0 | 4.6 | -3.7 | 2 | J |
| 8 | 392 | 5.0 | 20 | J | 6.7 | 5 | 127 | -3.9 | 4.8 | -2.1 | 2 | J |
| 9 | 401 | 4.9 | 22 | J | 6.6 | 23 | 134 | -4.0 | 4.8 | -0.1 | 2 | J |
| 10 | 403 | 6.0 | 27 | J | 6.2 | 27 | 145 | -3.9 | 3.6 | 0.5 | 3 | J |
| 11 | 389 | 5.7 | 33 | C | 6.1 | 28 | 170 | -4.6 | 2.1 | 1.6 | 3 | J |
| 12 | 400 | 5.7 | 35 | C | 6.6 | -12 | 98 | -0.9 | 4.6 | -4.6 | 0 | C |
| 13 | 412 | 4.1 | 24 | J | 6.0 | -49 | 156 | -3.2 | -1.0 | -4.2 | 3 | J |
| 14 | 395 | 5.7 | 30 | J | 6.4 | 26 | 134 | -3.8 | 4.8 | 0.3 | 2 | J |
| 15 | 384 | 5.8 | 31 | J | 6.5 | 8 | 135 | -4.5 | 4.4 | -1.4 | 1 | J |
| 16 | 396 | 6.1 | 29 | C | 6.5 | 22 | 114 | -2.3 | 5.5 | -0.2 | 2 | C |
| 17 | 389 | 6.4 | 31 | C | 6.5 | 16 | 124 | -3.5 | 5.4 | -0.4 | 1 | C |
| 18 | 375 | 7.7 | 24 | C | 6.6 | 12 | 126 | -3.6 | 5.2 | -0.4 | 1 | C |
| 19 | 383 | 10.5 | 22 | J | 6.2 | -27 | 118 | -2.4 | 3.6 | -3.8 | 2 | J |
| 20 | 375 | 10.3 | 17 | J | 6.7 | -8 | 133 | -4.5 | 4.4 | -2.1 | 2 | J |
| 21 | 371 | 10.5 | 17 | J | 6.9 | 11 | 135 | -4.7 | 4.9 | 0.3 | 1 | J |
| 22 | 333 | 9.0 | 72 | L | 7.0 | 28 | 135 | -3.8 | 4.3 | 2.1 | 3 | C |
| 23 | 301 | 9.1 | 116 | L | 7.7 | 57 | 132 | -2.7 | 4.0 | 5.5 | 2 | C |
| 24 | 301 | 9.8 | 112 | L | 7.5 | 52 | 125 | -2.5 | 4.7 | 4.9 | 2 | C |

09/04/79 – 09/11/79

SEP. 4, 1979 247

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 308 | 10.9 | 119 | L | 7.2 | 41 | 122 | -2.9 | 5.4 | 3.6 | 1 | C |
| 2 | 323 | 9.4 | 164 | L | 7.2 | 49 | 127 | -2.6 | 4.5 | 3.9 | 3 | C |
| 3 | 347 | 10.5 | 190 | L | 6.7 | 39 | 134 | -3.3 | 4.3 | 2.7 | 2 | C |
| 4 | 341 | 8.4 | 178 | L | 6.8 | 9 | 112 | -2.3 | 5.6 | -0.9 | 3 | C |
| 5 | 403 | 8.4 | 83 | C | 7.0 | -9 | 130 | -3.8 | 3.9 | -2.6 | 3 | C |
| 6 | 413 | 7.7 | 83 | C | 7.3 | 8 | 112 | -1.3 | 3.1 | -0.9 | 6 | C |
| 7 | 347 | 7.4 | 311 | L | 7.1 | 37 | 115 | -2.0 | 5.3 | 1.1 | 3 | C |
| 8 | 347 | 7.7 | 257 | L | 6.6 | 13 | 142 | -3.1 | 2.6 | -0.4 | 4 | C |
| 9 | 358 | 6.2 | 263 | L | 7.4 | 70 | 165 | -1.8 | 3.1 | 4.1 | 5 | C |
| 10 | 361 | 6.2 | 264 | L | 7.7 | 71 | 197 | -2.2 | 3.1 | 6.0 | 3 | C |
| 11 | 367 | 7.8 | 260 | L | | | | | | | | |
| 12 | 356 | 8.9 | 263 | L | 6.1 | 24 | 164 | -3.3 | 1.6 | 0.7 | 4 | C |
| 13 | 405 | 8.0 | 84 | C | 6.0 | 24 | 183 | -5.1 | 1.0 | 2.1 | 1 | C |
| 14 | 410 | 7.8 | 82 | C | 5.7 | 25 | 162 | -4.3 | 2.2 | 1.1 | 2 | C |
| 15 | 416 | 7.6 | 85 | C | 5.7 | -17 | 146 | -4.2 | 1.7 | -2.7 | 2 | C |
| 16 | 400 | 7.7 | 159 | A | | | | | | | | |
| 17 | 401 | 7.4 | 152 | A | | | | | | | | |
| 18 | 404 | 7.5 | 151 | A | | | | | | | | |
| 19 | 398 | 8.0 | 145 | A | | | | | | | | |
| 20 | 395 | 7.3 | 150 | A | | | | | | | | |
| 21 | 411 | 7.2 | 72 | C | 6.5 | 3 | 137 | -4.2 | 3.9 | -0.5 | 3 | C |
| 22 | 421 | 7.1 | 55 | C | 6.7 | 60 | 168 | -3.0 | 1.7 | 5.2 | 1 | C |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

SEP. 5, 1979 248

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 429 | 7.5 | 66 | C | | | | | | | | |
| 2 | 432 | 7.0 | 61 | C | 8.0 | -7 | 119 | -3.3 | 5.7 | -2.3 | 3 | C |
| 3 | 438 | 6.8 | 60 | C | 8.0 | -18 | 114 | -2.9 | 5.5 | -3.9 | 3 | C |
| 4 | 444 | 7.2 | 60 | C | 8.0 | -11 | 105 | -1.9 | 6.1 | -3.6 | 3 | C |
| 5 | 428 | 7.3 | 67 | C | 8.0 | 3 | 111 | -2.7 | 6.8 | -2.4 | 2 | C |
| 6 | 421 | 8.3 | 159 | A | | | | | | | | |
| 7 | 433 | 8.0 | 81 | C | 7.6 | -2 | 157 | -6.2 | 2.2 | -1.4 | 3 | C |
| 8 | 433 | 8.2 | 83 | C | 7.6 | -8 | 146 | -5.4 | 2.7 | -2.7 | 3 | C |
| 9 | 435 | 8.5 | 79 | C | 7.4 | 19 | 187 | -5.6 | 0.4 | 2.1 | 3 | C |
| 10 | 435 | 8.3 | 79 | C | 7.2 | -5 | 212 | -5.2 | -2.9 | 1.4 | 3 | C |
| 11 | 423 | 8.0 | 146 | A | 7.4 | 24 | 217 | -5.2 | -1.7 | 4.6 | 0 | C |
| 12 | 431 | 8.2 | 72 | C | 7.5 | -26 | 118 | -3.1 | 3.1 | -5.8 | 1 | C |
| 13 | 440 | 8.3 | 71 | C | 7.7 | -14 | 108 | -1.9 | 4.2 | -4.6 | 4 | C |
| 14 | 434 | 7.8 | 69 | C | 7.6 | -19 | 109 | -2.2 | 4.2 | -5.2 | 2 | C |
| 15 | 440 | 8.0 | 76 | C | 7.0 | 1 | 133 | -2.6 | 2.6 | -1.3 | 5 | C |
| 16 | 425 | 8.1 | 68 | C | 7.6 | 17 | 116 | -3.0 | 6.5 | -0.8 | 2 | C |
| 17 | 416 | 7.7 | 69 | C | 7.6 | -18 | 133 | -4.7 | 3.7 | -4.1 | 2 | C |
| 18 | 412 | 7.5 | 66 | C | 7.4 | -31 | 154 | -4.8 | 1.1 | -3.8 | 3 | C |
| 19 | 433 | 8.0 | 74 | C | 6.9 | -4 | 108 | -1.9 | 5.3 | -2.1 | 3 | C |
| 20 | 428 | 7.9 | 75 | C | 7.0 | -22 | 108 | -1.8 | 4.8 | -3.8 | 2 | C |
| 21 | 425 | 7.8 | 69 | C | 7.0 | -17 | 119 | -2.5 | 4.1 | -2.5 | 3 | C |
| 22 | 414 | 8.0 | 66 | C | 7.2 | 28 | 130 | -3.7 | 5.0 | 2.1 | 2 | C |
| 23 | 405 | 8.1 | 66 | C | 7.1 | -15 | 151 | -5.4 | 2.7 | -2.2 | 2 | C |
| 24 | 399 | 8.1 | 63 | C | 6.9 | 5 | 137 | -4.6 | 4.4 | -0.3 | 2 | C |

SEP. 6, 1979 249

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 8.0 | 49 | C | 7.3 | -19 | 160 | -6.4 | 1.8 | -2.8 | 1 | C |
| 2 | 388 | 8.1 | 51 | C | 7.8 | -25 | 168 | -6.8 | 0.6 | -3.5 | 1 | C |
| 3 | 391 | 7.4 | 55 | C | 8.1 | -42 | 224 | -4.1 | -5.2 | -3.8 | 2 | C |
| 4 | 377 | 7.9 | 54 | C | 8.8 | -37 | 173 | -6.3 | -0.8 | -4.7 | 4 | C |
| 5 | 380 | 8.0 | 52 | C | | | | | | | | |
| 6 | 376 | 8.8 | 50 | C | 10.5 | -29 | 125 | -5.0 | 4.4 | -7.4 | 3 | C |
| 7 | 375 | 9.0 | 49 | C | 11.5 | 14 | 139 | -7.8 | 7.0 | -0.9 | 5 | C |
| 8 | 385 | 7.6 | 48 | C | | | | | | | | |
| 9 | 383 | 7.3 | 45 | C | 8.0 | 15 | 94 | -0.5 | 6.8 | -2.1 | 3 | C |
| 10 | 363 | 6.6 | 47 | C | 7.1 | 2 | 121 | -3.1 | 4.4 | -2.7 | 3 | C |
| 11 | 357 | 7.0 | 53 | C | 6.3 | -26 | 168 | -5.1 | -0.6 | -2.8 | 2 | C |
| 12 | 370 | 7.0 | 63 | C | 5.4 | 5 | 125 | -2.6 | 3.3 | -1.7 | 3 | C |
| 13 | 376 | 6.8 | 62 | C | 5.6 | 9 | 104 | -1.2 | 4.8 | -2.1 | 1 | C |
| 14 | 370 | 6.8 | 63 | C | 5.6 | -2 | 167 | -4.4 | 0.8 | -0.7 | 3 | C |
| 15 | 384 | 6.3 | 58 | C | 5.3 | -29 | 150 | -2.6 | 0.5 | -2.2 | 4 | C |
| 16 | 331 | 3.2 | 322 | L | 4.8 | -55 | 225 | -1.4 | -2.5 | -2.0 | 3 | C |
| 17 | 346 | 5.7 | 322 | L | 5.2 | 79 | 251 | -0.3 | 0.9 | 4.1 | 3 | C |
| 18 | 358 | 5.6 | 339 | L | 5.6 | 64 | 146 | -1.9 | 2.8 | 3.9 | 2 | C |
| 19 | 350 | 5.4 | 301 | L | 5.6 | 15 | 183 | -4.6 | 0.2 | 1.2 | 3 | C |
| 20 | 324 | 5.8 | 250 | L | 5.5 | -7 | 200 | -4.9 | -1.9 | -0.2 | 2 | C |
| 21 | 323 | 6.1 | 259 | L | 5.4 | -1 | 156 | -4.2 | 1.8 | -0.5 | 3 | C |
| 22 | 317 | 5.4 | 241 | L | 5.3 | 9 | 158 | -4.3 | 1.8 | 0.4 | 2 | C |
| 23 | 311 | 4.0 | 285 | L | 5.3 | -11 | 89 | 0.1 | 4.2 | -1.7 | 2 | C |
| 24 | 327 | 6.3 | 259 | L | 5.4 | 66 | 90 | 0.0 | 3.0 | 4.2 | 1 | C |

SEP. 7, 1979 250

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 391 | 6.2 | 35 | C | 5.2 | 82 | 248 | -0.3 | 0.5 | 5.0 | 1 | C |
| 2 | 332 | 6.9 | 234 | L | 5.4 | -31 | 112 | -0.9 | 1.7 | -1.8 | 4 | C |
| 3 | 325 | 8.7 | 191 | L | | | | | | | | |
| 4 | 317 | 6.2 | 239 | L | 5.0 | 24 | 158 | -3.8 | 2.1 | 1.2 | 2 | C |
| 5 | 306 | 7.8 | 184 | L | 5.1 | 32 | 200 | -3.8 | -0.4 | 2.9 | 2 | C |
| 6 | 316 | 7.7 | 198 | L | 5.3 | 25 | 168 | -4.7 | 1.9 | 1.6 | 0 | C |
| 7 | 328 | 9.3 | 184 | L | 5.2 | 39 | 168 | -3.9 | 2.2 | 2.5 | 1 | C |
| 8 | 319 | 10.0 | 180 | L | 5.1 | 6 | 185 | -5.0 | -0.1 | 0.7 | 1 | C |
| 9 | 346 | 12.1 | 100 | L | 5.1 | -9 | 177 | -5.0 | -0.2 | -0.8 | 1 | C |
| 10 | 345 | 12.2 | 82 | L | 5.1 | -2 | 170 | -5.0 | 0.7 | -0.6 | 0 | C |
| 11 | 348 | 6.6 | 49 | L | 4.9 | -3 | 166 | -4.8 | 0.9 | -0.9 | 0 | C |
| 12 | 341 | 8.0 | 76 | L | 5.0 | -6 | 161 | -4.6 | 1.1 | -1.3 | 1 | C |
| 13 | 347 | 6.2 | 40 | J | 4.7 | -8 | 173 | -4.1 | 0.1 | -0.8 | 1 | J |
| 14 | 347 | 7.9 | 56 | J | 5.1 | -11 | 184 | -4.8 | -0.8 | -0.6 | 1 | J |
| 15 | 354 | 7.6 | 64 | J | 5.3 | -14 | 162 | -4.5 | 0.7 | -1.7 | 1 | J |
| 16 | 345 | 6.8 | 48 | J | 5.3 | -20 | 167 | -4.5 | 0.2 | -2.0 | 2 | J |
| 17 | 342 | 6.3 | 40 | J | 5.1 | -26 | 175 | -4.5 | -0.5 | -2.2 | 1 | J |
| 18 | 343 | 5.8 | 29 | J | 4.8 | -27 | 187 | -4.2 | -1.2 | -1.9 | 1 | J |
| 19 | 346 | 7.5 | 40 | J | 5.3 | -20 | 157 | -4.2 | 1.2 | -2.1 | 2 | J |
| 20 | 343 | 6.8 | 42 | J | 4.7 | -10 | 161 | -3.6 | 1.0 | -1.0 | 2 | J |
| 21 | 336 | 8.2 | 18 | J | 4.7 | 22 | 191 | -4.2 | -0.4 | 1.9 | 1 | J |
| 22 | 336 | 7.2 | 18 | J | 4.8 | -5 | 180 | -4.6 | -0.1 | -0.4 | 1 | J |
| 23 | 335 | 7.1 | 15 | J | 4.8 | -24 | 170 | -4.2 | 0.4 | -2.0 | 1 | J |
| 24 | 336 | 7.0 | 16 | J | 4.8 | -5 | 175 | -4.7 | 0.3 | -0.5 | 1 | J |

SEP. 8, 1979 251

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 334 | 7.0 | 17 | J | 4.7 | -14 | 176 | -4.5 | 0.1 | -1.2 | 1 | J |
| 2 | 336 | 7.3 | 16 | J | 4.9 | -18 | 177 | -4.6 | -0.1 | -1.5 | 1 | J |
| 3 | 346 | 9.6 | 31 | J | 4.8 | 4 | 116 | -1.9 | 3.9 | -0.8 | 2 | J |
| 4 | 346 | 8.1 | 27 | J | 4.6 | -4 | 116 | -1.7 | 3.2 | -1.4 | 2 | J |
| 5 | 345 | 8.7 | 27 | J | 4.6 | 1 | 105 | -1.1 | 3.7 | -1.4 | 2 | J |
| 6 | 353 | 8.6 | 25 | J | 4.8 | -31 | 90 | 0.0 | 2.4 | -3.6 | 2 | J |
| 7 | 346 | 9.0 | 27 | J | 5.1 | 21 | 132 | -2.5 | 3.1 | -0.0 | 3 | J |
| 8 | 344 | 10.3 | 25 | J | 5.4 | -32 | 130 | -2.8 | 1.5 | -4.1 | 1 | J |
| 9 | 341 | 10.7 | 21 | J | 5.6 | -14 | 133 | -3.4 | 2.4 | -3.0 | 2 | J |
| 10 | 340 | 10.7 | 21 | J | 5.7 | 9 | 119 | -2.5 | 4.3 | -1.9 | 2 | J |
| 11 | 343 | 10.6 | 22 | J | 4.9 | 42 | 104 | -0.8 | 4.6 | 0.7 | 2 | J |
| 12 | 348 | 9.4 | 34 | J | 3.9 | 18 | 118 | -1.2 | 2.3 | -0.6 | 3 | J |
| 13 | 357 | 4.8 | 41 | J | 6.0 | 32 | 331 | 4.4 | -0.3 | 3.9 | 1 | J |
| 14 | 357 | 4.1 | 28 | J | 6.2 | 22 | 328 | 4.7 | -1.3 | 3.5 | 1 | J |
| 15 | 357 | 6.1 | 31 | J | 5.3 | 15 | 324 | 4.0 | -1.9 | 2.6 | 1 | J |
| 16 | 361 | 12.9 | 23 | J | 3.5 | 51 | 329 | 1.1 | 0.1 | 1.8 | 3 | J |
| 17 | 358 | 13.6 | 20 | J | 2.9 | -28 | 290 | 0.8 | -2.4 | -0.3 | 1 | J |
| 18 | 344 | 13.2 | 18 | J | 3.0 | -36 | 156 | -1.3 | 0.2 | -1.2 | 2 | J |
| 19 | 349 | 9.1 | 29 | J | 5.0 | -2 | 127 | -2.8 | 3.5 | -1.2 | 2 | J |
| 20 | 352 | 11.2 | 24 | J | 4.2 | -6 | 133 | -2.5 | 2.5 | -1.1 | 2 | J |
| 21 | 357 | 12.2 | 32 | J | 3.3 | -40 | 149 | -1.6 | 0.6 | -1.8 | 2 | J |
| 22 | 380 | 10.7 | 32 | J | 3.5 | -19 | 328 | 2.6 | -1.8 | -0.7 | 1 | J |
| 23 | 379 | 10.6 | 30 | J | 3.3 | -16 | 327 | 2.6 | -1.8 | -0.5 | 1 | J |
| 24 | 363 | 11.1 | 34 | J | 1.3 | -21 | 14 | 0.8 | 0.1 | -0.4 | 1 | J |

SEP. 9, 1979 252

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 9.6 | 37 | J | 2.2 | -33 | 327 | 1.4 | -1.1 | -0.9 | 1 | J |
| 2 | 367 | 6.0 | 46 | J | 4.2 | -41 | 314 | 1.9 | -2.6 | -1.8 | 2 | J |
| 3 | 360 | 4.1 | 41 | J | 5.1 | -32 | 316 | 3.1 | -3.6 | -1.7 | 1 | J |
| 4 | 365 | 4.4 | 37 | J | 5.0 | -28 | 310 | 2.8 | -4.0 | -1.1 | 1 | J |
| 5 | 362 | 4.3 | 33 | J | 4.9 | -30 | 308 | 2.6 | -4.0 | -1.0 | 1 | J |
| 6 | 356 | 4.9 | 34 | J | 4.7 | -67 | 295 | 0.6 | -2.6 | -2.5 | 3 | J |
| 7 | 344 | 5.3 | 42 | J | 4.5 | -34 | 310 | 2.4 | -3.7 | -0.9 | 1 | J |
| 8 | 338 | 5.1 | 19 | J | 4.5 | -18 | 328 | 3.5 | -2.6 | -0.0 | 1 | J |
| 9 | 336 | 5.3 | 22 | J | 4.5 | -28 | 313 | 2.6 | -3.5 | -0.2 | 1 | J |
| 10 | 341 | 5.3 | 26 | J | 4.4 | -33 | 316 | 2.3 | -3.0 | -0.5 | 2 | J |
| 11 | 340 | 5.2 | 21 | J | 4.8 | -9 | 311 | 3.0 | -3.3 | 1.4 | 1 | J |
| 12 | 332 | 5.1 | 22 | J | 4.8 | -1 | 316 | 3.4 | -2.7 | 1.8 | 1 | J |
| 13 | 332 | 6.4 | 24 | J | 4.3 | 2 | 304 | 2.3 | -2.8 | 2.0 | 1 | J |
| 14 | 330 | 7.0 | 20 | J | 5.1 | -16 | 291 | 1.6 | -4.3 | 1.1 | 2 | J |
| 15 | 329 | 8.1 | 23 | J | 3.8 | -26 | 291 | 1.1 | -3.2 | 0.1 | 2 | J |
| 16 | 324 | 9.6 | 25 | J | 3.4 | -34 | 321 | 1.8 | -2.0 | -0.8 | 2 | J |
| 17 | 328 | 10.6 | 13 | J | 3.8 | -61 | 121 | -0.9 | 0.1 | -3.5 | 1 | J |
| 18 | 322 | 11.4 | 15 | J | 4.3 | -65 | 129 | -1.1 | -0.0 | -4.0 | 1 | J |
| 19 | 314 | 11.6 | 14 | J | 4.8 | -47 | 75 | 0.8 | 1.9 | -4.0 | 2 | J |
| 20 | 310 | 13.3 | 14 | J | 4.7 | -39 | 67 | 1.4 | 2.4 | -3.6 | 1 | J |
| 21 | 313 | 12.9 | 16 | J | 4.9 | -28 | 64 | 1.9 | 3.3 | -3.1 | 1 | J |
| 22 | 310 | 13.7 | 17 | J | 4.9 | -18 | 60 | 2.3 | 3.6 | -2.3 | 1 | J |
| 23 | 311 | 12.9 | 14 | J | 5.0 | -26 | 77 | 1.0 | 3.8 | -3.0 | 1 | J |
| 24 | 307 | 15.7 | 16 | C | 4.0 | -64 | 75 | 0.4 | 0.9 | -3.7 | 1 | J |

SEP. 10, 1979 253

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 319 | 18.4 | 16 | C | 5.1 | -56 | 91 | -0.0 | 1.8 | -4.7 | 1 | J |
| 2 | 329 | 21.3 | 22 | J | 6.0 | -13 | 55 | 3.1 | 4.0 | -2.3 | 2 | J |
| 3 | 324 | 22.3 | 25 | J | 6.6 | 37 | 24 | 4.7 | 3.2 | 3.1 | 2 | J |
| 4 | 332 | 13.5 | 16 | J | 7.8 | 34 | 36 | 5.1 | 4.9 | 2.8 | 2 | J |
| 5 | 330 | 18.1 | 20 | J | 7.0 | 22 | 46 | 3.8 | 4.5 | 0.5 | 4 | J |
| 6 | 332 | 14.4 | 15 | J | 7.5 | 25 | 53 | 3.7 | 5.7 | 0.5 | 3 | J |
| 7 | 325 | 15.3 | 9 | C | 9.3 | 19 | 63 | 3.9 | 8.2 | -1.1 | 1 | J |
| 8 | 330 | 13.3 | 11 | J | 9.4 | 9 | 70 | 3.1 | 8.2 | -3.2 | 2 | J |
| 9 | 330 | 11.4 | 13 | J | 9.1 | 7 | 71 | 2.8 | 7.5 | -3.6 | 2 | J |
| 10 | 330 | 16.3 | 10 | J | 9.2 | 0 | 75 | 2.4 | 7.3 | -4.9 | 1 | J |
| 11 | 322 | 18.7 | 10 | J | 8.5 | -8 | 86 | 0.6 | 6.2 | -5.7 | 1 | J |
| 12 | 318 | 20.6 | 11 | J | 8.4 | 3 | 84 | 0.9 | 6.9 | -4.7 | 1 | J |
| 13 | 316 | 27.9 | 13 | J | 7.6 | -4 | 89 | 0.1 | 6.1 | -4.6 | 1 | J |
| 14 | 317 | 29.1 | 17 | J | 7.1 | -1 | 89 | 0.1 | 5.9 | -3.8 | 1 | J |
| 15 | 320 | 34.3 | 16 | J | 7.1 | -4 | 72 | 2.2 | 5.6 | -3.7 | 1 | J |
| 16 | 317 | 27.6 | 15 | J | 8.7 | 3 | 83 | 1.0 | 7.6 | -3.3 | 3 | J |
| 17 | 317 | 17.8 | 11 | J | 10.3 | -10 | 79. | 1.9 | 8.4 | -5.5 | 1 | J |
| 18 | 318 | 16.5 | 9 | J | 10.1 | -21 | 81 | 1.5 | 7.4 | -6.5 | 1 | J |
| 19 | 315 | 15.5 | 11 | J | 10.3 | -17 | 88 | 0.3 | 8.5 | -5.8 | 1 | J |
| 20 | 313 | 13.3 | 13 | J | 10.3 | -22 | 92 | -0.3 | 8.2 | -6.2 | 1 | J |
| 21 | 309 | 16.6 | 25 | J | 8.2 | -51 | 126 | -2.7 | 2.3 | -6.4 | 4 | J |
| 22 | 304 | 15.1 | 29 | J | 7.4 | -50 | 136 | -3.3 | 2.0 | -6.0 | 2 | J |
| 23 | 302 | 14.3 | 26 | J | 7.4 | -50 | 129 | -3.0 | 2.5 | -6.3 | 0 | J |
| 24 | 302 | 14.3 | 56 | C | 6.2 | -59 | 181 | -2.6 | -0.9 | -4.3 | 4 | J |

SEP. 11, 1979 254

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 295 | 13.6 | 55 | C | 6.6 | -10 | 128 | -4.0 | 4.6 | -2.3 | 1 | C |
| 2 | 309 | 13.5 | 60 | C | 5.8 | 2 | 65 | 2.0 | 4.3 | -0.9 | 3 | C |
| 3 | 310 | 14.0 | 55 | C | 6.4 | -14 | 48 | 4.0 | 3.8 | -2.7 | 2 | C |
| 4 | 312 | 13.1 | 38 | J | 7.0 | -13 | 74 | 1.8 | 5.3 | -3.5 | 2 | J |
| 5 | 296 | 14.7 | 41 | C | 6.8 | -15 | 65 | 2.5 | 4.4 | -3.6 | 3 | J |
| 6 | 305 | 14.4 | 35 | J | 7.4 | -2 | 86 | 0.5 | 6.3 | -3.3 | 2 | J |
| 7 | 312 | 17.2 | 35 | J | 7.7 | -12 | 79 | 1.4 | 5.4 | -4.7 | 2 | J |
| 8 | 317 | 17.3 | 31 | J | 8.1 | -2 | 80 | 1.4 | 6.7 | -4.3 | 0 | J |
| 9 | 310 | 17.2 | 12 | C | 9.4 | -22 | 95 | -0.7 | 5.4 | -7.6 | 1 | C |
| 10 | 308 | 19.6 | 12 | C | 9.3 | -42 | 96 | -0.7 | 2.1 | -8.9 | 1 | C |
| 11 | 307 | 22.5 | 17 | C | 8.2 | -65 | 84 | 0.3 | -1.2 | -7.6 | 3 | C |
| 12 | 308 | 15.4 | 24 | J | 10.6 | -23 | 73 | 2.8 | 5.3 | -8.5 | 2 | J |
| 13 | 314 | 15.7 | 16 | J | 10.1 | -13 | 95 | -0.8 | 6.8 | -7.1 | 2 | J |
| 14 | 299 | 11.2 | 10 | J | 10.9 | 1 | 90 | 0.0 | 9.4 | -5.5 | 1 | J |
| 15 | 297 | 22.7 | 17 | J | 9.3 | -27 | 72 | 1.9 | 3.6 | -5.7 | 6 | J |
| 16 | 296 | 19.4 | 17 | J | 7.5 | -50 | 40 | 3.3 | 0.2 | -5.8 | 4 | J |
| 17 | 298 | 10.4 | 23 | J | 7.8 | -55 | 2 | 4.4 | -2.3 | -5.8 | 2 | J |
| 18 | 293 | 11.6 | 34 | C | 7.2 | -37 | 31 | 4.5 | 1.2 | -4.7 | 3 | C |
| 19 | 295 | 12.8 | 32 | C | 7.1 | -13 | 48 | 4.5 | 4.4 | -3.0 | 1 | C |
| 20 | 294 | 13.8 | 44 | C | 7.4 | -35 | 315 | 3.4 | -4.2 | -2.4 | 5 | J |
| 21 | 310 | 15.8 | 51 | C | 6.2 | 9 | 63 | 2.4 | 4.8 | -0.3 | 4 | J |
| 22 | 312 | 16.1 | 42 | J | 9.6 | -3 | 46 | 6.4 | 6.4 | -1.8 | 3 | J |
| 23 | 305 | 18.6 | 62 | C | 8.8 | -25 | 319 | 5.1 | -5.0 | -2.2 | 4 | C |
| 24 | 311 | 15.9 | 81 | J | 7.0 | -18 | 323 | 5.2 | -4.2 | -1.2 | 2 | J |

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09/12/79 – 09/19/79

### SEP. 12, 1979

255

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 306 | 16.2 | 70 | C | 7.3 | -22 | 318 | 4.8 | -4.8 | -1.5 | 2 | C |
| 2 | 304 | 15.3 | 66 | C | 8.3 | -19 | 308 | 4.7 | -6.4 | -1.0 | 2 | C |
| 3 | 319 | 17.9 | 71 | C | 7.7 | 47 | 346 | 4.9 | 0.4 | 5.5 | 2 | J |
| 4 | 320 | 20.3 | 48 | C | 11.4 | 46 | 346 | 7.4 | 0.9 | 8.1 | 3 | C |
| 5 | 327 | 18.4 | 33 | J | 12.0 | 58 | 14 | 6.1 | 5.3 | 8.7 | 2 | J |
| 6 | 318 | 18.7 | 56 | J | 11.5 | 24 | 348 | 9.3 | 0.1 | 4.7 | 5 | J |
| 7 | 334 | 19.4 | 41 | J | 11.7 | 0 | 310 | 7.3 | -7.6 | 4.1 | 3 | J |
| 8 | 322 | 20.5 | 45 | C | 12.4 | 17 | 332 | 10.4 | -2.9 | 5.9 | 2 | J |
| 9 | 316 | 19.9 | 45 | C | 12.6 | 61 | 357 | 6.0 | 5.6 | 9.2 | 3 | J |
| 10 | 329 | 19.8 | 48 | C | 11.9 | 58 | 20 | 5.9 | 7.4 | 7.1 | 1 | J |
| 11 | 332 | 20.5 | 43 | C | 12.3 | 61 | 6 | 5.6 | 6.3 | 8.1 | 4 | J |
| 12 | 332 | 21.8 | 48 | C | 12.6 | 64 | 9 | 5.3 | 6.9 | 8.6 | 3 | J |
| 13 | 326 | 17.3 | 38 | J | 12.1 | 39 | 58 | 4.7 | 10.2 | 1.9 | 4 | J |
| 14 | 324 | 15.7 | 30 | J | 12.8 | 34 | 61 | 5.1 | 11.6 | 1.2 | 2 | J |
| 15 | 324 | 13.7 | 33 | J | 12.8 | 39 | 62 | 4.6 | 11.4 | 2.7 | 2 | J |
| 16 | 319 | 13.4 | 29 | J | 12.3 | 40 | 69 | 3.3 | 11.3 | 3.1 | 2 | J |
| 17 | 319 | 15.3 | 34 | C | 11.6 | 25 | 56 | 5.7 | 9.7 | 1.0 | 3 | J |
| 18 | 307 | 17.5 | 41 | C | 10.2 | 1 | 75 | 2.5 | 8.8 | -3.1 | 3 | J |
| 19 | 316 | 15.4 | 48 | J | 9.5 | 23 | 51 | 4.7 | 6.5 | 1.3 | 5 | J |
| 20 | 330 | 13.1 | 31 | J | 10.4 | 0 | 82 | 1.4 | 9.5 | -2.5 | 3 | J |
| 21 | 325 | 15.3 | 43 | J | 9.1 | 49 | 57 | 3.1 | 6.2 | 5.3 | 3 | J |
| 22 | 342 | 13.8 | 29 | J | 10.5 | -26 | 115 | -3.8 | 7.1 | -6.0 | 3 | J |
| 23 | 340 | 13.7 | 26 | J | 11.1 | -15 | 111 | -3.8 | 9.1 | -4.8 | 2 | J |
| 24 | 336 | 14.1 | 29 | J | 10.5 | 20 | 97 | -1.2 | 10.1 | 1.4 | 2 | J |

### SEP. 13, 1979

256

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 334 | 12.7 | 23 | J | 10.1 | 14 | 90 | 0.0 | 9.6 | 0.1 | 3 | J |
| 333 | 14.7 | 28 | J | 9.3 | 9 | 93 | -0.5 | 8.9 | -0.9 | 2 | J |
| 335 | 16.0 | 33 | J | 9.5 | 24 | 111 | -2.9 | 8.5 | 1.2 | 3 | C |
| 329 | 15.3 | 37 | J | 7.5 | 51 | 120 | -2.2 | 5.3 | 3.7 | 3 | C |
| 334 | 14.4 | 44 | J | 6.4 | 39 | 260 | -0.8 | -2.8 | 5.3 | 2 | J |
| 333 | 14.6 | 42 | J | 6.8 | 63 | 257 | -0.6 | -0.1 | 6.2 | 3 | J |
| 333 | 13.9 | 36 | J | 7.1 | -4 | 259 | -1.2 | -5.6 | 2.6 | 3 | J |
| 329 | 12.7 | 26 | J | 7.3 | -6 | 275 | 0.6 | -6.1 | 2.9 | 3 | J |
| 330 | 15.3 | 30 | J | 7.3 | 8 | 269 | -0.1 | -5.4 | 4.6 | 2 | J |
| 330 | 14.6 | 21 | J | 9.8 | 36 | 311 | 5.1 | -1.7 | 8.0 | 2 | J |
| 325 | 11.5 | 25 | J | 9.3 | 52 | 336 | 5.1 | 2.2 | 7.2 | 2 | J |
| 307 | 7.7 | 33 | J | 8.6 | 10 | 321 | 6.4 | -3.4 | 4.1 | 2 | J |
| 330 | 9.5 | 51 | J | 6.7 | 27 | 3 | 5.6 | 1.8 | 2.2 | 2 | J |
| 332 | 10.9 | 60 | C | 7.4 | 2 | 49 | 4.1 | 4.2 | -2.3 | 4 | J |
| 334 | 10.2 | 56 | C | 6.7 | 12 | 55 | 3.5 | 5.0 | -1.3 | 3 | J |
| 334 | 10.0 | 73 | J | 6.2 | 17 | 317 | 2.8 | -1.8 | 2.2 | 5 | J |
| 341 | 9.5 | 84 | J | 3.9 | 19 | 319 | 2.1 | -1.3 | 1.6 | 3 | J |
| 322 | 8.3 | 48 | J | 6.1 | -14 | 8 | 5.4 | 0.2 | -1.5 | 3 | J |
| 330 | 8.4 | 50 | J | 6.1 | 30 | 344 | 2.8 | -0.3 | 1.9 | 5 | J |
| 366 | 9.1 | 52 | J | 7.3 | 4 | 245 | -3.0 | -6.0 | 2.1 | 2 | J |
| 351 | 8.6 | 58 | J | 6.9 | -25 | 276 | 0.5 | -5.1 | -1.1 | 5 | J |
| 331 | 8.3 | 55 | J | 6.6 | 12 | 18 | 4.8 | 1.8 | 0.7 | 4 | J |
| 342 | 9.1 | 59 | J | 7.0 | 1 | 51 | 3.8 | 4.6 | -0.8 | 4 | J |
| 344 | 8.9 | 49 | J | 7.5 | 56 | 10 | 4.0 | 1.9 | 5.7 | 2 | J |

### SEP. 14, 1979

257

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 330 | 9.6 | 47 | J | 6.9 | 26 | 33 | 4.9 | 3.7 | 2.0 | 2 | J |
| 2 | 318 | 8.3 | 59 | J | 6.4 | 1 | 28 | 5.3 | 2.7 | -0.6 | 2 | J |
| 3 | 321 | 8.4 | 68 | J | 6.1 | 13 | 357 | 5.5 | 0.1 | 1.3 | 2 | J |
| 4 | 327 | 9.6 | 50 | C | 6.3 | -11 | 353 | 5.7 | -1.0 | -0.8 | 2 | J |
| 5 | 321 | 7.7 | 47 | J | 6.6 | -25 | 345 | 5.4 | -2.4 | -1.8 | 2 | J |
| 6 | 333 | 7.8 | 39 | J | 6.2 | -15 | 303 | 3.1 | -4.9 | 0.7 | 2 | J |
| 7 | 344 | 8.6 | 41 | J | 5.8 | -2 | 291 | 1.7 | -3.9 | 2.0 | 3 | J |
| 8 | 352 | 10.2 | 49 | J | 5.3 | -8 | 275 | 0.2 | -2.1 | 0.9 | 5 | J |
| 9 | 356 | 10.7 | 33 | J | 5.2 | -35 | 256 | -0.7 | -3.6 | -0.2 | 4 | J |
| 10 | 348 | 10.8 | 29 | J | 5.1 | -29 | 262 | -0.4 | -2.9 | 0.2 | 4 | J |
| 11 | 356 | 10.7 | 0 | C | 5.3 | -31 | 234 | -2.6 | -4.4 | -0.1 | 0 | C |
| 12 | 347 | 10.5 | 29 | C | 5.4 | 11 | 272 | 0.2 | -3.7 | 3.7 | 1 | C |
| 13 | 335 | 11.6 | 27 | J | 5.3 | 17 | 316 | 3.4 | -2.0 | 3.0 | 2 | J |
| 14 | 335 | 12.4 | 22 | J | 5.8 | 9 | 315 | 4.0 | -2.9 | 2.9 | 1 | C |
| 15 | 333 | 13.4 | 23 | J | 6.0 | 17 | 314 | 3.9 | -2.7 | 3.5 | 1 | J |
| 16 | 333 | 14.4 | 22 | J | 6.8 | 4 | 315 | 4.5 | -3.8 | 2.4 | 2 | J |
| 17 | 341 | 18.5 | 25 | J | 6.7 | 5 | 302 | 3.0 | -4.2 | 2.4 | 3 | J |
| 18 | 349 | 20.3 | 27 | J | 6.3 | -17 | 279 | 0.7 | -4.7 | 0.3 | 4 | J |
| 19 | 341 | 20.2 | 19 | J | 7.6 | -34 | 265 | -0.3 | -3.3 | -1.0 | 7 | J |
| 20 | 343 | 21.4 | 25 | J | 8.2 | -58 | 210 | -3.8 | -3.9 | -6.1 | 0 | J |
| 21 | 332 | 23.0 | 33 | C | 7.8 | -53 | 231 | -2.8 | -4.8 | -5.1 | 1 | C |
| 22 | 338 | 19.1 | 27 | J | 10.8 | -44 | 258 | -1.6 | -8.9 | -5.7 | 1 | J |
| 23 | 339 | 18.5 | 24 | J | 10.5 | -27 | 268 | -0.3 | -9.2 | -2.5 | 4 | J |
| 24 | 341 | 21.0 | 32 | J | 10.1 | -18 | 281 | 1.8 | -9.6 | -1.0 | 2 | J |

### SEP. 15, 1979

258

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 341 | 21.7 | 29 | J | 10.0 | -1 | 290 | 3.4 | -9.1 | 2.0 | 2 | J |
| 339 | 21.9 | 36 | J | 9.9 | 33 | 312 | 4.9 | -4.1 | 6.0 | 4 | J |
| 352 | 12.5 | 48 | J | 10.6 | -14 | 283 | 1.7 | -7.4 | 0.4 | 7 | J |
| 360 | 10.1 | 78 | J | 10.4 | 6 | 298 | 4.9 | -8.2 | 4.2 | 1 | J |
| 338 | 7.2 | 35 | C | 10.1 | 0 | 277 | 1.2 | -9.1 | 3.9 | 2 | J |
| 361 | 9.9 | 30 | J | 9.8 | -5 | 278 | 1.3 | -9.0 | 3.4 | 2 | J |
| 357 | 9.6 | 30 | J | 9.1 | -19 | 303 | 4.6 | -7.6 | 0.9 | 2 | J |
| 356 | 10.6 | 34 | J | 8.5 | -16 | 309 | 5.1 | -6.6 | 1.3 | 2 | J |
| 363 | 12.2 | 38 | J | 8.1 | -14 | 320 | 6.0 | -5.3 | 1.1 | 1 | J |
| 366 | 12.1 | 33 | J | 9.1 | 7 | 327 | 7.4 | -3.4 | 3.6 | 2 | J |
| 381 | 17.2 | 49 | J | 8.3 | -11 | 295 | 3.0 | -6.1 | 2.6 | 4 | J |
| 379 | 17.9 | 31 | J | 9.3 | -4 | 313 | 5.2 | -4.9 | 2.7 | 5 | J |
| 374 | 16.0 | 31 | J | 11.6 | 18 | 318 | 7.8 | -4.0 | 6.7 | 3 | J |
| 384 | 13.9 | 53 | C | 12.0 | 39 | 316 | 5.4 | -1.3 | 7.9 | 6 | C |
| 388 | 11.5 | 53 | C | 12.2 | 16 | 312 | 7.8 | -5.9 | 7.1 | 1 | C |
| 405 | 12.7 | 71 | C | 10.5 | 26 | 326 | 7.0 | -2.5 | 5.8 | 4 | C |
| 401 | 14.0 | 80 | C | 9.6 | 23 | 325 | 6.7 | -2.9 | 5.1 | 3 | C |
| 402 | 13.3 | 80 | C | 8.4 | 19 | 337 | 6.4 | -1.8 | 3.2 | 3 | C |
| 400 | 15.6 | 96 | J | 8.0 | 22 | 323 | 5.7 | -3.2 | 4.0 | 2 | J |
| 399 | 15.7 | 111 | J | 7.7 | 20 | 300 | 3.5 | -5.1 | 4.0 | 2 | J |
| 396 | 15.6 | 104 | J | 8.0 | 19 | 318 | 5.5 | -4.2 | 3.6 | 2 | J |
| 392 | 15.7 | 117 | J | 8.1 | 6 | 326 | 5.9 | -3.7 | 1.6 | 4 | J |
| 395 | 14.8 | 97 | J | 7.7 | 36 | 345 | 5.5 | -0.6 | 4.4 | 3 | J |
| 407 | 12.3 | 78 | J | 8.6 | -10 | 316 | 5.9 | -5.9 | -0.2 | 2 | J |

### SEP. 16, 1979

259

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 410 | 12.3 | 96 | L | 9.6 | -16 | 310 | 5.8 | -7.3 | -0.9 | 2 | J |
| 2 | 402 | 11.4 | 130 | L | 10.5 | -21 | 309 | 5.9 | -8.0 | -1.6 | 3 | C |
| 3 | 432 | 12.7 | 156 | L | 9.1 | -10 | 296 | 3.2 | -6.7 | 0.8 | 5 | C |
| 4 | 437 | 9.1 | 110 | C | 8.5 | 17 | 298 | 3.1 | -4.9 | 4.0 | 4 | C |
| 5 | 335 | 8.0 | 84 | L | 8.3 | 18 | 293 | 2.6 | -4.8 | 4.5 | 4 | C |
| 6 | 374 | 9.5 | 188 | L | 8.1 | -16 | 288 | 1.8 | -5.9 | 1.0 | 5 | C |
| 7 | 381 | 9.7 | 245 | L | 7.9 | 1 | 309 | 3.5 | -3.7 | 2.2 | 5 | C |
| 8 | 380 | 8.2 | 247 | L | 8.4 | -38 | 273 | 0.3 | -7.7 | -1.0 | 2 | C |
| 9 | 365 | 6.1 | 224 | L | 8.0 | -9 | 304 | 3.5 | -4.8 | 2.0 | 4 | C |
| 10 | 388 | 6.4 | 259 | L | 8.6 | -46 | 267 | -0.3 | -7.8 | -1.7 | 3 | C |
| 11 | 386 | 9.5 | 314 | L |  |  |  |  |  |  |  |  |
| 12 | 453 | 7.2 | 100 | C | 8.5 | -24 | 291 | 2.4 | -6.9 | 1.0 | 4 | C |
| 13 | 451 | 6.3 | 80 | C | 9.0 | 31 | 322 | 3.3 | -0.8 | 3.6 | 7 | C |
| 14 | 455 | 6.5 | 90 | C | 6.8 | 42 | 357 | 4.6 | 1.9 | 3.6 | 2 | C |
| 15 | 424 | 6.3 | 365 | L | 5.5 | 22 | 358 | 4.7 | 0.8 | 1.7 | 2 | C |
| 16 | 408 | 4.8 | 321 | L | 5.9 | 27 | 5 | 5.0 | 1.5 | 2.1 | 2 | C |
| 17 | 418 | 5.8 | 352 | L | 4.9 | -35 | 303 | 1.9 | -3.6 | -1.1 | 2 | C |
| 18 | 424 | 5.9 | 363 | L | 4.2 | -28 | 333 | 3.1 | -2.1 | -1.1 | 1 | C |
| 19 | 395 | 4.5 | 340 | L | 4.3 | -2 | 311 | 2.5 | -2.8 | 0.8 | 2 | C |
| 20 | 445 | 5.3 | 60 | C | 4.4 | -16 | 276 | 0.4 | -3.8 | -0.0 | 2 | C |
| 21 | 432 | 5.1 | 55 | C | 4.9 | -2 | 295 | 1.9 | -4.0 | 0.8 | 2 | C |
| 22 | 355 | 2.9 | 295 | L | 4.8 | -36 | 338 | 3.5 | -2.0 | -2.4 | 1 | C |
| 23 | 339 | 2.1 | 309 | L | 5.3 | -37 | 355 | 4.0 | -1.0 | -2.9 | 1 | C |
| 24 | 418 | 7.6 | 62 | C | 6.8 | -33 | 342 | 5.1 | -2.3 | -3.1 | 2 | C |

### SEP. 17, 1979

260

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 325 | 4.5 | 219 | L | 7.4 | 0 | 308 | 4.1 | -5.1 | 1.2 | 3 | C |
| 421 | 7.3 | 53 | C | 7.4 | -1 | 306 | 3.8 | -5.1 | 1.2 | 3 | C |
| 418 | 7.8 | 55 | C | 7.3 | -7 | 316 | 4.8 | -4.7 | 0.6 | 3 | C |
| 413 | 7.7 | 56 | C | 6.9 | 17 | 321 | 5.1 | -3.2 | 3.3 | 1 | C |
| 414 | 7.5 | 58 | C | 6.6 | 30 | 316 | 3.9 | -2.3 | 4.4 | 1 | C |
| 405 | 8.3 | 62 | C | 6.2 | -6 | 337 | 5.5 | -2.3 | 0.4 | 1 | C |
| 418 | 8.4 | 63 | C | 5.4 | 22 | 3 | 3.7 | 0.9 | 1.2 | 3 | C |
| 428 | 8.4 | 54 | C | 5.9 | 49 | 290 | 1.0 | -0.6 | 4.3 | 3 | C |
| 440 | 9.1 | 52 | C | 6.2 | 25 | 258 | -1.0 | -2.7 | 4.4 | 3 | C |
| 440 | 10.0 | 49 | C | 7.0 | -2 | 265 | -0.5 | -5.3 | 3.4 | 2 | C |
| 451 | 12.9 | 64 | C | 10.3 | -32 | 288 | 2.6 | -9.3 | 0.2 | 3 | C |
| 441 | 12.1 | 74 | C | 11.8 | 28 | 298 | 3.7 | -3.5 | 7.5 | 6 | C |
| 432 | 11.0 | 85 | C | 9.0 | 39 | 51 | 3.4 | 5.8 | 1.3 | 5 | C |
| 419 | 11.2 | 102 | C | 6.2 | 18 | 9 | 4.4 | 1.4 | 0.9 | 4 | C |
| 439 | 11.8 | 86 | C | 7.1 | -19 | 279 | 0.6 | -4.2 | 0.7 | 5 | C |
| 438 | 11.6 | 83 | C | 8.5 | -16 | 267 | -0.4 | -6.9 | 1.3 | 4 | C |
| 448 | 12.8 | 84 | C | 9.7 | 11 | 272 | 0.3 | -7.2 | 4.9 | 3 | C |
| 447 | 15.4 | 86 | C | 11.0 | 11 | 271 | 0.1 | -8.9 | 5.4 | 2 | C |
| 413 | 13.6 | 96 | C | 13.0 | 13 | 314 | 8.6 | -7.6 | 5.5 | 2 | C |
| 410 | 14.4 | 84 | C | 12.2 | 21 | 305 | 6.4 | -7.6 | 6.5 | 3 | C |
| 425 | 15.9 | 82 | C | 12.8 | 6 | 283 | 2.7 | -11.2 | 4.0 | 2 | C |
| 418 | 19.3 | 77 | C | 13.3 | 8 | 281 | 2.4 | -11.3 | 4.2 | 4 | C |
| 414 | 24.6 | 89 | C | 13.4 | -10 | 282 | 2.6 | -12.1 | 0.3 | 4 | C |
| 413 | 27.1 | 101 | C | 13.5 | -65 | 294 | 2.0 | -6.6 | -9.3 | 6 | C |

### SEP. 18, 1979

261

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 410 | 25.6 | 46 | C | 16.6 | -45 | 96 | -1.1 | 8.4 | -13.6 | 4 | C |
| 2 | 401 | 19.3 | 75 | C | 15.5 | -50 | 294 | 2.8 | -8.2 | -6.4 | 11 | C |
| 3 | 410 | 12.9 | 96 | C | 17.1 | 20 | 282 | 3.2 | -13.2 | 10.2 | 2 | C |
| 4 | 404 | 20.3 | 77 | C | 14.5 | 57 | 297 | 2.1 | -1.4 | 8.1 | 11 | C |
| 5 | 404 | 25.4 | 71 | C | 14.6 | 44 | 103 | -2.1 | 12.1 | 4.8 | 6 | C |
| 6 | 411 | 28.9 | 66 | C | 12.6 | 19 | 113 | -2.2 | 5.6 | -0.5 | 9 | C |
| 7 | 405 | 25.8 | 39 | C | 17.1 | -62 | 94 | -0.4 | -0.1 | -14.1 | 10 | C |
| 8 | 405 | 25.5 | 22 | C | 18.0 | -83 | 152 | -1.8 | -8.3 | -15.5 | 2 | C |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 395 | 14.4 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 408 | 11.7 | 31 | C | 16.8 | -54 | 130 | -6.5 | -1.5 | -15.4 | 1 | C |
| 12 | 416 | 12.2 | 39 | C | 15.3 | -72 | 104 | -1.1 | -4.4 | -14.0 | 4 | C |
| 13 | 395 | 14.9 | 77 | C | 11.3 | -63 | 120 | -2.2 | -1.5 | -9.3 | 6 | C |
| 14 | 372 | 13.0 | 73 | C | 12.7 | -48 | 110 | -2.8 | 1.8 | -11.7 | 3 | C |
| 15 | 386 | 11.7 | 64 | C | 12.5 | -48 | 103 | -1.9 | 2.4 | -11.8 | 3 | C |
| 16 | 373 | 20.1 | 38 | C | 11.8 | -4 | 71 | 2.9 | 7.3 | -4.3 | 7 | C |
| 17 | 368 | 20.6 | 14 | C | 13.5 | 25 | 61 | 5.9 | 12.0 | 1.0 | 1 | C |
| 18 | 369 | 19.5 | 12 | C | 13.1 | 42 | 61 | 4.7 | 10.9 | 5.3 | 1 | C |
| 19 | 367 | 13.0 | 11 | C | 13.4 | 48 | 61 | 4.3 | 10.4 | 7.2 | 0 | C |
| 20 | 366 | 13.4 | 10 | C | 13.1 | 49 | 57 | 4.7 | 9.5 | 7.5 | 1 | C |
| 21 | 364 | 12.1 | 19 | C | 12.8 | 49 | 56 | 4.6 | 9.0 | 7.7 | 1 | C |
| 22 | 362 | 12.3 | 18 | C | 12.6 | 50 | 54 | 4.7 | 8.5 | 8.1 | 1 | C |
| 23 | 360 | 14.8 | 19 | C | 12.5 | 58 | 53 | 3.9 | 7.3 | 9.1 | 2 | C |
| 24 | 368 | 15.1 | 22 | C | 14.3 | 56 | 64 | 3.5 | 9.4 | 9.8 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 370 | 9.9 | 19 | C | 15.4 | 61 | 70 | 2.4 | 9.7 | 11.0 | 4 | C |
| 374 | 11.2 | 15 | C | 15.1 | 62 | 60 | 3.5 | 9.3 | 11.2 | 1 | C |
| 379 | 7.8 | 14 | C | 14.8 | 62 | 56 | 3.9 | 9.4 | 10.7 | 1 | C |
| 378 | 8.8 | 38 | C | 12.9 | 52 | 42 | 5.9 | 8.5 | 7.5 | 2 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 379 | 6.2 | 0 | C |  |  |  |  |  |  |  |  |
| 379 | 5.6 | 36 | C | 11.3 | 66 | 330 | 3.9 | 3.0 | 10.1 | 1 | C |
| 374 | 8.3 | 30 | C | 10.7 | 59 | 16 | 5.1 | 6.0 | 6.9 | 2 | C |
| 373 | 7.9 | 25 | C | 10.5 | 58 | 321 | 4.3 | 1.9 | 9.2 | 2 | C |
| 370 | 8.1 | 26 | C | 10.1 | 46 | 306 | 3.9 | -0.5 | 8.7 | 3 | C |
| 367 | 7.6 | 30 | C | 9.6 | 53 | 323 | 4.4 | 1.5 | 7.9 | 2 | C |
| 362 | 6.9 | 36 | C | 9.5 | 29 | 305 | 4.3 | -2.6 | 6.9 | 4 | C |
| 363 | 5.5 | 47 | C | 9.6 | 25 | 301 | 4.3 | -3.8 | 7.3 | 2 | C |
| 360 | 5.7 | 43 | C | 9.6 | 19 | 296 | 3.8 | -5.0 | 6.6 | 3 | C |
| 355 | 5.4 | 35 | C | 9.4 | 33 | 304 | 3.9 | -2.8 | 6.8 | 4 | C |
| 359 | 5.2 | 42 | C | 9.1 | 31 | 303 | 4.2 | -3.7 | 7.0 | 1 | C |
| 361 | 5.1 | 32 | C | 9.6 | 16 | 295 | 3.8 | -6.4 | 5.6 | 2 | C |
| 347 | 5.5 | 34 | C | 9.3 | 3 | 309 | 5.7 | -6.6 | 2.9 | 1 | C |
| 365 | 6.5 | 47 | C | 7.3 | 10 | 296 | 2.4 | -4.4 | 2.5 | 5 | C |
| 382 | 9.7 | 65 | C | 3.5 | -38 | 41 | 1.8 | 1.0 | -2.2 | 2 | C |
| 388 | 11.2 | 70 | J | 3.9 | -60 | 37 | 0.7 | 0.2 | -1.6 | 3 | C |
| 394 | 10.5 | 69 | J | 4.1 | -52 | 206 | -1.4 | -1.1 | -1.9 | 3 | J |
| 403 | 11.2 | 80 | J | 3.3 | -87 | 297 | 0.0 | -0.4 | -1.5 | 3 | J |
| 392 | 13.0 | 75 | J | 5.4 | -21 | 297 | 1.6 | -3.4 | -0.7 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 13.1 | 63 | J | 9.2 | -28 | 313 | 4.8 | -5.9 | -2.5 | 4 | J |
| 2 | 370 | 9.6 | 38 | C | 9.2 | 21 | 339 | 5.2 | -5.4 | 4.7 | 2 | C |
| 3 | 373 | 8.8 | 36 | C | 9.1 | 32 | 306 | 4.4 | -4.4 | 6.3 | 2 | C |
| 4 | 380 | 15.1 | 24 | J | 8.4 | 39 | 305 | 3.6 | -3.0 | 6.5 | 2 | J |
| 5 | 380 | 13.1 | 22 | J | 8.1 | 35 | 311 | 4.1 | -2.6 | 5.9 | 2 | J |
| 6 | 373 | 14.3 | 20 | J | 7.7 | 12 | 314 | 4.9 | -3.9 | 3.6 | 2 | J |
| 7 | 372 | 13.7 | 22 | J | 7.2 | 7 | 311 | 4.5 | -4.1 | 3.2 | 2 | J |
| 8 | 372 | 16.0 | 22 | J | 7.1 | -6 | 305 | 3.9 | -5.1 | 2.3 | 2 | J |
| 9 | 379 | 22.1 | 26 | J | 7.1 | 43 | 76 | 0.8 | 4.4 | 0.8 | 5 | J |
| 10 | 374 | 23.6 | 27 | J | 8.6 | -7 | 304 | 4.5 | -6.1 | 3.0 | 2 | J |
| 11 | 381 | 26.7 | 52 | J | 9.8 | 30 | 314 | 5.4 | -2.0 | 6.8 | 4 | J |
| 12 | 408 | 21.3 | 47 | J | 12.1 | 44 | 101 | -0.9 | 6.3 | 1.1 | 10 | J |
| 13 | 430 | 23.5 | 104 | J | 10.6 | -41 | 122 | -3.6 | 1.5 | -8.0 | 7 | J |
| 14 | 422 | 22.0 | 97 | J | 10.3 | -19 | 116 | -4.0 | 5.4 | -7.0 | 3 | J |
| 15 | 412 | 16.5 | 79 | J | 10.6 | -21 | 126 | -5.7 | 5.0 | -7.2 | 1 | C |
| 16 | 424 | 17.0 | 72 | J | 10.1 | -25 | 127 | -5.3 | 4.5 | -6.9 | 2 | J |
| 17 | 417 | 14.6 | 67 | J | 10.7 | -3 | 134 | -7.1 | 6.6 | -3.4 | 3 | J |
| 18 | 418 | 15.4 | 73 | J | 7.3 | 28 | 143 | -4.9 | 4.6 | 1.7 | 4 | J |
| 19 | 417 | 11.2 | 91 | J | 7.9 | 16 | 152 | -6.3 | 3.8 | 0.9 | 2 | J |
| 20 | 419 | 11.8 | 106 | J | 7.4 | 26 | 172 | -6.1 | 1.6 | 2.6 | 3 | J |
| 21 | 435 | 12.1 | 118 | J | 6.4 | -27 | 342 | 1.4 | -0.6 | -0.6 | 7 | J |
| 22 | 421 | 13.6 | 115 | J | 5.1 | 0 | 26 | 3.6 | 1.7 | -0.4 | 3 | J |
| 23 | 427 | 12.0 | 91 | J | 4.8 | 1 | 337 | 3.0 | -1.2 | 0.3 | 4 | J |
| 24 | 424 | 14.4 | 68 | J | 6.6 | -47 | 353 | 4.2 | -1.5 | -4.3 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 423 | 15.6 | 92 | J | 7.0 | -56 | 340 | 3.3 | -2.3 | -4.7 | 3 | J |
| 421 | 16.4 | 80 | J | 6.5 | -70 | 6 | 1.9 | -1.2 | -5.0 | 3 | J |
| 417 | 16.8 | 57 | J | 7.5 | -72 | 93 | -0.1 | 0.1 | -7.1 | 2 | J |
| 432 | 15.9 | 97 | J | 8.8 | -52 | 119 | -2.3 | 1.8 | -7.1 | 4 | J |
| 451 | 16.6 | 113 | J | 7.4 | -29 | 281 | 1.0 | -5.8 | -0.6 | 5 | J |
| 459 | 8.5 | 176 | J | 8.9 | 75 | 150 | -1.7 | 4.0 | 6.0 | 5 | J |
| 457 | 9.1 | 206 | J | 9.9 | 47 | 121 | -3.1 | 7.7 | 3.2 | 4 | J |
| 449 | 9.0 | 171 | J | 9.2 | 18 | 115 | -3.5 | 7.8 | -1.6 | 3 | J |
| 443 | 8.0 | 163 | J | 9.8 | 17 | 127 | -5.5 | 7.6 | -1.7 | 2 | J |
| 433 | 9.4 | 160 | J | 9.5 | 18 | 123 | -4.8 | 7.7 | -1.8 | 2 | J |
| 441 | 6.3 | 127 | J | 10.1 | 12 | 119 | -4.7 | 8.2 | -3.2 | 2 | J |
| 433 | 6.7 | 93 | J | 9.5 | 28 | 119 | -4.0 | 8.5 | -0.5 | 2 | J |
| 444 | 7.8 | 124 | J | 8.1 | 18 | 110 | -2.5 | 7.0 | -1.8 | 3 | J |
| 431 | 7.9 | 109 | J | 8.0 | 23 | 122 | -3.7 | 6.5 | -0.6 | 3 | J |
| 430 | 7.9 | 114 | J | 8.5 | 29 | 109 | -2.4 | 8.0 | 0.1 | 2 | J |
| 444 | 7.2 | 105 | J | 8.0 | 43 | 115 | -2.4 | 7.0 | 2.4 | 1 | J |
| 451 | 7.6 | 106 | J | 6.8 | 50 | 122 | -2.2 | 5.3 | 3.2 | 1 | J |
| 447 | 8.8 | 99 | J | 6.2 | 44 | 127 | -2.6 | 4.7 | 2.7 | 1 | J |
| 431 | 8.6 | 82 | C | 5.8 | -16 | 125 | -2.7 | 3.3 | -2.5 | 3 | J |
| 448 | 9.4 | 108 | J | 4.5 | 27 | 118 | -1.3 | 2.6 | 0.7 | 4 | J |
| 446 | 10.0 | 117 | J | 3.7 | 5 | 149 | -2.9 | 1.8 | -0.1 | 2 | J |
| 438 | 6.6 | 68 | C | 6.0 | 47 | 152 | -3.6 | 2.8 | 3.8 | 1 | J |
| 441 | 10.2 | 59 | J | 5.3 | -54 | 171 | -2.9 | -0.4 | -4.1 | 2 | J |
| 437 | 8.7 | 73 | J | 5.3 | 20 | 165 | -3.2 | 1.1 | 1.0 | 4 | J |

SEP. 22, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 7.0 | 55 | J | 6.6 | 60 | 197 | -3.1 | 0.4 | 5.6 | 1 | J |
| 2 | 426 | 6.6 | 60 | J | 6.2 | 61 | 203 | -2.7 | 0.3 | 5.4 | 2 | J |
| 3 | 414 | 7.4 | 63 | C | 5.2 | 74 | 173 | -1.3 | 1.5 | 4.3 | 2 | J |
| 4 | 411 | 10.2 | 59 | J | 4.7 | 22 | 247 | -1.3 | -2.4 | 2.3 | 3 | J |
| 5 | 407 | 9.2 | 48 | J | 5.2 | 42 | 206 | -3.3 | -0.2 | 3.6 | 2 | J |
| 6 | 405 | 10.0 | 51 | J | 5.1 | 48 | 218 | -1.8 | -0.1 | 3.0 | 4 | J |
| 7 | 415 | 11.2 | 32 | J | 5.8 | 77 | 26 | 1.1 | 3.1 | 4.5 | 2 | J |
| 8 | 403 | 12.9 | 37 | J | 6.1 | 82 | 173 | -0.8 | 2.9 | 4.6 | 3 | J |
| 9 | 410 | 14.0 | 33 | J | 6.4 | 61 | 286 | 0.8 | 0.6 | 6.1 | 1 | J |
| 10 | 398 | 14.4 | 44 | J | 7.2 | 79 | 177 | -1.3 | 3.8 | 5.5 | 2 | J |
| 11 | 395 | 15.4 | 49 | J | 7.2 | 44 | 129 | -3.1 | 5.8 | 1.7 | 2 | J |
| 12 | 396 | 14.3 | 41 | J | 7.9 | 43 | 123 | -3.1 | 6.9 | 1.7 | 2 | J |
| 13 | 394 | 13.5 | 53 | J | 7.9 | 5 | 121 | -4.0 | 5.9 | -3.1 | 2 | J |
| 14 | 373 | 12.6 | 23 | J | 7.8 | -8 | 160 | -7.3 | 1.7 | -2.3 | 1 | J |
| 15 | 380 | 13.4 | 34 | J | 8.3 | 46 | 215 | -3.1 | 0.0 | 4.4 | 6 | J |
| 16 | 384 | 11.1 | 27 | C | 8.2 | 53 | 285 | 1.3 | -1.3 | 7.9 | 1 | J |
| 17 | 378 | 11.4 | 37 | C | 7.6 | 66 | 286 | 0.8 | 0.0 | 7.4 | 2 | J |
| 18 | 380 | 11.2 | 33 | C | 6.9 | 62 | 255 | -0.7 | -0.7 | 5.8 | 4 | J |
| 19 | 388 | 11.8 | 52 | J | 7.2 | 64 | 233 | -1.7 | -0.4 | 6.2 | 3 | J |
| 20 | 387 | 10.5 | 48 | J | 7.2 | 56 | 116 | -1.7 | 4.8 | 4.5 | 3 | J |
| 21 | 392 | 11.0 | 59 | J | 6.4 | 59 | 111 | -0.9 | 3.3 | 3.5 | 4 | J |
| 22 | 387 | 11.5 | 60 | J | 6.8 | 50 | 138 | -2.5 | 3.1 | 3.5 | 4 | J |
| 23 | 383 | 10.9 | 54 | J | 6.6 | 57 | 193 | -3.0 | 0.3 | 4.8 | 3 | J |
| 24 | 381 | 11.4 | 35 | J | 6.7 | 46 | 133 | -2.9 | 4.0 | 3.6 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 398 | 12.1 | 43 | J | 6.8 | 74 | 96 | -0.2 | 2.8 | 5.1 | 3 | J |
| 378 | 10.6 | 29 | J | 7.7 | 24 | 137 | -4.1 | 4.4 | 1.4 | 5 | J |
| 376 | 10.3 | 27 | J | 8.0 | -2 | 134 | -5.0 | 4.9 | -1.8 | 4 | J |
| 370 | 9.8 | 29 | J | 8.0 | -3 | 141 | -5.9 | 4.3 | -2.0 | 2 | J |
| 361 | 9.4 | 40 | J | 7.9 | -4 | 143 | -6.1 | 4.0 | -2.3 | 2 | J |
| 374 | 12.4 | 24 | J | 7.4 | 40 | 121 | -2.7 | 5.9 | 1.9 | 2 | J |
| 387 | 12.9 | 35 | J | 6.9 | 64 | 56 | 1.5 | 4.8 | 3.8 | 3 | J |
| 369 | 13.7 | 27 | J | 6.8 | 74 | 85 | 0.1 | 4.6 | 4.2 | 3 | J |
| 367 | 11.4 | 25 | C | 7.6 | 73 | 1 | 2.2 | 4.0 | 6.0 | 1 | J |
| 379 | 11.9 | 28 | J | 6.6 | 67 | 332 | 2.2 | 2.4 | 5.6 | 1 | J |
| 369 | 12.4 | 40 | J | 5.8 | 74 | 341 | 1.4 | 2.5 | 4.4 | 3 | J |
| 353 | 14.0 | 68 | J | 6.4 | 25 | 159 | -5.1 | 3.0 | 1.0 | 2 | J |
| 350 | 12.1 | 70 | J | 7.2 | 2 | 142 | -5.4 | 3.7 | -2.1 | 2 | J |
| 348 | 11.0 | 53 | J | 5.4 | -23 | 143 | -3.7 | 1.3 | -3.1 | 2 | J |
| 370 | 5.8 | 54 | J | 6.4 | -2 | 136 | -4.0 | 3.3 | -2.1 | 3 | J |
| 371 | 5.9 | 55 | J | 6.8 | -9 | 137 | -4.8 | 3.6 | -3.0 | 1 | J |
| 367 | 6.2 | 55 | J | 6.8 | 19 | 137 | -4.6 | 4.8 | 0.3 | 2 | J |
| 366 | 6.0 | 58 | J | 6.7 | 7 | 129 | -4.1 | 5.1 | -1.0 | 2 | J |
| 367 | 6.9 | 67 | C | 5.7 | 6 | 126 | -3.3 | 4.5 | -0.8 | 1 | J |
| 365 | 7.6 | 72 | C | 5.4 | 16 | 137 | -3.6 | 3.6 | 0.5 | 2 | J |
| 366 | 8.6 | 75 | J | 5.4 | 28 | 137 | -3.4 | 3.6 | 1.6 | 1 | J |
| 371 | 8.3 | 63 | J | 5.2 | 36 | 124 | -1.9 | 3.2 | 1.8 | 3 | J |
| 359 | 7.9 | 50 | J | 6.7 | 10 | 126 | -3.6 | 5.1 | 0.0 | 2 | J |
| 357 | 7.2 | 49 | J | 7.2 | 21 | 128 | -4.1 | 5.7 | 1.4 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 353 | 8.7 | 35 | J | 7.5 | 68 | 163 | -2.5 | 2.3 | 6.1 | 3 | J |
| 2 | 346 | 8.4 | 33 | J | 7.3 | 37 | 127 | -3.1 | 5.0 | 2.7 | 3 | C |
| 3 | 341 | 8.2 | 23 | J | 6.9 | 3 | 129 | -4.0 | 4.9 | -1.2 | 3 | C |
| 4 | 345 | 8.7 | 29 | J | 7.3 | -33 | 139 | -4.3 | 2.2 | -4.8 | 3 | J |
| 5 | 345 | 9.2 | 28 | J | 7.2 | 10 | 112 | -2.5 | 6.1 | -1.4 | 3 | J |
| 6 | 344 | 9.6 | 29 | J | 7.1 | -13 | 125 | -3.7 | 4.1 | -3.7 | 3 | J |
| 7 | 346 | 10.2 | 35 | C | 7.4 | -3 | 138 | -5.0 | 3.8 | -2.5 | 3 | J |
| 8 | 359 | 12.5 | 58 | J | 7.3 | 34 | 119 | -2.8 | 6.4 | 0.7 | 2 | J |
| 9 | 347 | 9.4 | 27 | C | 7.6 | 49 | 126 | -2.8 | 6.2 | 2.4 | 2 | C |
| 10 | 352 | 9.7 | 33 | C | 7.6 | 9 | 124 | -3.7 | 5.0 | -2.2 | 3 | C |
| 11 | 352 | 9.3 | 35 | C | 7.5 | -45 | 148 | -4.3 | -0.7 | -5.7 | 2 | J |
| 12 | 348 | 8.6 | 30 | C | 7.5 | -26 | 129 | -4.1 | 2.4 | -5.5 | 2 | J |
| 13 | 335 | 9.0 | 31 | C | 7.5 | -13 | 130 | -4.3 | 3.4 | -4.1 | 3 | J |
| 14 | 343 | 8.8 | 27 | C | 7.3 | -8 | 132 | -4.8 | 4.0 | -3.6 | 2 | J |
| 15 | 359 | 8.4 | 37 | C | 7.8 | -2 | 129 | -2.4 | 2.6 | -1.5 | 7 | C |
| 16 | 360 | 8.3 | 41 | J | 6.7 | 60 | 144 | -2.6 | 4.2 | 4.1 | 2 | J |
| 17 | 346 | 8.4 | 38 | J | 6.6 | 17 | 151 | -5.0 | 3.3 | 0.5 | 3 | J |
| 18 | 354 | 8.6 | 40 | C | 6.8 | 55 | 148 | -3.0 | 3.5 | 4.1 | 2 | C |
| 19 | 349 | 8.7 | 32 | C | 7.5 | 43 | 159 | -4.6 | 3.1 | 3.8 | 3 | J |
| 20 | 348 | 9.1 | 48 | J | 8.2 | -33 | 134 | -4.7 | 3.5 | -5.5 | 2 | J |
| 21 | 354 | 8.7 | 37 | J | 8.3 | -46 | 119 | -2.8 | 3.5 | -6.9 | 1 | J |
| 22 | 366 | 8.2 | 24 | J | 8.2 | -62 | 113 | -1.5 | 1.9 | -7.6 | 2 | J |
| 23 | 353 | 7.9 | 25 | J | 8.1 | -54 | 132 | -3.1 | 2.0 | -7.0 | 2 | J |
| 24 | 354 | 7.8 | 30 | J | 7.7 | -56 | 139 | -3.1 | 1.3 | -6.6 | 2 | J |

SEP. 25, 1979

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 345 | 8.6 | 33 | C | 7.7 | -27 | 125 | -3.7 | 4.4 | -4.5 | 2 | J |
| 357 | 7.3 | 23 | J | 8.0 | -39 | 109 | -2.0 | 4.3 | -6.3 | 1 | J |
| 361 | 7.1 | 21 | J | 8.1 | -43 | 106 | -1.6 | 3.7 | -6.9 | 1 | J |
| 352 | 7.9 | 27 | J | 7.3 | -5 | 127 | -3.0 | 3.6 | -1.8 | 5 | J |
| 342 | 8.7 | 32 | J | 7.7 | -16 | 125 | -4.1 | 4.5 | -4.2 | 2 | J |
| 337 | 8.3 | 21 | J | 8.3 | -12 | 134 | -5.4 | 4.3 | -4.0 | 2 | J |
| 331 | 7.7 | 21 | J | 8.5 | 13 | 153 | -7.3 | 4.2 | -0.2 | 1 | J |
| 358 | 6.7 | 48 | J | 8.0 | 4 | 148 | -6.5 | 3.7 | -1.7 | 2 | J |
| 356 | 7.0 | 48 | J | 8.1 | 16 | 158 | -7.0 | 3.6 | 0.3 | 2 | J |
| 350 | 7.8 | 39 | C | 8.2 | 27 | 162 | -6.8 | 3.8 | 1.8 | 2 | C |
| 361 | 7.3 | 47 | C | 8.3 | 41 | 178 | -5.6 | 3.0 | 3.8 | 3 | C |
| 363 | 7.2 | 48 | C | 8.8 | 36 | 151 | -6.1 | 5.7 | 2.3 | 1 | C |
| 356 | 7.6 | 45 | C | 8.9 | 29 | 151 | -6.7 | 5.4 | 1.4 | 1 | C |
| 360 | 7.6 | 47 | C | 8.8 | 59 | 139 | -3.3 | 6.3 | 4.8 | 2 | J |
| 373 | 7.7 | 43 | J | 8.7 | -34 | 127 | -4.1 | 2.5 | -6.7 | 3 | J |
| 388 | 8.5 | 53 | J | 8.1 | -45 | 108 | -1.6 | 2.2 | -7.0 | 3 | J |
| 380 | 7.9 | 50 | J | 8.5 | 3 | 143 | -5.1 | 3.7 | -1.2 | 6 | J |
| 378 | 6.5 | 38 | J | 8.6 | -2 | 141 | -6.1 | 4.5 | -2.0 | 4 | J |
| 385 | 5.7 | 64 | J | 8.1 | -1 | 129 | -4.5 | 5.2 | -1.8 | 4 | J |
| 386 | 5.7 | 48 | J | 8.6 | -33 | 154 | -6.2 | 1.7 | -5.1 | 3 | J |
| 381 | 5.9 | 55 | J | 8.6 | 4 | 141 | -5.8 | 4.7 | -0.6 | 4 | J |
| 392 | 6.7 | 66 | J | 8.4 | 30 | 134 | -4.0 | 4.7 | 2.3 | 5 | J |
| 405 | 7.7 | 71 | J | 8.4 | -11 | 110 | -2.1 | 5.5 | -2.4 | 5 | J |
| 406 | 7.8 | 64 | J | 8.5 | 27 | 104 | -1.5 | 6.4 | 1.8 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 398 | 7.4 | 60 | J | 8.6 | -12 | 109 | -2.5 | 6.6 | -3.2 | 4 | J |
| 2 | 388 | 7.2 | 55 | J | 8.7 | -28 | 126 | -4.3 | 4.6 | -5.3 | 3 | J |
| 3 | 387 | 8.1 | 70 | J | 8.5 | -17 | 140 | -5.5 | 3.7 | -3.5 | 4 | J |
| 4 | 377 | 8.2 | 58 | J | 8.2 | 19 | 150 | -5.4 | 3.7 | 0.9 | 5 | J |
| 5 | 411 | 8.9 | 86 | J | 7.7 | 51 | 137 | -1.8 | 2.8 | 2.2 | 7 | J |
| 6 | 405 | 7.4 | 101 | J | 8.2 | -35 | 137 | -4.2 | 1.7 | -5.3 | 4 | J |
| 7 | 395 | 7.9 | 103 | J | 8.5 | -9 | 138 | -5.7 | 3.9 | -3.5 | 3 | J |
| 8 | 416 | 8.2 | 184 | J | 8.5 | 48 | 123 | -2.8 | 6.6 | 2.6 | 4 | J |
| 9 | 402 | 7.4 | 69 | J | 9.0 | 39 | 127 | -3.5 | 6.5 | 1.4 | 5 | J |
| 10 | 399 | 7.4 | 76 | J | 9.1 | 22 | 118 | -3.4 | 6.8 | -1.2 | 5 | J |
| 11 | 410 | 7.5 | 93 | J | 9.4 | 30 | 122 | -4.0 | 7.8 | -0.1 | 3 | J |
| 12 | 376 | 6.2 | 41 | J | 9.2 | 15 | 166 | -6.5 | 2.3 | 0.6 | 6 | J |
| 13 | 376 | 6.3 | 29 | J | 9.6 | 1 | 140 | -7.0 | 5.0 | -3.1 | 3 | J |
| 14 | 455 | 6.6 | 131 | J | 9.8 | 3 | 123 | -5.0 | 6.8 | -3.6 | 3 | J |
| 15 | 436 | 6.5 | 109 | C | 9.4 | 4 | 120 | -4.2 | 6.7 | -3.1 | 4 | J |
| 16 | 441 | 5.5 | 136 | C | 9.0 | 3 | 117 | -3.9 | 7.1 | -3.0 | 3 | J |
| 17 | 467 | 4.1 | 141 | J | 8.1 | -42 | 120 | -2.2 | 1.9 | -5.2 | 5 | J |
| 18 | 472 | 3.6 | 130 | J | 8.2 | -23 | 130 | -4.1 | 3.6 | -4.2 | 4 | J |
| 19 | 481 | 4.1 | 185 | J | 8.4 | -36 | 140 | -4.2 | 2.1 | -4.9 | 4 | C |
| 20 | 485 | 3.2 | 136 | J | 8.6 | -6 | 113 | -3.1 | 6.9 | -2.8 | 3 | J |
| 21 | 497 | 3.1 | 121 | J | 8.6 | 7 | 15 | -2.0 | 7.3 | -0.8 | 4 | J |
| 22 | 506 | 4.1 | 165 | J | 7.5 | -24 | 181 | -4.3 | -0.5 | -1.9 | 6 | J |
| 23 | 493 | 3.3 | 127 | J | 7.6 | -4 | 112 | -2.5 | 5.9 | -1.7 | 4 | J |
| 24 | 528 | 3.0 | 115 | J | 7.7 | 2 | 102 | -1.3 | 6.2 | -1.1 | 4 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 546 | 2.9 | 109 | J | 7.2 | 18 | 86 | 0.4 | 5.3 | 0.4 | 5 | J |
| 500 | 2.9 | 89 | J | 6.9 | -39 | 130 | -2.8 | 2.3 | -4.3 | 4 | J |
| 474 | 2.6 | 58 | J | 6.9 | -52 | 131 | -2.3 | 1.2 | -5.2 | 4 | J |
| 496 | 2.8 | 86 | J | 6.8 | 5 | 108 | -1.8 | 5.4 | -1.5 | 3 | J |
| 469 | 2.7 | 54 | J | 6.7 | -4 | 137 | -3.8 | 3.1 | -1.7 | 4 | J |
| 465 | 2.7 | 66 | J | 6.7 | 36 | 134 | -3.6 | 5.0 | 1.7 | 2 | J |
| 468 | 2.7 | 69 | J | 6.3 | 28 | 124 | -3.0 | 5.3 | 0.3 | 2 | J |
| 463 | 2.8 | 51 | J | 5.9 | 12 | 144 | -4.1 | 3.1 | -0.6 | 3 | J |
| 468 | 3.1 | 80 | J | 5.8 | 37 | 161 | -3.9 | 2.8 | 1.8 | 3 | J |
| 479 | 3.3 | 104 | C | 5.5 | 32 | 142 | -3.0 | 3.2 | 0.6 | 3 | C |
| 491 | 3.3 | 109 | C | 5.3 | 38 | 112 | -1.4 | 4.4 | 0.5 | 2 | C |
| 515 | 3.3 | 95 | J | 4.8 | -63 | 92 | -0.1 | -0.5 | -4.2 | 2 | J |
| 472 | 3.1 | 67 | J | 5.0 | -23 | 144 | -3.1 | 1.0 | -2.6 | 3 | J |
| 515 | 3.2 | 71 | J | 4.8 | -71 | 91 | -0.0 | -0.9 | -3.9 | 3 | J |
| 469 | 3.2 | 97 | C | 5.1 | 18 | 122 | -2.2 | 3.8 | -0.5 | 2 | C |
| 452 | 3.3 | 85 | C | 5.1 | 25 | 140 | -3.3 | 3.4 | 0.6 | 1 | C |
| 450 | 3.4 | 89 | C | 5.0 | -46 | 170 | -3.3 | -0.8 | -3.4 | 2 | J |
| 442 | 2.6 | 65 | J | 4.8 | 14 | 163 | -3.9 | 1.5 | 0.5 | 2 | J |
| 469 | 2.9 | 73 | J | 4.7 | -24 | 140 | -2.4 | 1.5 | -2.0 | 3 | J |
| 431 | 2.5 | 40 | J | 5.2 | -11 | 140 | -3.7 | 2.7 | -1.7 | 2 | J |
| 411 | 2.4 | 30 | J | 5.3 | -11 | 148 | -4.2 | 2.3 | -1.5 | 2 | J |
| 406 | 3.0 | 52 | C | 5.6 | -9 | 139 | -4.0 | 3.2 | -1.5 | 1 | C |
| 408 | 3.3 | 42 | C | 5.8 | -15 | 132 | -3.3 | 3.3 | -2.0 | 2 | C |
| 396 | 3.3 | 39 | C | 6.0 | 1 | 145 | -4.6 | 3.1 | -0.6 | 2 | C |

09/28/79 – 10/05/79

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HR   VEL  DEN TEMP/ PLS   AV B GSE GSE  BXGSM BYGSM BZGSM SG IMF VEL  DEN TEMP/ PLS   AV B GSE GSE  BXGSM BYGSM BZGSM SG IMF
               1000 SC    MAGN LAT LON                        SC           1000 SC    MAGN LAT LON                        SC

                        SEP. 28, 1979                        271                    SEP. 29, 1979                        272

 1   396  3.0  31  J    6.3  20 151   -4.7   3.0   1.3  3 J      430  5.2 101  C    8.2 -27 161   -5.2   1.1  -3.2  4 C
 2   410  3.0  28  J    6.1 -10 137   -3.7   3.1  -1.8  3 J      436  4.6  80  C    8.4 -13 141   -4.7   3.3  -2.4  5 C
 3   404  3.0  27  J    6.3  40 146   -3.9   3.7   2.9  2 J      372  7.2 271  L    9.1  -6 143   -6.5   4.4  -2.3  3 C
 4   403  3.2  28  J    6.4 -19 141   -4.6   2.8  -3.2  2 J      428  9.3 354  L    9.7   5 148   -8.2   5.0  -1.0  1 C
 5   430  3.8  35  J    6.6 -51 137   -2.7   0.5  -5.1  3 J      444  7.1 101  C    8.9   1 117   -3.8   6.9  -2.8  3 C
 6   426  4.1  37  J    6.7 -17 120   -2.4   3.1  -3.2  4 J      371  7.1 335  L    8.8  14 155   -7.6   4.1   0.3  1 C
 7   419  4.4  39  J    6.6 -25 140   -3.9   1.7  -3.6  3 C      370  5.2 344  L    8.0  11 164   -6.7   2.4   0.3  3 C
 8   420  4.0  43  C    6.9   0 125   -3.4   4.1  -2.5  3 C      343  4.3 252  L    8.7   5 140   -6.3   5.0  -2.2  2 C
 9   408  3.8  39  C    7.1   1 125   -3.8   4.5  -2.9  2 C      333  4.6 215  L    8.1  12 147   -6.5   4.5  -1.0  1 C
10   398  3.7  36  C    7.0  16 130   -4.2   5.2  -1.3  1 C      400  4.4  53  C    7.6   8 150   -6.5   3.7  -1.2  1 C
11   399  3.8  33  C    7.4  24 134   -4.6   5.6  -0.3  1 C      397  4.1  54  C    7.2  12 161   -6.5   2.6  -0.1  1 C
12   405  4.0  28  C    8.0  22 132   -4.9   6.2  -0.7  1 C      411  4.7  65  C    8.1   9 161   -6.8   2.6  -0.4  3 C
13   411  4.6  33  C    8.0  15 121   -3.9   6.5  -1.9  1 C      452  4.0  73  C    8.8 -22 123   -4.2   3.8  -6.3  2 C
14   407  4.7  41  C    7.9  25 129   -4.4   6.3  -0.0  1 C      495  3.2 114  C    7.5  35 170   -5.4   2.8   2.9  3 C
15   422  4.6  39  C    8.1   1 135   -4.9   4.4  -2.3  4 C      534  3.2 146  C    5.3  44 179   -3.0   1.5   2.6  3 C
16   400  4.5  45  C    8.7 -26 142   -5.7   2.5  -5.1  3 C      540  2.9 158  C    5.5  20 164   -3.6   1.5   0.7  3 C
17   327  3.7 161  L   10.3 -11 129   -6.2   6.2  -4.8  2 C      565  2.2 128  C    5.8 -11 152   -5.0   2.0  -2.1  0 C
18   356  3.6 194  L   10.2   6 121   -5.1   8.2  -2.0  2 C      552  1.9 109  C    5.2   3 158   -4.7   1.9  -0.4  1 C
19   353  3.9 197  L   10.2   9 120   -4.9   8.6  -1.1  1 C      562  2.2 115  C    5.6  21 149   -3.9   2.8   1.0  2 C
20   339  3.5 196  L    9.7  -5 124   -5.1   7.0  -2.8  3 C      520  2.1 134  C    6.3  30 149   -4.6   3.5   2.3  1 C
21   354  5.0 231  L    9.7 -21 138   -5.6   4.2  -4.0  5 C      538  2.8 190  C    5.9  56 147   -2.5   2.6   3.9  2 C
22   439  4.1  80  C    9.7 -54 148   -4.4   1.2  -7.6  4 C      568  2.7 212  C    4.1  45 306    0.5  -0.5   1.1  4 C
23   435  4.5  94  C    9.0  -6 137   -6.5   5.7  -2.2  1 C      523  2.6 137  C    7.2  13 131   -4.2   5.0   0.5  3 C
24   435  5.1  96  C    9.1 -16 151   -6.6   3.2  -2.9  4 C      536  3.2 184  C    7.2  10 137   -4.9   4.8   0.2  2 C

                        SEP. 30, 1979                        273                    OCT.  1, 1979                        274

 1   535  3.9 193  C    7.0  -2 144   -4.7   3.3  -1.0  3 C      416  4.3  48  C    5.6 -26 151   -4.3   1.8  -2.9  1 C
 2   527  3.9 177  C    7.1   5 135   -4.2   4.2  -0.5  3 C      416  4.3  48  C    5.5  -7 125   -3.0   4.0  -1.7  1 C
 3   523  4.1 182  C    7.1  11 140   -4.3   3.8  -0.1  3 C      403  4.6  50  C    5.0 -10 142   -3.4   2.3  -1.5  2 C
 4   521  4.3 173  C    6.8 -43 159   -4.2   0.0  -4.4  2 C      407  4.7  41  C    5.0  23 123   -1.8   3.1   0.3  3 C
 5   527  4.2 181  C    6.2 -22 186   -4.6  -1.2  -1.5  3 C      390  4.7  45  C    4.9  27 127   -2.6   4.1   0.6  0 C
 6   531  3.7 139  C    5.5   8 167   -5.0   1.3   0.2  1 C      392  4.6  44  C    4.9   5 137   -3.3   2.9  -1.0  2 C
 7   550  3.6 158  C    5.8  28 155   -4.2   2.9   1.2  1 C      436  4.7  43  C    5.1  22  86    0.3   4.9  -0.6  1 C
 8   537  3.3 130  C    5.8  13 151   -4.2   2.6  -0.3  2 C      397  4.3  53  C    4.9  17 157   -3.1   1.7   0.2  3 C
 9   548  3.8 138  C    6.1 -41 186   -4.3  -2.4  -2.8  2 C      398  4.4  44  C    4.8  27 119   -1.6   3.4  -0.2  3 C
10   529  4.0 128  C    6.1 -10 183   -5.9  -0.8  -0.7  1 C      399  4.3  47  C    5.0 -32 124   -2.1   1.3  -3.6  2 C
11   524  3.8  99  C    6.0  -7 160   -5.3   1.2  -1.7  2 C      414  4.4  53  C    5.2 -28 103   -0.6   1.3  -2.6  4 C
12   524  3.5 131  C    5.8  24 129   -2.8   3.9  -0.3  3 C      405  4.7  67  C    4.6 -24 108   -0.9   1.6  -2.7  3 C
13   509  2.9 107  C    5.4   9 148   -3.7   2.4  -0.7  2 C      391  4.6  73  C    4.5 -16 135   -2.6   1.6  -2.3  2 C
14   501  3.0 109  C    5.9   9 128   -2.5   3.1  -1.1  3 C      400  4.4  64  C    5.2  -1 107   -1.3   3.6  -2.3  2 C
15   489  3.2 113  C    6.1  -2 157   -3.8   1.3  -0.9  4 C      406  4.7  58  C    6.2 -17  90    0.0   3.8  -3.9  3 C
16   474  2.9  91  C    6.1   6 165   -5.0   1.5  -0.1  3 C      411  5.0  53  C    6.1  30  86    0.4   5.7   0.4  2 C
17   483  2.9  99  C    5.9  -5 151   -4.4   2.1  -1.4  3 C      403  5.2  50  C    6.1  37  85    0.4   5.6   1.4  2 C
18   472  2.8  87  C    5.9  11 132   -3.4   3.9  -0.4  2 C      336  5.0  49  C    6.0  49 105   -0.9   4.7   2.6  2 C
19   472  2.9  93  C    5.8  30 157   -4.4   2.6   2.1  1 C      380  5.4  48  C    5.9  65 172   -2.3   1.9   4.8  1 C
20   475  3.0 105  C    5.9  26 141   -3.8   3.6   1.5  2 C      352  5.6  50  C    5.8  27 156   -4.5   2.6   1.9  1 C
21   460  3.0  86  C    6.0   7 141   -4.2   3.5  -0.1  2 C      373  5.5  38  C    6.1   8 144   -3.9   3.0   0.0  3 C
22   446  2.9  75  C    6.1  -3 145   -4.9   3.2  -1.0  1 C      338  5.7 132  A    6.2  43 133   -2.6   3.5   2.9  2 C
23   430  3.1  63  C    5.9  -3 143   -4.6   3.3  -1.0  1 C      383  5.6  48  C    6.2  17 119   -2.2   4.2   0.6  4 C
24   416  4.0  52  C    5.6   4 139   -4.1   3.6  -0.4  1 C      380  5.7  38  C    6.1  37 117   -2.0   4.6   2.5  2 C

                        OCT.  2, 1979                        275                    OCT.  3, 1979                        276

 1   375  5.8  34  C    6.3  49 135   -2.9   3.8   3.9  1 C      438 12.5 168  L    6.5   3 124   -2.8   4.1  -0.7  4 J
 2   374  6.4  33  C    6.4  54 134   -2.6   3.9   4.2  1 C      474 10.5 111  C    8.6 -14  96   -0.8   6.8  -3.8  4 J
 3   375  7.2  38  C    6.0  55 105   -0.8   4.4   3.4  2 C      473 13.6 144  L    8.3 -33 163   -5.5   0.5  -4.1  5 J
 4   365  7.0  38  C    6.4  62 145   -2.5   3.5   4.6  1 C      475 13.7 139  L    7.7 -24 169   -6.0   0.2  -3.0  4 J
 5   353  6.1  53  C    6.5  42 160   -4.4   3.2   3.2  1 C                         5.5  25  90    0.0   3.8   0.1  4 J
 6   352  5.3   0  C    6.5  28 127   -3.5   5.4   0.7  0 C      491  7.9 158  J    5.7  -5 125   -2.7   3.3  -2.1  3 J
 7   352  6.0  43  C    6.5  13 222   -4.6  -3.0   3.2  1 C      494  6.5 130  J    4.0  33 151   -2.6   2.2   1.0  2 J
 8   339  6.5  31  C    7.0   1 200   -6.5  -1.9   1.3  1 C      503  6.1 114  J    3.6  23 172   -2.5   0.8   0.7  2 J
 9   337  6.3  29  C    7.2 -13 188   -6.7  -1.7  -0.8  2 C      518  6.4 111  J    4.2  30 310    1.9  -1.0   2.7  2 J
10   334  5.9  30  C    7.2 -23 184   -6.5  -1.9  -2.1  1 C      512  6.5  92  J    3.8  48 338    2.2   0.8   2.7  1 J
11   340  5.9  44  C    6.6 -37 163   -4.9  -0.9  -4.0  1 C      509  6.0  95  J    3.7  56  30    1.6   2.4   1.8  1 J
12   349  6.2  50  C    6.5 -42 152   -4.0  -0.6  -4.6  2 C      503  6.2  73  J    4.4  62  36    1.4   2.8   2.2  2 J
13   347  6.3  66  C    6.6 -33 148   -4.4   0.5  -4.4  2 C      501  7.3  63  J    4.7  74  64    0.5   3.2   3.0  2 J
14   358  6.2  63  C    6.9  15 125   -3.4   4.9  -1.2  3 C      488  9.7  65  J    4.0  82 245   -0.2   1.5   3.3  2 J
15   365  6.9  72  C    7.3 -10 113   -2.5   4.7  -3.9  2 C      474 14.1  68  J    3.0  47  19    1.2   1.0   1.0  2 J
16   384  7.6  79  C    7.7   2  98   -1.1   6.9  -3.0  1 C      453 10.3  64  J    3.2  21  69    0.7   1.9  -0.1  3 J
17   379  8.6  93  C    7.8 -25 115   -2.9   4.3  -5.3  1 C      469 11.2  67  J    6.5 -27  13    4.6   0.0  -2.6  4 J
18   394  8.3  70  C    8.6 -40 109   -2.1   3.8  -7.2  2 C      459  7.2  57  J    7.1   4  23    5.9   2.5  -0.4  3 J
19   386 11.2  52  C    9.3  17 103   -1.5   7.1  -0.0  6 C      451  8.3  72  J    7.1  12  30    5.9   3.7   0.4  2 J
20   394 14.8  25  C   10.7  45  76    1.8   8.8   5.2  2 C      435  8.2  35  J    4.8   9 293    1.4  -3.0   1.4  3 J
21   408 10.7  51  C   11.2  44 336    6.5  -1.3   7.4  5 C      444 11.8  26  J    4.9  -9 252   -1.3  -4.1   0.3  2 J
22   410 11.0  58  C   10.7  40  51    3.8   5.8   4.1  7 C      457 15.6  32  J    3.8  -2 213   -3.1  -2.0   0.3  1 J
23   417  9.1  93  C    9.1  -8 122   -4.1   6.2  -2.4  5 C      438 14.5  29  J    4.5   9 190   -3.9  -0.5   0.8  2 J
24   432 10.5 121  C    5.7  21 149   -3.5   2.4   1.1  3 C      423 13.5  29  J    5.0  17 171   -4.3   1.0   1.2  2 J

                        OCT.  4, 1979                        277                    OCT.  5, 1979                        278

 1   414 12.5  28  J    4.5 -12 186   -3.9  -0.6  -0.7  2 J      338  8.5  10  C    7.8  49 324    4.1  -1.6   6.4  0 J
 2   416 12.8  33  J    4.6  20 239   -2.1  -3.0   2.4  1 J      341  8.0  13  C    7.9  49 326    4.3  -1.3   6.5  0 J
 3   412 13.2  33  J    4.7  28 231   -2.2  -2.0   2.5  3 J      348  7.6  20  J    8.1  49 323    4.2  -1.2   6.8  0 J
 4   408 13.0  30  J    6.0   4 220   -4.5  -3.4   1.7  1 J      346  8.2  21  J    8.1  49 318    3.9  -1.2   7.0  1 J
 5   403 12.6  25  J    6.9  10 210   -5.8  -2.6   2.4  1 J      346  8.4  20  J    8.2  47 301    2.8  -2.0   7.3  1 J
 6   407 18.4  31  J    4.3 -22 193   -3.1  -1.2  -0.8  3 J      347  8.9  20  J    7.9  49 295    2.2  -1.6   7.4  1 J
 7   406 23.7  34  J    3.3 -34 174   -2.5  -0.6  -1.6  1 C      340 10.7  19  J    7.9  41 271    0.1  -2.7   7.3  1 J
 8   404 13.8  25  J    6.5 -27 141   -4.1   1.4  -4.0  3 C      395  8.3  31  J    6.4  38 342    3.7   0.5   3.2  4 J
 9   397 12.3  26  J    6.0 -71 154   -1.7  -2.3  -5.0  2 J      342  9.2  26  J    7.0  30 354    6.0   1.4   3.3  1 J
10   389 16.6  32  J    5.4 -53 140   -2.3  -0.6  -4.3  3 J      345  8.9  32  J    7.1  34 357    5.8   1.9   3.4  1 J
11   382 11.6  20  C    6.2 -87 295    0.0  -0.8  -1.1  6 J      339  8.3  16  J    7.1  27   2    6.1   1.9   2.5  1 J
12   383  8.4   9  C    7.6  33 320    4.9  -1.1   5.7  0 C      336  7.7  17  J    6.9  28 353    6.0   1.2   3.1  1 J
13   394  5.6  18  J    7.6  37 316    4.3  -1.0   6.0  1 J      344 10.9  26  J    5.7  29 329    3.8  -0.6   3.3  3 J
14   387  5.8  23  J    7.6  35 322    4.8  -1.0   5.6  1 J      342 11.7  26  J    4.9  -1  55    2.1   2.6  -1.6  3 J
15   381  5.8  24  J    7.8  38 326    5.0  -0.7   5.8  1 J      349  8.8  23  J    6.0 -46 112   -1.4   1.2  -5.1  3 J
16   368  7.1  18  J    7.6  32 329    5.2  -1.2   4.8  2 J      354 13.7  33  J    5.0 -43 140   -2.7   0.6  -3.9  2 J
17   370  8.5  20  J    7.4  35 326    4.8  -1.4   5.0  2 J      354 13.8  36  J    4.1 -30 158   -2.8   0.4  -2.1  2 J
18   365  7.0  17  J    7.4  33 333    5.5  -1.3   4.7  1 J      353 13.5  35  J    4.0 -25 184   -3.3  -0.7  -1.4  2 J
19   377  7.2  15  J    7.4  42 331    4.7  -1.1   5.4  1 J      362 12.6  28  J    4.5 -34  89    0.1   2.7  -3.3  1 J
20   358  8.7  15  J    7.5  37 344    5.6  -0.4   4.7  2 J      361 12.9  30  J    4.2 -49 162   -2.4   0.0  -3.0  2 J
21   348  4.6   9  L    7.6  40 356    5.7   0.7   4.8  1 J      353 11.4  16  C    5.2 -40 203   -3.7  -2.3  -2.9  0 J
22   349  4.9  16  J    8.0  41 343    5.7  -0.6   5.4  1 J      353 11.9  21  C    5.4 -46 214   -3.1  -2.9  -3.4  1 J
23   340  7.5  10  C    7.9  39 339    5.7  -1.2   5.3  1 J      360 11.6  25  J    5.1 -35 207   -3.4  -2.2  -2.2  2 J
24   349  7.0  19  J    7.6  47 337    4.7  -0.8   5.8  1 J      350 12.8  23  J    4.9 -41 215   -2.8  -2.5  -2.5  2 J
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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 352 | 12.0 | 22 | J | 5.2 | -59 | 191 | -2.5 | -1.4 | -4.0 | 2 | J |
| 2 | 338 | 13.4 | 17 | J | 5.4 | -70 | 124 | -1.0 | 0.2 | -5.3 | 1 | J |
| 3 | 342 | 14.7 | 20 | J | 5.5 | -71 | 120 | -0.9 | -0.1 | -5.4 | 1 | J |
| 4 | 344 | 16.2 | 18 | J | 5.4 | -70 | 94 | -0.1 | -0.0 | -5.3 | 1 | J |
| 5 | 344 | 19.7 | 22 | J | 5.1 | -57 | 108 | -0.8 | 0.7 | -4.8 | 2 | J |
| 6 | 343 | 18.3 | 18 | J | 6.4 | -84 | 196 | -0.6 | -2.9 | -5.5 | 1 | J |
| 7 | 342 | 15.9 | 20 | J | 7.7 | -60 | 250 | -1.3 | -6.4 | -4.1 | 1 | J |
| 8 | 333 | 19.4 | 15 | C | 7.6 | -49 | 261 | -0.8 | -7.1 | -2.3 | 1 | J |
| 9 | 337 | 19.2 | 12 | J | 6.2 | -51 | 263 | -0.5 | -5.8 | -1.9 | 1 | J |
| 10 | 334 | 21.1 | 11 | J | 6.2 | -49 | 249 | -1.5 | -5.8 | -1.7 | 1 | J |
| 11 | 320 | 25.9 | 12 | C | 5.8 | -59 | 216 | -2.4 | -4.3 | -3.1 | 1 | J |
| 12 | 368 | 29.7 | 72 | C | 12.7 | -38 | 138 | -6.3 | 1.0 | -8.6 | 9 | J |
| 13 | 434 | 59.7 | 153 | J | 14.6 | -50 | 101 | -0.8 | 0.7 | -6.2 | 14 | J |
| 14 | 438 | 58.5 | 171 | J | 12.2 | -6 | 229 | -5.8 | -6.2 | 2.6 | 9 | J |
| 15 | 435 | 56.9 | 166 | J | 13.6 | -47 | 175 | -5.8 | -2.5 | -5.7 | 11 | J |
| 16 | 445 | 49.0 | 125 | J | 14.5 | -19 | 280 | 2.2 | -13.1 | 1.5 | 7 | J |
| 17 | 415 | 73.2 | 77 | J | 9.8 | 49 | 158 | -3.1 | 2.6 | 3.1 | 9 | J |
| 18 | 429 | 54.2 | 77 | J | 16.2 | 89 | 320 | 0.2 | 4.2 | 12.1 | 11 | J |
| 19 | 430 | 41.7 | 83 | J | 17.3 | 80 | 74 | 0.8 | 7.6 | 15.1 | 3 | J |
| 20 | 418 | 35.3 | 62 | J | 18.6 | 66 | 321 | 5.3 | -0.3 | 16.0 | 8 | J |
| 21 | 397 | 23.2 | 62 | J | 19.4 | 28 | 299 | 8.1 | -12.2 | 11.9 | 4 | J |
| 22 | 400 | 22.3 | 85 | J | 17.2 | 10 | 295 | 6.3 | -12.7 | 5.4 | 8 | J |
| 23 | 389 | 27.6 | 69 | J | 16.5 | 11 | 305 | 8.8 | -11.7 | 5.4 | 5 | J |
| 24 | 383 | 27.7 | 66 | J | 16.7 | -21 | 303 | 8.3 | -13.8 | -3.1 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 473 | 3.8 | 87 | J | 8.9 | -37 | 157 | -6.5 | 1.5 | -5.8 | 1 | J |
| 2 | 468 | 4.7 | 68 | J | 9.1 | -27 | 165 | -7.7 | 1.0 | -4.5 | 2 | J |
| 3 | 484 | 8.9 | 218 | J | 9.3 | -26 | 153 | -7.4 | 2.4 | -5.0 | 1 | J |
| 4 | 471 | 8.5 | 107 | J | 10.7 | -5 | 149 | -9.1 | 4.8 | -2.7 | 2 | J |
| 5 | 456 | 5.0 | 44 | J | 12.0 | 6 | 148 | -10.0 | 6.2 | -1.3 | 2 | J |
| 6 | 452 | 5.2 | 58 | J | 11.6 | 11 | 152 | -10.0 | 5.7 | -0.3 | 2 | J |
| 7 | 453 | 5.1 | 84 | C | 12.1 | 8 | 140 | -9.1 | 7.4 | -2.2 | 2 | C |
| 8 | 458 | 4.7 | 80 | C | 11.8 | -6 | 141 | -8.6 | 5.4 | -4.6 | 3 | C |
| 9 | 456 | 4.6 | 114 | C | 10.2 | -17 | 133 | -6.5 | 4.3 | -6.2 | 2 | C |
| 10 | 481 | 4.0 | 119 | C | 8.7 | -44 | 128 | -3.6 | 0.7 | -7.3 | 3 | J |
| 11 | 504 | 4.0 | 227 | C | 8.3 | -55 | 131 | -2.8 | -0.8 | -6.8 | 4 | J |
| 12 | 492 | 3.8 | 178 | C | 8.8 | -10 | 137 | -5.7 | 3.7 | -4.1 | 4 | J |
| 13 | 501 | 4.3 | 147 | J | 7.9 | 19 | 167 | -6.0 | 2.3 | 1.0 | 4 | J |
| 14 | 497 | 3.8 | 182 | C | 7.4 | 59 | 184 | -3.2 | 2.6 | 4.8 | 4 | J |
| 15 | 491 | 4.0 | 343 | L | 8.2 | 46 | 166 | -4.8 | 3.5 | 3.9 | 4 | J |
| 16 | 523 | 3.2 | 125 | J | 7.7 | -2 | 145 | -5.6 | 3.4 | -1.9 | 4 | J |
| 17 | 572 | 3.4 | 225 | J | 7.1 | -1 | 139 | -4.5 | 3.5 | -1.6 | 4 | J |
| 18 | 596 | 4.3 | 205 | J | 6.9 | 1 | 116 | -2.7 | 5.2 | -1.7 | 3 | J |
| 19 | 543 | 3.6 | 202 | J | 7.2 | -10 | 127 | -4.0 | 4.8 | -2.7 | 2 | J |
| 20 | 503 | 4.0 | 141 | J | 7.0 | 1 | 135 | -4.7 | 4.5 | -1.1 | 2 | J |
| 21 | 513 | 3.8 | 105 | J | 7.5 | -28 | 126 | -3.3 | 3.7 | -3.9 | 4 | J |
| 22 | 524 | 4.8 | 98 | J | 7.5 | -57 | 101 | -0.6 | 2.1 | -5.6 | 4 | J |
| 23 | 477 | 4.5 | 64 | J | 7.7 | -12 | 131 | -4.6 | 4.9 | -2.5 | 3 | J |
| 24 | 473 | 5.1 | 48 | J | 7.9 | -22 | 123 | -3.6 | 4.9 | -3.8 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 452 | 6.6 | 93 | J | 5.7 | -25 | 124 | -2.1 | 2.7 | -2.4 | 4 | J |
| 2 | 472 | 6.1 | 69 | J | 5.8 | -58 | 41 | 2.3 | 0.7 | -5.2 | 1 | J |
| 3 | 436 | 5.8 | 187 | A | 5.5 | -69 | 54 | 1.1 | 0.0 | -4.9 | 3 | J |
| 4 | 456 | 6.7 | 111 | J | 5.5 | -74 | 207 | -1.2 | -2.2 | -4.2 | 3 | J |
| 5 | 433 | 6.0 | 104 | J | 5.1 | 0 | 194 | -3.6 | -0.8 | 0.3 | 3 | J |
| 6 | 449 | 6.2 | 192 | A | 5.5 | -49 | 39 | 2.0 | 0.2 | -3.4 | 4 | J |
| 7 | 425 | 5.8 | 109 | C | 4.9 | -33 | 134 | -2.3 | 1.0 | -3.0 | 3 | J |
| 8 | 430 | 5.7 | 117 | C | 4.8 | -35 | 224 | -2.3 | -3.1 | -0.8 | 3 | C |
| 9 | 428 | 5.9 | 115 | C | 4.8 | -73 | 213 | -1.0 | -2.8 | -3.0 | 2 | C |
| 10 | 447 | 5.4 | 109 | C | 4.4 | -56 | 339 | 2.0 | -2.4 | -2.2 | 2 | C |
| 11 | 449 | 5.5 | 108 | C | 5.5 | -37 | 10 | 4.2 | -1.2 | -3.1 | 1 | J |
| 12 | 444 | 5.0 | 104 | C | 5.2 | -38 | 359 | 3.9 | -1.7 | -2.5 | 2 | J |
| 13 | 441 | 4.8 | 90 | C | 5.2 | -14 | 39 | 3.9 | 2.0 | -2.7 | 1 | C |
| 14 | 413 | 6.3 | 89 | C | 4.9 | -11 | 227 | -2.3 | -2.4 | 0.7 | 3 | C |
| 15 | 411 | 6.6 | 96 | C | 4.5 | -36 | 219 | -2.6 | -3.0 | -1.1 | 2 | C |
| 16 | 416 | 7.3 | 90 | C | 5.3 | -45 | 124 | -1.8 | 1.1 | -4.1 | 3 | C |
| 17 | 408 | 7.0 | 92 | C | 5.4 | -14 | 131 | -3.2 | 3.0 | -2.5 | 2 | C |
| 18 | 398 | 6.8 | 75 | C | 6.1 | 0 | 145 | -4.9 | 3.2 | -1.1 | 1 | C |
| 19 | 410 | 7.4 | 73 | C | 6.2 | -33 | 158 | -4.3 | 0.8 | -3.4 | 3 | J |
| 20 | 383 | 8.7 | 67 | C | 7.0 | -21 | 167 | -6.4 | 0.8 | -2.8 | 1 | J |
| 21 | 383 | 9.6 | 98 | L | 6.8 | -2 | 130 | -4.3 | 5.0 | -1.3 | 1 | J |
| 22 | 382 | 10.3 | 106 | L | 6.3 | -1 | 116 | -2.7 | 5.4 | -1.2 | 1 | J |
| 23 | 385 | 9.0 | 91 | L | 7.4 | 19 | 127 | -3.9 | 5.5 | 1.2 | 3 | J |
| 24 | 377 | 7.7 | 97 | L | 7.4 | 15 | 145 | -5.8 | 4.3 | 1.1 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 360 | 5.5 | 47 | C | 5.1 | 24 | 127 | -2.5 | 3.7 | 1.1 | 2 | C |
| 2 | 359 | 5.3 | 51 | C | 4.1 | 39 | 114 | -1.1 | 2.9 | 1.5 | 2 | C |
| 3 | 346 | 6.1 | 49 | C | 4.8 | 14 | 155 | -3.9 | 2.0 | 0.5 | 2 | C |
| 4 | 351 | 6.0 | 45 | C | 4.1 | 0 | 135 | -2.4 | 2.3 | -0.8 | 2 | C |
| 5 | 367 | 8.6 | 31 | C | 5.5 | 39 | 222 | -2.9 | -1.2 | 3.9 | 2 | C |
| 6 | 372 | 8.8 | 28 | C | 5.9 | 50 | 124 | -1.4 | 3.2 | 1.9 | 4 | C |
| 7 | 369 | 7.4 | 19 | C | 6.4 | 56 | 154 | -2.6 | 3.2 | 3.2 | 3 | C |
| 8 | 387 | 7.0 | 25 | C | 6.3 | 71 | 63 | 0.8 | 3.8 | 3.5 | 3 | C |
| 9 | 380 | 6.8 | 20 | C | 6.4 | 51 | 95 | -0.3 | 5.7 | 1.9 | 2 | C |
| 10 | 395 | 6.9 | 25 | C | 6.3 | 29 | 74 | 1.4 | 5.4 | -0.3 | 3 | C |
| 11 | 397 | 6.4 | 27 | C | 6.3 | -9 | 66 | 2.3 | 3.9 | -3.7 | 2 | C |
| 12 | 379 | 5.9 | 25 | C | 6.4 | 16 | 103 | -1.3 | 5.8 | -1.8 | 1 | C |
| 13 | 378 | 6.9 | 25 | C | 5.7 | 18 | 82 | 0.7 | 5.4 | -1.3 | 1 | C |
| 14 | 373 | 6.8 | 27 | C | 5.1 | 16 | 96 | -0.5 | 4.7 | -1.2 | 1 | C |
| 15 | 368 | 6.7 | 29 | C | 4.6 | 3 | 102 | -0.9 | 3.9 | -1.8 | 1 | C |
| 16 | 366 | 6.5 | 26 | C | 4.7 | -27 | 89 | 0.1 | 2.7 | -3.6 | 1 | C |
| 17 | 351 | 7.1 | 28 | C | 4.9 | -20 | 107 | -1.2 | 3.1 | -2.9 | 2 | C |
| 18 | 348 | 7.6 | 38 | C | 5.0 | -10 | 132 | -2.8 | 2.7 | -1.7 | 2 | C |
| 19 | 352 | 7.5 | 33 | C | 4.8 | 10 | 151 | -2.3 | 1.4 | 0.1 | 4 | C |
| 20 | 345 | 8.4 | 39 | C | 5.1 | 3 | 199 | -3.9 | -1.3 | 0.6 | 2 | C |
| 21 | 358 | 10.8 | 52 | C | 7.2 | -8 | 206 | -5.0 | -2.5 | -0.3 | 3 | C |
| 22 | 366 | 10.3 | 44 | C | 8.2 | -38 | 219 | -4.4 | -4.3 | -3.6 | 4 | C |
| 23 | 383 | 10.0 | 39 | C | 8.1 | -32 | 97 | -0.7 | 5.0 | -4.6 | 4 | C |
| 24 | 386 | 9.0 | 48 | C | 6.8 | 35 | 79 | 0.8 | 4.6 | 2.1 | 4 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 378 | 26.3 | 45 | J | 16.3 | -7 | 307 | 9.7 | -13.0 | 0.9 | 1 | J |
| 384 | 20.0 | 24 | J | 16.7 | -30 | 308 | 8.8 | -13.0 | -5.1 | 3 | J |
| 396 | 11.5 | 29 | J | 16.4 | -32 | 305 | 7.9 | -13.3 | -4.9 | 2 | J |
| 406 | 6.9 | 21 | J | 16.2 | -31 | 305 | 7.8 | -13.3 | -3.9 | 3 | J |
| 430 | 12.0 | 172 | J | 10.9 | 21 | 317 | 6.4 | -4.2 | 5.4 | 6 | J |
| 437 | 17.5 | 89 | J | 10.4 | -73 | 185 | -2.9 | -4.5 | -8.6 | 2 | J |
| 413 | 10.8 | 40 | C | 17.3 | 68 | 77 | 1.5 | 13.2 | 10.8 | 2 | C |
| 409 | 12.5 | 45 | J | 16.8 | 43 | 85 | 1.0 | 15.1 | 3.2 | 6 | J |
| 427 | 9.7 | 55 | C | 17.3 | 32 | 88 | 0.5 | 17.0 | -0.3 | 3 | J |
| 449 | 16.4 | 99 | J | 17.9 | 44 | 92 | -0.4 | 17.4 | 3.1 | 3 | J |
| 433 | 9.9 | 97 | J | 17.8 | 48 | 93 | -0.6 | 17.3 | 4.2 | 1 | J |
| 434 | 14.4 | 128 | J | 14.7 | 54 | 108 | -2.4 | 12.3 | 4.8 | 7 | J |
| 418 | 17.6 | 124 | J | 13.9 | 43 | 105 | -2.1 | 10.7 | 2.2 | 9 | J |
| 417 | 19.1 | 67 | J | 12.8 | -62 | 150 | -4.7 | -2.9 | -10.1 | 6 | J |
| 420 | 25.9 | 77 | J | 10.3 | -10 | 112 | -3.3 | 6.5 | -5.3 | 5 | J |
| 413 | 16.3 | 74 | J | 8.5 | 70 | 40 | 1.0 | 2.4 | 2.9 | 8 | J |
| 400 | 14.4 | 96 | J | 6.3 | 29 | 321 | 3.9 | -1.8 | 3.8 | 3 | J |
| 420 | 12.9 | 81 | J | 7.4 | 41 | 297 | 1.8 | -2.1 | 4.4 | 5 | J |
| 462 | 13.5 | 107 | J | 7.6 | 34 | 55 | 0.6 | 1.0 | 0.4 | 8 | J |
| 483 | 23.2 | 82 | J | 6.6 | -48 | 319 | 2.5 | -3.1 | -3.0 | 4 | J |
| 497 | 19.9 | 78 | J | 5.8 | -23 | 124 | -2.5 | 3.2 | -2.7 | 3 | J |
| 485 | 12.0 | 91 | J | 7.7 | -6 | 141 | -5.6 | 4.3 | -1.7 | 3 | J |
| 503 | 4.0 | 97 | J | 9.6 | -36 | 128 | -4.5 | 4.6 | -6.4 | 3 | J |
| 472 | 3.6 | 67 | J | 8.8 | -36 | 160 | -6.5 | 1.3 | -5.4 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 473 | 5.2 | 44 | J | 7.7 | -36 | 113 | -2.4 | 4.5 | -5.5 | 2 | J |
| 453 | 4.8 | 50 | C | 7.4 | -12 | 138 | -3.8 | 3.0 | -1.9 | 5 | C |
| 446 | 5.3 | 55 | C | 7.0 | 11 | 160 | -5.5 | 2.3 | 0.6 | 3 | C |
| 441 | 4.5 | 55 | C | 7.0 | -24 | 143 | -4.7 | 2.4 | -3.7 | 2 | C |
| 440 | 3.9 | 50 | C | 7.4 | -26 | 128 | -4.0 | 3.5 | -4.9 | 1 | C |
| 446 | 3.7 | 45 | C | 7.4 | -31 | 125 | -3.6 | 3.0 | -5.7 | 1 | C |
| 457 | 4.3 | 51 | J | 6.8 | -27 | 121 | -2.8 | 2.8 | -4.7 | 3 | J |
| 442 | 3.8 | 48 | J | 6.8 | -24 | 135 | -4.3 | 2.3 | -4.5 | 2 | J |
| 451 | 4.4 | 67 | J | 6.4 | -5 | 129 | -3.6 | 3.4 | -2.8 | 3 | J |
| 472 | 5.0 | 70 | J | 6.1 | -42 | 107 | -1.0 | 1.0 | -4.6 | 4 | J |
| 474 | 5.0 | 69 | J | 5.9 | -51 | 99 | -0.4 | 0.3 | -3.9 | 4 | J |
| 440 | 5.1 | 80 | C | 5.9 | 23 | 155 | -4.5 | 2.9 | 0.6 | 2 | C |
| 449 | 5.1 | 80 | C | 5.8 | 47 | 127 | -2.3 | 4.7 | 1.8 | 1 | C |
| 432 | 4.8 | 72 | C | 5.7 | 20 | 142 | -4.0 | 3.6 | -0.0 | 2 | C |
| 426 | 5.5 | 97 | J | 5.1 | 14 | 119 | -2.3 | 4.2 | -0.9 | 2 | J |
| 449 | 6.5 | 84 | J | 4.4 | -25 | 95 | -0.3 | 2.3 | -2.8 | 2 | J |
| 424 | 5.8 | 71 | J | 5.6 | -4 | 127 | -2.9 | 3.5 | -1.8 | 3 | J |
| 433 | 5.7 | 63 | J | 5.8 | 34 | 116 | -1.8 | 4.4 | 1.4 | 3 | J |
| 448 | 6.1 | 66 | J | 6.0 | -44 | 94 | -0.3 | 2.7 | -4.9 | 2 | J |
| 439 | 5.3 | 61 | J | 5.1 | -13 | 112 | -1.1 | 2.4 | -1.3 | 4 | J |
| 449 | 5.8 | 89 | J | 5.1 | -37 | 97 | -0.4 | 2.6 | -3.0 | 3 | J |
| 426 | 5.7 | 84 | J | 4.7 | -6 | 137 | -2.5 | 2.3 | -0.8 | 3 | J |
| 429 | 6.5 | 144 | J | 5.1 | 64 | 153 | -1.8 | 1.7 | 4.0 | 2 | J |
| 430 | 5.8 | 115 | J | 5.3 | 37 | 189 | -3.5 | -0.0 | 2.8 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 384 | 7.4 | 91 | L | 7.1 | 33 | 155 | -5.3 | 3.2 | 3.2 | 1 | J |
| 382 | 6.8 | 92 | L | 7.1 | 34 | 165 | -5.4 | 2.3 | 3.3 | 2 | J |
| 382 | 6.1 | 58 | C | 7.5 | 27 | 181 | -6.5 | 0.8 | 3.2 | 1 | J |
| 387 | 11.1 | 91 | L | 6.5 | 52 | 173 | -3.6 | 2.0 | 4.2 | 2 | J |
| 385 | 11.3 | 98 | L | 7.4 | 55 | 156 | -3.6 | 3.7 | 4.6 | 3 | J |
| 373 | 9.3 | 106 | L | 6.8 | 39 | 139 | -3.8 | 4.7 | 2.3 | 2 | C |
| 367 | 7.3 | 155 | L | 7.3 | 48 | 177 | -4.7 | 2.7 | 4.5 | 2 | C |
| 291 | 4.2 | 133 | L | 8.3 | -10 | 99 | -1.2 | 6.1 | -5.3 | 1 | C |
| 287 | 4.6 | 112 | L | 8.4 | 5 | 104 | -2.0 | 7.2 | -3.7 | 1 | C |
| 313 | 5.5 | 150 | L | 8.4 | 16 | 88 | 0.3 | 7.8 | -2.5 | 2 | C |
| 319 | 5.9 | 170 | L | 8.7 | 11 | 77 | 1.6 | 6.6 | -2.8 | 4 | C |
| 326 | 6.4 | 248 | L | 8.6 | 14 | 96 | -0.6 | 6.0 | -2.1 | 6 | C |
| 337 | 4.5 | 191 | L | 8.1 | 14 | 100 | -1.2 | 6.7 | -2.2 | 3 | C |
| 388 | 6.4 | 31 | C | 7.9 | 22 | 92 | -0.2 | 7.2 | -1.0 | 3 | C |
| 396 | 6.8 | 38 | C | 7.5 | -2 | 60 | 3.7 | 5.5 | -3.1 | 2 | C |
| 388 | 6.1 | 49 | C | 6.8 | -10 | 69 | 2.2 | 4.9 | -3.5 | 2 | C |
| 373 | 3.4 | 56 | C | 6.8 | 25 | 165 | -5.5 | 2.3 | 1.9 | 3 | C |
| 373 | 2.9 | 47 | C | 7.0 | 27 | 167 | -6.0 | 2.4 | 2.4 | 1 | C |
| 385 | 2.5 | 42 | C | 6.3 | 25 | 156 | -5.0 | 2.9 | 1.8 | 2 | C |
| 335 | 3.4 | 220 | L | 6.3 | -2 | 123 | -2.7 | 4.1 | -1.2 | 3 | C |
| 345 | 2.7 | 235 | L | 7.0 | 22 | 148 | -5.5 | 3.9 | 1.9 | 1 | C |
| 385 | 2.4 | 54 | C | 7.2 | 21 | 133 | -4.6 | 5.2 | 1.5 | 1 | C |
| 327 | 2.9 | 206 | L | 6.4 | 37 | 128 | -3.1 | 4.7 | 3.0 | 1 | C |
| 366 | 5.3 | 37 | C | 5.8 | 20 | 118 | -2.3 | 4.7 | 1.0 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 386 | 9.0 | 43 | C | 6.9 | 28 | 81 | 0.5 | 3.5 | 1.0 | 5 | C |
| 370 | 9.3 | 51 | C | 7.4 | 6 | 123 | -1.8 | 2.8 | -0.4 | 6 | C |
| 349 | 9.9 | 52 | C | 7.4 | 0 | 169 | -5.0 | 0.9 | -0.3 | 5 | C |
| 384 | 7.8 | 68 | C | 7.6 | -64 | 127 | -1.1 | 0.1 | -3.9 | 6 | C |
| 444 | 7.8 | 79 | C | 7.1 | 32 | 339 | 4.4 | -0.4 | 3.3 | 4 | C |
| 417 | 8.8 | 57 | C | 6.3 | 61 | 10 | 2.9 | 2.7 | 4.4 | 2 | C |
| 406 | 8.3 | 69 | C | 6.3 | 44 | 344 | 4.0 | 0.9 | 4.1 | 2 | C |
| 434 | 13.5 | 45 | C | 5.6 | -4 | 315 | 3.2 | -2.9 | 1.3 | 3 | C |
| 445 | 9.7 | 53 | C | 7.1 | 9 | 314 | 4.7 | -3.5 | 3.5 | 2 | C |
| 443 | 8.4 | 55 | C | 7.0 | -1 | 312 | 4.4 | -4.2 | 2.6 | 2 | C |
| 434 | 9.5 | 61 | C | 4.6 | 13 | 269 | -0.0 | -1.6 | 1.6 | 4 | C |
| 405 | 7.0 | 68 | C | 2.4 | 44 | 189 | -0.7 | 0.3 | 0.6 | 2 | C |
| 400 | 7.1 | 83 | C | 4.0 | 11 | 352 | 3.7 | -0.1 | 0.9 | 1 | C |
| 393 | 8.1 | 81 | C | 2.5 | 16 | 341 | 1.9 | -0.3 | 0.9 | 1 | C |
| 444 | 4.9 | 94 | C | 3.1 | 6 | 283 | 0.4 | -1.4 | 0.9 | 2 | C |
| 401 | 5.5 | 90 | C | 4.5 | 18 | 294 | 1.4 | -2.5 | 2.4 | 2 | C |
| 396 | 5.0 | 60 | C | 5.8 | -9 | 179 | -5.6 | -0.3 | -0.9 | 1 | C |
| 406 | 6.4 | 50 | C | 6.5 | -13 | 174 | -6.0 | 0.1 | -1.5 | 2 | C |
| 439 | 13.5 | 34 | C | 5.7 | -21 | 257 | -1.1 | -4.9 | -0.5 | 3 | C |
| 449 | 13.0 | 37 | C | 4.3 | -35 | 239 | -1.6 | -3.0 | -1.4 | 2 | C |
| 450 | 10.7 | 65 | C | 4.8 | -15 | 310 | 2.5 | -3.2 | -0.4 | 2 | C |
| 463 | 3.1 | 66 | C | 7.9 | -11 | 319 | 5.8 | -5.3 | -0.5 | 1 | C |
| 434 | 3.7 | 45 | C | 7.9 | -23 | 312 | 4.7 | -5.7 | -1.9 | 2 | C |
| 414 | 4.0 | 43 | C | 8.6 | -8 | 312 | 5.7 | -6.4 | 0.1 | 1 | C |

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OF POOR QUALITY

10/14/79 – 10/21/79

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HR      VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                 1000   SC  MAGN LAT LON                     SC                1000   SC  MAGN LAT LON                     SC

                           OCT. 14, 1979               287                            OCT. 15, 1979              288

 1   417  8.0  29  C   7.7 -21 316   5.0 -5.3 -1.6 2 C    359  8.7  52  C   6.3  18 330   5.1 -2.4  2.4 1 C
 2   396  4.5  42  C   7.7 -12 321   5.6 -4.7 -0.5 2 C    372  6.2  56  C   6.8  20 340   5.8 -1.5  2.6 2 C
 3   408  3.4  59  C   7.7 -13 323   5.8 -4.7 -0.4 2 C    365  7.9  63  C   4.9  46   8   3.0  1.3  3.0 2 C
 4   395  3.2  32  C   8.3  -3 319   6.2 -5.2  1.3 0 C    350  7.0  74  C   4.9  23 335   3.4 -1.0  2.1 2 C
 5   387  3.4  41  C   8.4   0 325   6.8 -4.4  1.9 0 C    359  6.0  67  C   5.2   0 316   3.7 -3.3  1.4 1 C
 6   385  3.5  36  C   8.5   6 325   6.8 -4.0  2.9 1 C    367  5.1  60  C   6.0   3 316   4.2 -3.5  1.9 2 C
 7   384  3.7  41  C   8.4   0 321   6.4 -4.7  2.5 1 C    371  7.7  49  C   4.3 -11 333   3.4 -1.8  0.2 2 C
 8   406  8.0  33  C   7.2  11 324   5.6 -2.8  3.2 2 C    368  9.4  41  C   4.6 -30  49   2.4  1.3 -3.3 2 C
 9   397  6.7  34  C   7.3  15 318   5.1 -2.9  4.0 1 C    366  8.5  44  C   4.9 -14  50   2.9  2.3 -2.8 1 C
10   404  9.5  26  C   6.8  33 315   3.9 -1.4  5.2 1 C    360  9.6  37  C   4.5   2  54   2.5  3.0 -1.8 1 C
11   377  9.6  36  C   6.5  27 315   3.1 -1.3  3.6 4 C    375  9.4  28  C   4.7 -10  68   1.7  3.0 -2.9 1 C
12   360  9.4  27  C   7.3  -3 300   3.6 -5.5  3.1 1 C    376  8.8  31  C   4.9 -28  86   0.3  2.3 -4.2 1 C
13   360  9.2   0  C   7.4  -9 291   2.6 -6.4  2.6 0 C    369  8.5  35  C   4.6 -36  51   2.3  1.0 -3.7 1 C
14   350 12.7  16  C   7.5 -15 322   5.8 -4.8  0.5 0 C    366  8.4  20  C   4.8 -41  80   0.6  1.5 -4.5 1 C
15   353 15.7  20  C   7.5 -24 322   5.3 -5.0 -0.7 1 C    352  7.6  14  C   5.5 -46 109  -1.3  1.4 -5.1 1 C
16   355 18.9  22  C   8.8 -18 301   4.3 -7.5  0.6 2 C    361  8.6  16  C   5.2 -52 103  -0.7  1.1 -5.0 1 C
17   366 18.7  36  C   8.8  12 281   1.6 -6.9  4.7 2 C    354  7.6  22  C   5.4 -25 338   4.1 -2.3 -1.3 2 C
18   362 16.5  41  C   9.2   5 284   2.1 -8.0  3.5 2 C    359  5.9  23  C   6.2   6 310   3.8 -4.0  2.0 2 C
19   356 14.7  36  C   9.4  11 294   3.4 -7.0  3.7 4 C    372  5.4  25  C   6.0 -25 302   2.8 -5.0 -1.2 1 C
20   353 12.5  49  C   8.0  39 310   3.5 -3.0  5.2 3 C    380  5.3  28  C   6.4 -43 304   2.4 -4.3 -3.1 2 C
21   353 10.8  44  C   7.5  52 315   2.7 -1.6  5.4 4 C    336  5.7  33  C   6.1 -41 288   1.3 -4.8 -2.8 2 C
22   354 10.0  50  C   7.3  54 334   3.3 -0.6  5.3 3 C    359  6.0  39  C   6.3 -12 295   2.3 -5.0 -0.2 3 J
23   360  9.0  47  C   6.9  -7 307   4.1 -5.5  0.2 1 C    376  5.2  44  C   6.4   4 304   3.1 -4.4  1.2 3 J
24   356  8.2  47  C   6.6   3 309   4.0 -4.9  1.3 1 C    337  4.8  58  C   5.6 -28 313   3.0 -3.5 -1.7 3 J

                           OCT. 16, 1979               289                            OCT. 17, 1979              290

 1   387  4.8  50  C   5.5 -13  65   2.2  4.3 -2.1 2 J    340  4.7  22  J   5.4  15 307   2.9 -3.5  2.0 2 J
 2   379  5.8  57  C   6.6 -18  59   3.1  4.6 -3.1 1 J    331  5.5  24  J   5.7   5 320   4.0 -3.1  1.2 2 J
 3   377  5.4  60  C   6.1 -14  33   5.0  2.7 -2.3 1 J    344  6.1  33  J   5.9  -1 307   3.0 -3.9  1.0 3 J
 4   387  5.7  51  C   5.4  29  16   3.2  1.5  1.4 4 C    346  6.3  37  J   6.1 -14 313   3.5 -4.0 -0.0 3 J
 5   376  5.9  58  C   5.5 -60 333   2.1 -2.6 -3.4 3 J    347  6.5  37  J   6.4  43 320   3.0 -1.0  4.4 3 J
 6   373  5.8  63  C   5.1  30  37   3.5  3.4  1.2 1 J    340  6.8  26  J   7.0  22 315   4.4 -2.9  4.1 2 J
 7   382  5.8  69  J   5.4  52  15   2.8  2.4  2.9 3 J    345  6.5  26  J   7.1 -26 310   3.8 -5.3 -0.4 3 J
 8   378  5.6  54  J   5.3  47 344   3.3  1.0  3.6 2 J    356  7.3  33  J   6.9  49 348   3.5  1.4  4.0 4 J
 9   375  5.3  51  J   5.0  -6 310   2.8 -3.1  1.4 2 J    326  5.2  19  J   7.4  32 331   5.2 -0.5  4.7 2 J
10   364  5.1  49  J   5.2 -21 327   3.9 -3.1 -0.1 2 J    326  5.5  16  J   7.9  26 321   5.4 -1.8  5.2 1 J
11   364  4.9  45  J   5.3 -18 327   4.0 -3.0  0.1 2 J    319  5.0  17  J   8.3  10 314   5.5 -4.0  4.3 2 J
12   353  5.7  80  J   5.1  16 349   4.0 -0.0  1.4 3 J    325  5.2  14  J   8.0  -4 307   4.7 -5.6  2.9 1 J
13   352  5.3  75  J   5.2   9 336   4.0 -1.1  1.5 3 J    322  4.8  18  J   8.1  11 318   5.7 -3.6  3.9 2 J
14   359  5.6  41  J   5.4 -43 301   1.9 -4.4 -1.4 2 J    326  5.7  16  J   8.1   8 307   4.8 -5.0  4.1 1 J
15   353  5.5  62  J   5.2  -9 314   3.1 -3.2  0.8 2 J    336  6.3  16  J   7.9 -14 299   3.5 -6.4  1.3 3 J
16   336  4.8  18  J   4.9  26 339   3.8 -0.5  2.4 2 J    325  5.3  17  J   8.2   9 318   5.7 -4.1  3.2 3 J
17   347  4.6  16  J   5.8  33 356   4.8  0.8  3.0 1 J    320  6.6  27  C   7.7  -5 316   5.4 -5.1  1.3 2 J
18   333  5.0  23  J   5.2   1 335   4.3 -1.9  0.7 2 J    315  6.6  20  C   7.8  12 330   6.2 -2.9  2.6 3 J
19   361  5.1  24  J   5.5 -47 296   1.6 -4.1 -2.8 2 J    316  4.6  23  J   7.9  17 310   4.7 -4.9  3.7 1 C
20   356  4.8  21  J   5.5 -25 289   1.5 -4.8 -1.1 2 J    318  5.0  23  J   7.9  14 322   5.6 -3.8  2.7 3 C
21   333  5.4  16  J   5.3   7 318   3.4 -2.9  1.2 3 J    312  4.6  16  J   7.9  -8 315   5.4 -5.5  0.0 1 J
22   331  5.0  20  J   5.3  -6 327   3.8 -2.5 -0.0 3 J    319  5.0  20  J   7.7 -24 321   5.3 -4.8 -2.2 1 J
23   333  4.3  21  J   5.0  21 325   3.5 -2.1  2.1 2 J    314  4.9  46  C   7.5  -5 303   4.0 -6.1  0.4 1 C
24   326  4.8  30  J   5.1  -3 343   4.4 -1.4  0.0 2 J    312  5.2  37  C   7.7 -19 313   4.6 -5.3 -1.4 3 C

                           OCT. 18, 1979               291                            OCT. 19, 1979              292

 1   291  5.6  32  C   8.3 -17 323   6.1 -5.0 -1.3 2 C    311  2.0  23  J   7.2 -15 295   2.7 -6.1 -0.6 3 J
 2   300  3.4  25  J   7.7 -26 330   5.2 -3.6 -2.2 3 J    299  1.7  21  J   7.4  14 315   4.9 -4.4  2.8 2 C
 3   299  2.9  25  J   7.2  -4 341   6.1 -2.2  0.1 3 J    277  3.9  28  C   7.6  19 308   4.4 -4.7  3.8 1 C
 4   290  3.1  30  J   7.2  -1   6   6.4  0.6 -0.3 3 J    292  3.8  32  C   7.4  29 324   4.9 -2.3  4.3 3 J
 5   308  3.0  26  J   6.8 -36 330   3.9 -3.3 -2.2 4 J    322  4.8  36  C   7.3  11 307   4.1 -4.5  3.2 2 J
 6   293  2.5  29  J   6.2  -2 340   4.7 -1.6  0.6 4 J    334  5.3  22  C   7.0 -30 270  -0.0 -6.8 -0.6 1 J
 7   281  2.5  23  J   6.4  -1   9   5.9  0.8 -0.5 2 J    336  4.6  19  C   7.3 -12 274   0.5 -6.9  1.9 1 C
 8   265  4.1  30  C   6.0  -2   3   5.8  0.2 -0.3 1 J    342  5.2  27  C   7.1 -17 265  -0.5 -6.8  1.5 1 C
 9   297  4.5  39  C   6.0 -13 353   5.5 -1.3 -0.7 2 J    342  6.6  18  C   6.8   1 269  -0.1 -5.6  3.6 1 C
10   271  4.3  37  C   5.7 -27 343   4.8 -2.6 -1.3 1 C    332  8.7  17  C   6.4   8 254  -1.7 -4.5  3.9 1 C
11   262  1.4  13  J   5.8 -20 314   3.7 -4.2  0.5 1 C    345  5.4  46  C   5.7  28 308   2.9 -1.7  4.1 2 J
12   290  4.5  37  C   6.2 -20 311   3.7 -4.8  0.6 1 C    333  4.3  49  C   6.2  41 331   3.8  0.2  4.4 2 J
13   280  4.4  32  C   6.5 -10 317   4.5 -4.1  1.2 2 J    352  3.6  68  C   6.5  56 329   3.1  1.2  5.5 1 J
14   285  2.7  26  J   6.7  -9 310   4.3 -4.9  1.6 1 J    341 11.1  12  C   6.4  40 314   3.4 -1.0  5.3 1 C
15   273  2.2  20  J   7.1 -11 319   5.2 -4.6  0.8 1 J    344  9.5  12  C   5.8  46 307   2.4 -1.0  5.2 0 C
16   286  2.5  28  J   7.2 -10 324   5.7 -4.3  0.6 0 C    337 12.2  11  C   5.5  51 313   2.3 -0.6  4.8 1 C
17   279  2.2  23  J   7.1   3 321   5.4 -3.9  1.9 2 J    335 11.8  17  J   4.9  50 314   2.1 -0.8  4.2 1 J
18   280  2.4  21  J   7.6  -5 319   5.4 -4.7  0.9 2 J    337  9.2  24  J   5.6  57   1   3.0  1.5  4.4 1 J
19   272  2.1  20  J   7.0  12 331   5.7 -2.7  2.2 1 J    333 14.0  13  C   5.2  58  26   2.5  2.3  3.9 1 C
20   281  2.5  23  J   6.8   9 341   6.0 -1.8  1.4 2 J    340 14.7  20  J   4.0  58  43   1.6  2.2  3.0 1 J
21   279  2.7  27  J   7.4  -4 337   6.2 -2.7  0.1 3 J    339 18.1  16  J   4.1  27  69   1.2  3.3  1.1 2 J
22   303  2.9  29  J   7.3 -23 312   4.4 -5.3 -1.9 1 J    340 18.9  19  J   3.0 -28  86   0.2  2.0 -1.6 2 J
23   276  1.8  22  J   7.4 -46 306   2.6 -4.3 -3.9 4 J    347 16.5  22  J   3.4 -48  78   0.4  1.6 -2.6 1 J
24   321  2.1  26  J   7.4 -31 311   3.8 -4.9 -2.6 3 J    334 12.5  23  J   4.2 -76 143  -0.7 -0.1 -3.7 2 J

                           OCT. 20, 1979               293                            OCT. 21, 1979              294

 1   325 14.8  21  J   3.2  36 228  -1.4 -1.2  1.7 2 J    306 16.2  21  C   9.1  29  94  -0.6  8.6  2.8 0 J
 2   330 14.1  18  J   3.3  81 221  -0.4  0.4  3.1 1 J    303 15.6  16  C   9.2   2  88   0.4  8.9 -1.7 1 C
 3   335 13.8  15  J   3.8  70  52   0.8  1.9  3.1 1 J    301 17.5  16  C   8.6  -6  88   0.2  7.9 -3.1 1 C
 4   328 14.1  23  J   4.1  61  57   1.1  2.7  2.9 1 J    299 15.8  17  C   7.6  -9  90   0.1  6.7 -3.4 1 C
 5   328 16.3  27  J   4.2  45  62   1.4  3.5  1.8 0 J    299 11.8  17  C   7.8  -3  99  -1.2  6.9 -3.2 1 C
 6   332 17.1  36  J   3.4  14 102  -0.4  1.8 -0.3 3 J    299 11.7  16  C   7.8 -10 101  -1.5  6.3 -4.3 1 C
 7   333 17.6  29  C   3.0 -19 120  -1.4  1.7 -1.9 1 J    297 11.2  13  C   7.9  -4 104  -2.0  6.5 -3.9 1 C
 8   329 14.2  20  C   5.8 -29 102  -1.1  2.9 -4.9 1 J    298  9.7  22  C   7.3  10 106  -1.9  6.4 -2.2 1 C
 9   332 14.4  20  C   6.7 -27  84   0.6  3.4 -5.5 2 J    286  9.1  28  C   7.0  -4 125  -3.9  4.5 -3.3 1 C
10   329 14.8  21  C   7.0 -13  79   1.3  4.7 -4.8 1 J    287  9.4  27  C   6.9   4 120  -3.3  5.0 -2.7 2 C
11   325 15.9  24  C   7.5   7  71   2.4  6.2 -3.0 1 J    299  9.0  37  C   6.7  22 108  -1.5  4.9 -0.8 4 J
12   330 13.0  22  J   7.1  30  76   1.5  6.8 -0.2 1 J    309  6.9  21  J   7.4   7 110  -2.4  6.2 -2.8 2 J
13   317 18.0  21  C   6.8  44  83   0.6  6.4  1.5 1 J    309 10.0  26  C   7.7   0 105  -1.9  6.2 -3.7 2 J
14   322 17.5  31  J   7.0  54 135  -2.5  4.5  3.0 4 J    310  8.5  22  J   7.8  -6 113  -2.8  5.4 -3.8 3 J
15   321 19.3  25  J   7.0  24  88   0.2  6.9 -0.3 1 J    310  9.5  21  J   7.1 -28 121  -2.8  2.9 -4.7 4 J
16   313 17.6  31  J   7.5  56 173  -3.6  2.6  4.8 4 J    318 11.6  32  J   5.7 -52 108  -1.1  1.2 -5.4 1 J
17   314 22.3  22  J   6.5  62 136  -1.5  2.7  3.1 5 J    317 11.7  31  J   5.8 -18  96  -0.6  4.5 -3.6 1 J
18   326 24.3  26  J   5.0   9  47   2.9  3.2 -0.3 3 J    307 10.0  37  C   7.2 -27 103  -1.2  4.3 -4.3 3 C
19   323 27.6  24  J   4.4  -1  51   2.6  3.1 -0.9 2 J    319 10.1  36  C   7.7 -24 105  -1.7  5.3 -4.4 3 C
20   314 24.6  22  J   4.3  29 121  -1.8  3.4  1.2 2 J    308  7.7  19  J   8.2 -54 154  -4.2  0.6 -6.7 2 J
21   309 24.1  23  J   5.9  43 160  -2.8  1.5  2.5 4 J    318  7.5  22  J   8.3 -55 114  -1.9  2.9 -7.3 1 J
22   314 11.9  20  J   9.0  45 154  -5.6  3.8  5.7 2 J    327  7.8  21  J   8.1 -56  97  -0.6  3.3 -7.4 1 J
23   318 10.7  22  J   9.3  54 141  -4.1  4.5  6.6 2 J    302  6.7  21  J   8.0 -45 141  -4.2  2.5 -5.9 2 J
24   311 15.2  23  C   9.0  37 104  -1.7  7.5  4.0 2 J    311  8.6  29  J   7.7 -17 106  -2.0  6.3 -3.3 2 J
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# 10/22/79 – 10/29/79

OCT. 22, 1979 295

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 311 | 8.2 | 25 | J | 7.6 | -25 | 112 | -2.4 | 5.4 | -4.1 | 2 | J |
| 2 | 306 | 8.1 | 28 | J | 7.5 | 16 | 121 | -3.5 | 6.1 | 0.6 | 2 | J |
| 3 | 318 | 10.6 | 31 | J | 7.7 | -32 | 104 | -1.5 | 4.7 | -5.2 | 3 | J |
| 4 | 311 | 8.7 | 23 | J | 7.7 | 21 | 113 | -2.7 | 6.9 | 0.6 | 2 | J |
| 5 | 311 | 8.3 | 33 | J | 7.8 | -6 | 119 | -2.9 | 4.7 | -2.5 | 5 | J |
| 6 | 315 | 8.4 | 32 | C | 8.0 | -61 | 132 | -2.5 | -0.2 | -7.3 | 2 | J |
| 7 | 326 | 6.3 | 39 | J | 7.6 | -33 | 103 | -1.3 | 3.4 | -6.1 | 2 | J |
| 8 | 322 | 6.1 | 42 | J | 7.6 | 7 | 111 | -2.5 | 6.0 | -2.4 | 3 | J |
| 9 | 334 | 5.3 | 41 | J | 7.4 | -2 | 112 | -2.2 | 4.6 | -3.0 | 4 | J |
| 10 | 333 | 5.2 | 64 | J | 6.7 | 48 | 143 | -3.2 | 4.4 | 2.5 | 3 | J |
| 11 | 339 | 5.3 | 71 | J | 6.1 | 24 | 125 | -2.4 | 3.9 | -0.3 | 4 | J |
| 12 | 343 | 5.5 | 65 | J | 5.6 | 40 | 175 | -3.3 | 1.7 | 2.2 | 3 | J |
| 13 | 327 | 7.4 | 76 | C | 5.2 | 31 | 215 | -3.7 | -0.8 | 3.6 | 1 | J |
| 14 | 324 | 7.4 | 69 | C | 5.7 | 13 | 141 | -3.8 | 3.2 | -0.5 | 3 | C |
| 15 | 337 | 6.6 | 56 | C | 6.0 | -15 | 124 | -2.4 | 2.7 | -2.7 | 3 | C |
| 16 | 362 | 5.1 | 41 | J | 6.6 | -35 | 89 | 0.1 | 3.4 | -5.5 | 1 | J |
| 17 | 349 | 4.5 | 35 | J | 6.5 | -48 | 100 | -0.7 | 2.3 | -5.8 | 2 | J |
| 18 | 334 | 6.1 | 38 | C | 6.6 | -12 | 117 | -2.7 | 4.7 | -2.9 | 2 | C |
| 19 | 347 | 5.0 | 27 | J | 5.8 | -37 | 101 | -0.8 | 3.3 | -4.3 | 2 | J |
| 20 | 341 | 5.5 | 26 | J | 5.6 | -33 | 113 | -1.7 | 3.4 | -3.7 | 2 | J |
| 21 | 330 | 7.5 | 32 | C | 5.9 | -10 | 117 | -2.0 | 3.6 | -1.4 | 4 | C |
| 22 | 329 | 7.3 | 29 | C | 5.8 | 13 | 127 | -2.3 | 3.1 | 0.4 | 4 | C |
| 23 | 332 | 6.2 | 20 | J | 5.3 | -37 | 134 | -1.6 | 1.4 | -2.0 | 4 | J |
| 24 | 325 | 6.2 | 17 | J | 5.3 | 39 | 119 | -1.9 | 3.9 | 2.6 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 320 | 8.3 | 20 | C | 5.6 | 15 | 120 | -2.2 | 4.1 | 0.5 | 3 | C |
| 2 | 334 | 7.8 | 23 | C | 5.5 | -14 | 92 | -0.2 | 4.3 | -2.2 | 2 | C |
| 3 | 323 | 8.2 | 21 | C | 5.3 | 20 | 108 | -1.3 | 4.3 | 0.5 | 3 | J |
| 4 | 313 | 8.2 | 19 | C | 5.4 | 23 | 128 | -2.2 | 3.2 | 0.6 | 3 | C |
| 5 | 309 | 7.8 | 19 | C | 5.6 | -25 | 120 | -2.5 | 3.2 | -3.7 | 1 | C |
| 6 | 310 | 8.0 | 20 | C | 5.7 | -30 | 129 | -3.1 | 2.3 | -4.1 | 1 | C |
| 7 | 322 | 6.1 | 16 | J | 5.7 | -33 | 106 | -1.3 | 2.6 | -4.7 | 2 | J |
| 8 | 325 | 6.2 | 20 | J | 5.7 | -64 | 123 | -1.2 | -0.6 | -5.0 | 2 | J |
| 9 | 334 | 5.1 | 18 | J | 5.7 | -54 | 127 | -1.9 | -0.1 | -5.0 | 2 | J |
| 10 | 318 | 5.3 | 33 | J | 5.9 | -11 | 134 | -3.8 | 2.7 | -3.0 | 2 | J |
| 11 | 329 | 5.3 | 20 | J | 5.7 | 45 | 118 | -1.8 | 4.8 | 1.4 | 2 | J |
| 12 | 330 | 5.3 | 25 | J | 5.5 | -20 | 118 | -2.0 | 2.4 | -3.3 | 3 | J |
| 13 | 334 | 5.8 | 21 | J | 5.6 | -46 | 121 | -1.8 | 0.8 | -4.7 | 2 | J |
| 14 | 315 | 7.4 | 31 | C | 6.1 | -19 | 129 | -3.0 | 2.5 | -3.2 | 3 | C |
| 15 | 314 | 7.4 | 25 | C | 6.3 | -29 | 135 | -3.7 | 2.1 | -4.2 | 2 | C |
| 16 | 311 | 7.8 | 26 | C | 6.6 | -2 | 142 | -4.7 | 3.3 | -1.6 | 2 | C |
| 17 | 312 | 8.0 | 25 | C | 6.9 | 3 | 128 | -4.1 | 5.0 | -1.5 | 2 | C |
| 18 | 320 | 8.6 | 22 | C | 7.3 | 34 | 137 | -4.2 | 4.9 | 2.6 | 2 | C |
| 19 | 327 | 8.5 | 29 | C | 7.3 | 5 | 127 | -3.3 | 4.4 | -0.6 | 4 | C |
| 20 | 320 | 8.5 | 30 | C | 7.0 | -26 | 133 | -3.8 | 3.3 | -3.5 | 3 | C |
| 21 | 337 | 9.4 | 25 | C | 7.0 | -35 | 96 | -0.6 | 4.4 | -4.4 | 3 | C |
| 22 | 334 | 9.1 | 24 | C | 7.0 | -30 | 113 | -2.3 | 4.7 | -4.1 | 2 | C |
| 23 | 328 | 9.6 | 29 | C | 6.9 | -22 | 118 | -2.7 | 4.6 | -3.1 | 3 | C |
| 24 | 330 | 9.2 | 25 | C | 7.0 | -21 | 114 | -2.4 | 4.9 | -3.0 | 3 | C |

OCT. 24, 1979 297

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 330 | 9.1 | 31 | C | 6.8 | -5 | 93 | -0.4 | 6.5 | -1.8 | 0 | C |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 322 | 7.9 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 316 | 7.8 | 32 | C | 7.3 | 2 | 131 | -4.6 | 4.9 | -2.2 | 1 | C |
| 8 | 332 | 9.2 | 35 | C | 7.2 | -9 | 110 | -2.3 | 5.1 | -4.0 | 2 | C |
| 9 | 320 | 9.3 | 38 | C | 7.0 | -26 | 132 | -4.0 | 2.3 | -4.8 | 1 | C |
| 10 | 305 | 10.2 | 146 | A |  |  |  |  |  |  |  |  |
| 11 | 331 | 9.2 | 116 | A |  |  |  |  |  |  |  |  |
| 12 | 343 | 9.7 | 45 | C | 7.0 | -24 | 84 | 0.6 | 3.9 | -5.7 | 0 | C |
| 13 | 340 | 10.5 | 44 | C | 6.9 | -17 | 103 | -1.3 | 3.9 | -4.3 | 3 | C |
| 14 | 334 | 10.2 | 43 | C | 7.2 | -69 | 176 | -2.3 | -2.7 | -5.3 | 3 | C |
| 15 | 324 | 10.1 | 44 | C | 7.1 | -46 | 154 | -4.0 | -0.3 | -4.9 | 3 | C |
| 16 | 334 | 9.7 | 39 | C | 7.9 | -4 | 111 | -2.4 | 5.5 | -2.9 | 4 | C |
| 17 | 336 | 9.4 | 41 | C | 8.1 | -13 | 104 | -1.8 | 5.9 | -3.9 | 3 | C |
| 18 | 330 | 9.6 | 43 | C | 7.9 | -7 | 112 | -2.7 | 6.1 | -2.8 | 2 | C |
| 19 | 320 | 9.7 | 43 | C | 8.0 | -7 | 131 | -4.8 | 5.2 | -2.2 | 3 | C |
| 20 | 315 | 10.4 | 38 | C | 7.7 | 24 | 149 | -5.7 | 3.9 | 2.2 | 2 | C |
| 21 | 320 | 10.6 | 39 | C | 7.5 | 20 | 133 | -4.3 | 4.9 | 1.4 | 3 | C |
| 22 | 320 | 10.6 | 35 | C | 7.4 | 35 | 154 | -5.0 | 3.0 | 3.5 | 2 | C |
| 23 | 319 | 10.7 | 36 | C | 7.8 | 13 | 134 | -5.1 | 5.4 | 0.9 | 2 | C |
| 24 | 315 | 11.1 | 39 | C | 7.7 | 24 | 151 | -5.7 | 3.6 | 2.4 | 2 | C |

OCT. 25, 1979 298

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 317 | 9.5 | 39 | C | 8.3 | 6 | 136 | -5.7 | 5.6 | -0.2 | 2 | C |
| 2 | 331 | 7.7 | 46 | C | 8.7 | -12 | 111 | -3.0 | 7.2 | -3.3 | 1 | C |
| 3 | 333 | 8.9 | 43 | C | 8.4 | -17 | 108 | -2.4 | 6.5 | -4.1 | 2 | C |
| 4 | 340 | 7.6 | 42 | C | 8.5 | -34 | 112 | -2.6 | 4.6 | -6.3 | 1 | C |
| 5 | 341 | 8.2 | 51 | C | 8.4 | -28 | 108 | -2.2 | 4.9 | -5.9 | 2 | C |
| 6 | 344 | 7.6 | 52 | C | 8.0 | -49 | 120 | -2.1 | 1.4 | -5.8 | 4 | C |
| 7 | 348 | 7.2 | 54 | C | 8.0 | -58 | 139 | -3.1 | -0.5 | -6.9 | 2 | C |
| 8 | 336 | 7.8 | 53 | C | 7.7 | -22 | 127 | -4.0 | 3.3 | -4.9 | 3 | C |
| 9 | 336 | 8.2 | 52 | C | 7.6 | -12 | 129 | -4.3 | 3.8 | -3.9 | 3 | C |
| 10 | 324 | 8.4 | 44 | C | 7.6 | 13 | 154 | -6.1 | 3.4 | -0.2 | 3 | C |
| 11 | 340 | 8.2 | 44 | C | 7.3 | 20 | 125 | -3.6 | 5.6 | -0.8 | 2 | C |
| 12 | 340 | 8.2 | 35 | C | 7.7 | -4 | 118 | -3.4 | 5.3 | -3.7 | 2 | C |
| 13 | 340 | 8.1 | 30 | C | 7.7 | -31 | 116 | -2.8 | 3.0 | -6.2 | 2 | C |
| 14 | 334 | 8.3 | 31 | C | 7.9 | -28 | 127 | -4.0 | 3.0 | -5.6 | 2 | C |
| 15 | 331 | 8.5 | 28 | C | 8.0 | -12 | 127 | -4.6 | 4.8 | -4.1 | 1 | C |
| 16 | 342 | 8.5 | 29 | C | 7.8 | 6 | 115 | -3.0 | 6.3 | -1.8 | 2 | C |
| 17 | 335 | 8.6 | 30 | C | 7.6 | 23 | 121 | -3.5 | 6.4 | 0.8 | 1 | C |
| 18 | 316 | 8.7 | 108 | A |  |  |  |  |  |  |  |  |
| 19 | 362 | 8.6 | 39 | C | 6.5 | -83 | 286 | 0.2 | -2.2 | -5.6 | 1 | C |
| 20 | 361 | 8.4 | 36 | C | 6.8 | -61 | 67 | 1.1 | 1.5 | -5.7 | 2 | C |
| 21 | 348 | 8.3 | 38 | C | 7.0 | -42 | 109 | -1.6 | 3.6 | -5.0 | 3 | C |
| 22 | 345 | 8.0 | 39 | C | 7.3 | -3 | 110 | -2.4 | 6.4 | -1.3 | 2 | C |
| 23 | 343 | 8.9 | 43 | C | 6.9 | -2 | 127 | -3.8 | 5.0 | -0.9 | 2 | C |
| 24 | 342 | 8.9 | 42 | C | 7.1 | -27 | 133 | -3.9 | 3.7 | -3.6 | 2 | C |

OCT. 26, 1979 299

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 345 | 8.5 | 35 | C | 7.4 | 15 | 110 | -2.4 | 6.8 | 0.8 | 1 | C |
| 2 | 343 | 8.7 | 37 | C | 7.1 | 21 | 111 | -2.3 | 6.4 | 1.2 | 1 | C |
| 3 | 341 | 8.6 | 37 | C | 6.6 | -5 | 122 | -3.3 | 4.9 | -1.8 | 2 | C |
| 4 | 340 | 8.5 | 53 | C | 5.8 | -6 | 132 | -3.7 | 3.8 | -1.8 | 1 | C |
| 5 | 342 | 8.7 | 62 | C | 4.9 | -22 | 180 | -2.9 | -0.4 | -1.1 | 4 | C |
| 6 | 345 | 8.7 | 66 | C | 3.8 | 4 | 217 | -2.5 | -1.6 | 1.0 | 2 | C |
| 7 | 342 | 8.6 | 61 | C | 5.4 | 8 | 219 | -3.8 | -2.4 | 2.0 | 2 | C |
| 8 | 348 | 8.3 | 63 | C | 5.3 | -31 | 239 | -1.8 | -3.7 | -0.4 | 3 | C |
| 9 | 351 | 8.2 | 63 | C | 5.5 | -11 | 227 | -2.5 | -2.7 | 0.7 | 4 | C |
| 10 | 351 | 7.6 | 61 | C | 5.6 | -19 | 250 | -1.6 | -4.5 | 0.9 | 2 | C |
| 11 | 351 | 8.1 | 56 | C | 5.9 | -41 | 218 | -2.2 | -2.7 | -1.1 | 4 | C |
| 12 | 363 | 7.4 | 57 | C | 5.9 | -59 | 68 | 1.0 | -0.1 | -5.2 | 2 | C |
| 13 | 351 | 7.3 | 63 | C | 5.3 | -33 | 106 | -0.9 | 1.7 | -3.5 | 3 | C |
| 14 | 347 | 7.2 | 53 | C | 5.9 | 2 | 101 | -1.0 | 4.7 | -2.2 | 2 | C |
| 15 | 330 | 7.5 | 57 | C | 5.0 | 6 | 209 | -3.9 | -1.8 | 1.4 | 2 | C |
| 16 | 340 | 7.3 | 55 | C | 6.0 | 19 | 117 | -2.4 | 5.0 | -0.1 | 2 | C |
| 17 | 347 | 6.9 | 52 | C | 6.1 | 1 | 100 | -1.0 | 5.3 | -1.8 | 2 | C |
| 18 | 332 | 6.9 | 47 | C | 5.5 | 12 | 137 | -3.6 | 3.5 | 0.1 | 2 | C |
| 19 | 341 | 7.1 | 58 | C | 4.7 | -32 | 216 | -2.7 | -2.4 | -1.6 | 2 | C |
| 20 | 330 | 7.4 | 56 | C | 4.9 | -25 | 174 | -3.7 | 0.0 | -1.8 | 2 | C |
| 21 | 332 | 7.5 | 46 | C | 5.4 | -20 | 193 | -4.8 | -1.3 | -1.5 | 1 | C |
| 22 | 339 | 7.6 | 52 | C | 5.2 | -8 | 124 | -2.5 | 3.5 | -1.1 | 2 | C |
| 23 | 333 | 7.2 | 45 | C | 5.1 | -14 | 125 | -2.5 | 3.4 | -1.6 | 2 | C |
| 24 | 331 | 7.3 | 41 | C | 5.2 | 6 | 132 | -3.2 | 3.5 | 0.0 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 332 | 7.3 | 40 | C | 5.1 | 16 | 111 | -1.6 | 4.5 | 0.6 | 1 | C |
| 2 | 328 | 7.6 | 34 | C | 5.2 | 9 | 107 | -1.2 | 4.1 | -0.1 | 3 | C |
| 3 | 323 | 7.5 | 30 | C | 5.0 | 8 | 133 | -3.3 | 3.6 | -0.2 | 1 | C |
| 4 | 322 | 8.1 | 28 | C | 4.4 | -19 | 118 | -1.8 | 2.8 | -2.2 | 2 | C |
| 5 | 325 | 8.5 | 26 | C | 4.2 | -68 | 88 | 0.0 | 0.1 | -3.2 | 3 | C |
| 6 | 329 | 9.1 | 22 | C | 4.3 | -58 | 45 | 1.6 | 0.0 | -3.8 | 1 | C |
| 7 | 327 | 9.3 | 24 | C | 4.4 | -45 | 76 | 0.6 | 1.2 | -3.6 | 2 | C |
| 8 | 322 | 9.6 | 23 | C | 4.5 | -60 | 107 | -0.6 | 0.0 | -4.0 | 2 | C |
| 9 | 319 | 10.0 | 29 | C | 4.5 | -42 | 94 | -0.2 | 1.3 | -4.0 | 1 | C |
| 10 | 315 | 10.2 | 28 | C | 4.9 | -3 | 100 | -0.7 | 3.4 | -2.4 | 2 | C |
| 11 | 318 | 10.1 | 29 | C | 4.3 | -22 | 99 | -0.5 | 2.1 | -2.8 | 2 | C |
| 12 | 316 | 9.8 | 29 | C | 4.3 | 16 | 100 | -0.7 | 3.9 | -1.1 | 1 | C |
| 13 | 313 | 9.6 | 24 | C | 4.7 | 51 | 120 | -1.4 | 3.8 | 1.8 | 1 | C |
| 14 | 317 | 9.9 | 26 | C | 4.7 | 58 | 97 | -0.3 | 3.4 | 2.0 | 2 | C |
| 15 | 320 | 10.0 | 27 | C | 5.0 | -11 | 73 | 1.1 | 3.1 | -2.3 | 2 | C |
| 16 | 321 | 10.7 | 29 | C | 4.9 | 13 | 96 | -0.5 | 4.3 | -0.7 | 2 | C |
| 17 | 318 | 10.6 | 32 | C | 5.0 | 14 | 104 | -1.1 | 4.4 | -0.4 | 2 | C |
| 18 | 312 | 11.1 | 29 | C | 5.3 | 38 | 134 | -2.6 | 3.4 | 2.0 | 2 | C |
| 19 | 319 | 11.1 | 30 | C | 5.6 | 13 | 120 | -2.0 | 3.7 | 0.1 | 3 | C |
| 20 | 329 | 11.6 | 33 | C | 5.6 | -23 | 90 | -0.0 | 4.0 | -2.7 | 2 | C |
| 21 | 321 | 11.9 | 30 | C | 5.5 | -3 | 107 | -1.3 | 4.3 | -0.9 | 3 | C |
| 22 | 318 | 12.4 | 29 | C | 6.4 | 39 | 121 | -2.3 | 4.4 | 3.1 | 2 | C |
| 23 | 320 | 13.1 | 24 | C | 6.3 | 65 | 206 | -2.4 | -0.4 | 5.7 | 1 | C |
| 24 | 315 | 12.7 | 25 | C | 7.1 | 61 | 160 | -2.9 | 1.8 | 5.4 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 306 | 12.6 | 31 | C | 6.7 | 4 | 132 | -4.3 | 4.9 | -0.3 | 0 | C |
| 2 | 312 | 12.7 | 27 | C | 6.3 | -20 | 129 | -3.1 | 3.4 | -2.5 | 3 | C |
| 3 | 311 | 13.2 | 32 | C | 6.2 | -3 | 128 | -3.4 | 4.1 | -1.3 | 2 | C |
| 4 | 324 | 13.8 | 35 | C | 6.3 | 12 | 109 | -1.6 | 5.0 | -0.3 | 2 | C |
| 5 | 315 | 15.3 | 35 | C | 6.7 | 27 | 112 | -2.0 | 5.6 | 0.9 | 2 | C |
| 6 | 315 | 15.3 | 34 | C | 7.0 | 13 | 111 | -2.3 | 6.1 | -1.0 | 2 | C |
| 7 | 305 | 14.4 | 33 | C | 7.2 | -28 | 132 | -3.7 | 2.4 | -4.6 | 3 | C |
| 8 | 316 | 12.8 | 25 | C | 7.8 | -19 | 97 | -0.9 | 4.8 | -5.2 | 3 | C |
| 9 | 323 | 12.9 | 18 | C | 8.7 | -33 | 85 | 0.6 | 3.9 | -7.7 | 1 | C |
| 10 | 321 | 14.0 | 16 | C | 9.1 | -36 | 78 | 1.5 | 3.4 | -8.2 | 1 | C |
| 11 | 322 | 14.7 | 15 | C | 9.2 | -53 | 62 | 2.6 | 0.4 | -8.8 | 1 | C |
| 12 | 316 | 13.1 | 18 | C | 9.4 | -44 | 77 | 1.5 | 2.3 | -8.9 | 1 | C |
| 13 | 330 | 8.6 | 32 | C | 10.0 | 0 | 121 | -4.8 | 7.0 | -4.0 | 3 | C |
| 14 | 330 | 8.2 | 63 | C | 9.2 | 23 | 140 | -6.4 | 6.4 | 0.7 | 1 | C |
| 15 | 341 | 8.0 | 72 | C | 9.1 | 43 | 153 | -5.6 | 5.1 | 4.1 | 2 | C |
| 16 | 344 | 7.7 | 83 | C | 8.9 | 40 | 137 | -4.2 | 5.6 | 3.1 | 4 | C |
| 17 | 338 | 6.8 | 87 | C | 9.3 | 47 | 149 | -5.3 | 5.2 | 5.3 | 1 | C |
| 18 | 349 | 6.6 | 91 | C | 9.1 | 59 | 176 | -4.4 | 2.4 | 7.1 | 2 | C |
| 19 | 344 | 5.6 | 87 | C | 9.4 | 48 | 157 | -5.6 | 3.8 | 5.9 | 2 | C |
| 20 | 330 | 5.3 | 84 | C | 9.0 | 45 | 143 | -5.0 | 4.9 | 5.4 | 1 | C |
| 21 | 339 | 4.6 | 98 | C | 9.2 | -29 | 103 | -1.8 | 6.9 | -5.6 | 1 | C |
| 22 | 372 | 3.9 | 112 | C | 9.8 | -55 | 57 | 3.1 | 3.5 | -8.5 | 1 | C |
| 23 | 343 | 5.2 | 105 | C | 9.3 | -42 | 95 | -0.5 | 5.2 | -6.2 | 4 | C |
| 24 | 347 | 6.7 | 53 | C | 9.5 | 2 | 112 | -2.0 | 4.9 | -0.5 | 7 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 340 | 6.6 | 33 | J | 9.3 | 54 | 130 | -3.3 | 5.0 | 6.4 | 4 | J |
| 2 | 332 | 5.6 | 32 | J | 9.0 | -29 | 129 | -4.4 | 4.6 | -4.8 | 4 | J |
| 3 | 328 | 6.0 | 38 | J | 7.9 | -43 | 143 | -4.2 | 1.9 | -5.5 | 3 | J |
| 4 | 333 | 7.7 | 34 | J | 8.1 | -17 | 135 | -4.7 | 4.0 | -3.3 | 4 | J |
| 5 | 353 | 5.4 | 98 | J | 8.1 | -1 | 142 | -6.1 | 4.5 | -1.8 | 2 | J |
| 6 | 362 | 5.5 | 119 | J | 8.1 | 18 | 156 | -6.1 | 3.3 | 0.9 | 4 | J |
| 7 | 397 | 3.9 | 97 | C | 8.7 | 25 | 155 | -7.1 | 4.6 | 1.9 | 1 | J |
| 8 | 419 | 3.4 | 91 | J | 9.0 | 16 | 150 | -7.3 | 4.9 | 0.1 | 1 | J |
| 9 | 411 | 3.4 | 73 | J | 8.7 | 8 | 148 | -7.1 | 4.5 | -1.2 | 2 | J |
| 10 | 401 | 3.3 | 91 | C | 8.4 | 4 | 155 | -7.4 | 3.3 | -1.3 | 1 | J |
| 11 | 396 | 3.5 | 81 | C | 8.2 | 9 | 173 | -8.0 | 1.5 | 0.6 | 1 | J |
| 12 | 398 | 4.4 | 96 | J | 8.1 | 4 | 168 | -7.8 | 1.7 | -0.4 | 1 | J |
| 13 | 402 | 3.6 | 76 | J | 7.3 | -3 | 160 | -6.8 | 2.0 | -1.5 | 1 | J |
| 14 | 404 | 3.3 | 71 | J | 8.2 | 2 | 152 | -7.1 | 3.5 | -1.5 | 1 | J |
| 15 | 390 | 2.9 | 71 | C | 8.4 | -7 | 151 | -6.9 | 3.1 | -2.5 | 2 | J |
| 16 | 383 | 3.3 | 76 | C | 8.9 | -12 | 151 | -7.6 | 3.2 | -3.3 | 0 | C |
| 17 | 381 | 4.3 | 59 | C | 8.3 | -40 | 147 | -4.8 | 1.4 | -5.6 | 3 | C |
| 18 | 347 | 5.1 | 38 | C | 8.1 | -45 | 149 | -4.7 | 1.2 | -6.0 | 2 | C |
| 19 | 345 | 5.5 | 57 | C | 8.4 | -40 | 159 | -5.8 | 1.0 | -5.6 | 2 | J |
| 20 | 346 | 5.8 | 43 | C | 8.0 | -18 | 134 | -5.1 | 4.7 | -3.4 | 2 | C |
| 21 | 343 | 5.4 | 29 | J | 8.0 | -6 | 137 | -5.4 | 4.8 | -1.6 | 3 | J |
| 22 | 337 | 5.4 | 20 | J | 8.4 | 4 | 138 | -6.1 | 5.5 | -0.2 | 1 | J |
| 23 | 337 | 6.7 | 32 | C | 8.0 | 14 | 134 | -5.4 | 5.8 | 1.2 | 1 | J |
| 24 | 336 | 6.1 | 21 | J | 7.9 | 4 | 147 | -6.4 | 4.2 | -0.0 | 2 | J |

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OF POOR QUALITY

10/30/79– 11/06/79

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | OCT. 30, 1979 | | | | | 303 | | | | | | | OCT. 31, 1979 | | | | | 304 |
| 1 | 335 | 6.0 | 21 | J | 8.1 | -9 | 158 | -7.1 | 2.6 | -1.6 | 2 | J | 370 | 5.3 | 79 | C | | | | | | | | |
| 2 | 347 | 6.0 | 38 | J | 7.5 | -36 | 178 | -5.7 | -0.6 | -4.1 | 2 | J | | | | | | | | | | | | |
| 3 | 365 | 5.0 | 51 | J | 7.4 | 2 | 141 | -5.5 | 4.4 | -0.8 | 2 | J | | | | | | | | | | | | |
| 4 | 371 | 4.6 | 39 | J | 7.0 | 18 | 131 | -4.2 | 5.3 | 0.6 | 2 | J | | | | | | | | | | | | |
| 5 | 379 | 4.5 | 39 | J | 6.8 | 8 | 138 | -4.7 | 4.3 | -0.6 | 2 | J | | | | | | | | | | | | |
| 6 | 378 | 4.6 | 55 | J | 6.6 | 30 | 138 | -4.0 | 4.5 | 1.5 | 2 | J | 393 | 4.9 | 0 | C | 3.7 | 22 | 186 | -3.4 | 0.2 | 1.4 | 0 | C |
| 7 | 371 | 4.5 | 37 | J | 6.4 | 11 | 140 | -4.7 | 4.0 | -0.6 | 2 | J | 379 | 5.1 | 84 | C | 4.2 | 5 | 220 | -2.4 | -1.7 | 1.1 | 2 | C |
| 8 | 385 | 4.2 | 45 | J | 6.4 | 22 | 127 | -3.4 | 5.1 | -0.1 | 2 | J | 373 | 5.4 | 76 | C | 4.4 | 6 | 248 | -1.1 | -2.3 | 1.6 | 3 | C |
| 9 | 407 | 4.5 | 53 | J | 6.4 | 7 | 109 | -1.6 | 4.5 | -1.8 | 4 | J | 382 | 4.9 | 69 | C | 5.5 | 4 | 254 | -1.0 | -3.0 | 2.0 | 4 | C |
| 10 | 385 | 4.0 | 41 | C | 6.4 | 17 | 121 | -3.0 | 5.2 | -1.0 | 2 | J | 371 | 5.4 | 67 | C | 5.6 | -15 | 154 | -4.5 | 1.3 | -2.3 | 2 | C |
| 11 | 392 | 3.8 | 26 | J | 6.4 | 17 | 137 | -4.4 | 4.5 | -0.5 | 1 | J | 375 | 5.3 | 65 | C | 5.0 | -15 | 158 | -3.8 | 0.8 | -1.7 | 3 | J |
| 12 | 381 | 4.2 | 29 | J | 6.4 | 16 | 137 | -4.4 | 4.4 | -0.6 | 1 | J | 374 | 4.9 | 47 | J | 5.4 | -1 | 146 | -4.4 | 2.5 | -1.6 | 1 | J |
| 13 | 376 | 3.7 | 25 | J | 6.7 | 13 | 137 | -4.7 | 4.6 | -0.8 | 1 | J | 371 | 4.9 | 43 | J | 5.3 | 1 | 147 | -4.4 | 2.5 | -1.3 | 1 | J |
| 14 | 376 | 4.0 | 26 | J | 6.7 | 13 | 127 | -3.9 | 5.3 | -1.0 | 1 | J | 370 | 6.4 | 65 | C | 5.8 | 0 | 127 | -3.5 | 4.1 | -2.1 | 0 | J |
| 15 | 369 | 3.9 | 22 | J | 6.7 | 15 | 130 | -4.1 | 5.2 | -0.5 | 1 | J | 391 | 6.5 | 72 | J | 6.0 | -19 | 110 | -1.9 | 3.9 | -3.8 | 1 | J |
| 16 | 362 | 4.4 | 35 | C | 6.8 | 22 | 131 | -4.2 | 5.3 | 0.6 | 1 | C | 373 | 6.2 | 62 | J | 6.2 | -23 | 114 | -2.2 | 3.8 | -4.0 | 2 | J |
| 17 | 358 | 4.5 | 34 | C | 6.8 | 32 | 131 | -3.8 | 5.2 | 2.0 | 1 | C | 376 | 6.7 | 54 | J | 6.1 | -40 | 118 | -2.1 | 2.6 | -4.9 | 2 | J |
| 18 | 369 | 4.5 | 44 | C | 6.4 | 42 | 132 | -3.2 | 4.5 | 3.1 | 0 | C | 364 | 6.8 | 76 | C | 6.3 | -16 | 100 | -1.0 | 4.8 | -3.0 | 3 | J |
| 19 | 369 | 4.2 | 49 | C | 6.4 | 39 | 135 | -3.5 | 4.3 | 3.1 | 1 | C | 359 | 6.1 | 57 | C | 6.6 | 18 | 100 | -0.9 | 5.7 | 0.5 | 3 | C |
| 20 | 392 | 3.6 | 0 | C | 6.2 | 25 | 141 | -4.3 | 4.0 | 1.9 | 1 | C | 362 | 5.4 | 41 | C | 7.6 | 11 | 107 | -2.1 | 6.9 | 0.1 | 2 | C |
| 21 | 372 | 4.2 | 46 | C | 6.2 | 41 | 144 | -3.7 | 3.3 | 3.5 | 1 | C | 396 | 6.8 | 57 | J | 6.2 | 30 | 53 | 3.1 | 4.6 | 2.3 | 1 | J |
| 22 | 374 | 4.5 | 48 | C | 6.1 | 24 | 138 | -4.1 | 3.9 | 1.9 | 1 | C | 383 | 6.2 | 41 | J | 6.8 | 38 | 92 | -0.2 | 5.2 | 3.1 | 3 | J |
| 23 | 380 | 4.6 | 61 | C | 5.5 | 27 | 131 | -3.2 | 3.9 | 2.0 | 1 | J | 374 | 4.2 | 23 | J | 8.3 | -19 | 115 | -3.3 | 6.7 | -3.5 | 1 | J |
| 24 | 379 | 4.7 | 62 | C | 5.2 | 8 | 135 | -3.4 | 3.4 | 0.2 | 2 | J | 356 | 5.3 | 54 | C | 7.2 | -15 | 124 | -3.6 | 5.1 | -2.4 | 3 | J |
| | | | | | | | NOV. 1, 1979 | | | | | 305 | | | | | | | NOV. 2, 1979 | | | | | 306 |
| 1 | 363 | 4.5 | 44 | J | 7.1 | -13 | 129 | -4.0 | 4.7 | -2.2 | 2 | J | 490 | 4.1 | 165 | J | 5.3 | -33 | 140 | -2.8 | 2.0 | -2.6 | 3 | J |
| 2 | 361 | 4.6 | 51 | J | 7.4 | -40 | 143 | -4.3 | 2.4 | -5.1 | 2 | J | 471 | 3.7 | 121 | C | 5.1 | -57 | 164 | -2.2 | 0.0 | -3.6 | 3 | J |
| 3 | 364 | 4.8 | 48 | J | 7.4 | -47 | 156 | -4.5 | 0.8 | -5.6 | 2 | J | 452 | 3.3 | 49 | J | 6.0 | -18 | 169 | -5.4 | 0.6 | -2.0 | 2 | J |
| 4 | 371 | 5.4 | 30 | J | 8.0 | -14 | 124 | -4.3 | 5.6 | -3.6 | 1 | J | 463 | 3.7 | 86 | J | 6.6 | -22 | 134 | -4.2 | 3.5 | -3.5 | 1 | J |
| 5 | 343 | 7.3 | 34 | C | 8.6 | -4 | 133 | -5.7 | 5.6 | -2.6 | 2 | C | 461 | 3.7 | 78 | J | 6.2 | -14 | 134 | -3.6 | 3.1 | -2.5 | 3 | J |
| 6 | 359 | 7.9 | 36 | C | 8.9 | 15 | 125 | -4.9 | 7.4 | -0.5 | 1 | J | 435 | 3.9 | 103 | C | 6.4 | -11 | 160 | -5.4 | 1.4 | -1.8 | 2 | C |
| 7 | 366 | 10.9 | 31 | C | 8.4 | 32 | 133 | -4.7 | 6.5 | 1.8 | 2 | J | 444 | 4.1 | 103 | J | 6.1 | -8 | 145 | -4.5 | 2.6 | -2.1 | 2 | J |
| 8 | 368 | 16.1 | 14 | J | 8.6 | 38 | 138 | -5.0 | 6.4 | 2.6 | 1 | J | 435 | 4.1 | 93 | C | 6.6 | 5 | 154 | -5.6 | 2.7 | -0.8 | 2 | C |
| 9 | 362 | 16.5 | 16 | C | 8.8 | 60 | 166 | -4.2 | 4.6 | 6.0 | 2 | J | 427 | 3.7 | 88 | C | 6.6 | -11 | 147 | -5.2 | 2.4 | -2.8 | 2 | C |
| 10 | 361 | 20.2 | 19 | C | 10.5 | 41 | 137 | -5.3 | 7.4 | 2.9 | 4 | J | 424 | 3.4 | 83 | C | 6.6 | -9 | 138 | -4.8 | 3.2 | -3.0 | 1 | J |
| 11 | 380 | 15.7 | 26 | J | 10.0 | 22 | 118 | -4.0 | 8.3 | -0.9 | 4 | J | 482 | 4.3 | 100 | J | 5.9 | 4 | 80 | 0.5 | 2.7 | -1.3 | 5 | J |
| 12 | 412 | 12.9 | 117 | C | 12.3 | 40 | 151 | -8.0 | 7.6 | 4.4 | 3 | J | 410 | 4.0 | 43 | J | 7.2 | -16 | 142 | -5.0 | 2.5 | -3.5 | 3 | J |
| 13 | 486 | 7.2 | 321 | J | 9.3 | 43 | 155 | -5.0 | 4.5 | 3.4 | 5 | J | 410 | 4.0 | 48 | J | 7.1 | -11 | 92 | -0.2 | 4.7 | -3.9 | 4 | J |
| 14 | 466 | 6.5 | 222 | C | 9.3 | 35 | 128 | -4.2 | 7.0 | 1.9 | 4 | J | 419 | 3.9 | 66 | J | 7.3 | -12 | 93 | -0.4 | 5.5 | -4.3 | 2 | J |
| 15 | 480 | 6.9 | 247 | C | 9.3 | 7 | 101 | -1.6 | 8.1 | -2.4 | 4 | J | 412 | 4.2 | 58 | J | 7.2 | -28 | 132 | -3.9 | 2.7 | -4.6 | 3 | J |
| 16 | 519 | 8.2 | 299 | J | 8.2 | -27 | 121 | -3.1 | 3.7 | -4.8 | 4 | J | 408 | 4.3 | 54 | J | 7.2 | -16 | 127 | -3.9 | 4.2 | -3.6 | 3 | J |
| 17 | 481 | 5.9 | 179 | C | 7.6 | -2 | 130 | -3.1 | 3.4 | -1.3 | 6 | J | 391 | 5.0 | 82 | C | 6.2 | -24 | 134 | -3.8 | 3.0 | -3.5 | 1 | J |
| 18 | 515 | 4.3 | 158 | C | 6.9 | -44 | 88 | 0.1 | 3.0 | -5.0 | 4 | J | 375 | 5.7 | 93 | C | 5.8 | -17 | 136 | -3.9 | 3.2 | -2.6 | 1 | J |
| 19 | 497 | 4.1 | 99 | J | 5.4 | 10 | 163 | -4.9 | 1.7 | 0.6 | 2 | J | 371 | 4.2 | 52 | J | 4.8 | 3 | 178 | -4.5 | 0.2 | 0.2 | 2 | J |
| 20 | 494 | 4.3 | 162 | J | 5.6 | 7 | 153 | -4.3 | 2.3 | 0.2 | 3 | J | 371 | 4.5 | 67 | J | 5.1 | 6 | 172 | -4.8 | 0.8 | 0.4 | 1 | J |
| 21 | 515 | 4.7 | 147 | J | 5.4 | -53 | 160 | -2.5 | 0.4 | -3.7 | 3 | J | 366 | 4.0 | 54 | J | 5.9 | 5 | 166 | -5.5 | 1.4 | 0.3 | 1 | J |
| 22 | 513 | 4.2 | 98 | J | 5.5 | -26 | 107 | -1.3 | 3.9 | -2.7 | 2 | J | 376 | 3.9 | 47 | J | 6.1 | 10 | 202 | -5.3 | -2.0 | 1.3 | 2 | J |
| 23 | 486 | 4.5 | 120 | J | 5.0 | -34 | 134 | -2.5 | 2.3 | -2.7 | 3 | J | 382 | 4.2 | 54 | J | 6.8 | 21 | 161 | -5.8 | 2.3 | 2.1 | 2 | J |
| 24 | 491 | 4.5 | 180 | J | 4.4 | -28 | 165 | -3.0 | 0.6 | -1.7 | 3 | J | 386 | 5.1 | 81 | C | 6.0 | 12 | 184 | -5.7 | -0.3 | 1.3 | 1 | C |
| | | | | | | | NOV. 3, 1979 | | | | | 307 | | | | | | | NOV. 4, 1979 | | | | | 308 |
| 1 | 384 | 4.0 | 68 | J | 7.0 | -14 | 158 | -5.6 | 2.0 | -1.8 | 3 | J | 368 | 6.3 | 68 | J | 7.2 | -51 | 150 | -3.9 | 1.5 | -5.8 | 1 | J |
| 2 | 370 | 3.2 | 42 | J | 6.7 | 4 | 161 | -6.0 | 2.1 | 0.1 | 2 | J | 381 | 6.3 | 75 | J | 6.9 | -52 | 120 | -1.9 | 2.5 | -5.5 | 3 | J |
| 3 | 377 | 3.6 | 46 | J | 6.7 | 0 | 154 | -5.9 | 2.8 | -0.6 | 1 | J | 377 | 6.2 | 67 | J | 6.9 | -20 | 116 | -2.6 | 4.8 | -3.3 | 3 | J |
| 4 | 372 | 3.3 | 37 | J | 6.8 | -4 | 145 | -5.5 | 3.6 | -1.5 | 1 | J | 385 | 10.7 | 76 | J | 4.0 | 22 | 249 | -0.6 | -1.4 | 1.1 | 4 | J |
| 5 | 373 | 4.1 | 37 | J | 6.0 | 0 | 173 | -5.9 | 0.7 | -0.2 | 1 | J | 386 | 12.5 | 77 | J | 3.2 | 28 | 266 | -0.2 | -1.9 | 2.0 | 2 | J |
| 6 | 362 | 5.3 | 60 | C | 6.1 | 1 | 180 | -6.1 | 0.0 | 0.1 | 1 | J | 383 | 8.1 | 78 | C | 5.8 | -42 | 290 | 1.2 | -4.4 | -1.8 | 3 | C |
| 7 | 355 | 4.7 | 49 | C | 6.7 | 6 | 168 | -6.5 | 1.6 | 0.1 | 1 | C | 387 | 13.1 | 55 | J | 3.0 | -42 | 289 | 0.6 | -2.2 | -0.8 | 2 | J |
| 8 | 368 | 4.3 | 64 | J | 5.4 | -3 | 160 | -4.7 | 1.4 | -1.0 | 2 | J | 381 | 15.1 | 51 | J | 2.7 | -7 | 324 | 2.1 | -1.5 | 0.4 | 1 | J |
| 9 | 370 | 4.6 | 56 | J | 5.5 | 9 | 188 | -5.0 | -0.2 | 1.0 | 2 | J | 373 | 14.9 | 74 | J | 3.1 | 5 | 354 | 3.0 | -0.1 | 0.4 | 1 | J |
| 10 | 368 | 5.6 | 92 | C | 5.9 | -4 | 238 | -2.9 | -4.3 | 2.0 | 1 | C | 372 | 7.5 | 71 | C | 4.2 | -1 | 76 | 0.7 | 2.3 | -1.4 | 3 | C |
| 11 | 379 | 5.3 | 67 | C | 6.6 | -42 | 195 | -2.3 | -1.6 | -1.6 | 5 | C | 383 | 8.8 | 70 | J | 4.7 | -36 | 97 | -0.4 | 1.7 | -3.9 | 2 | J |
| 12 | 384 | 5.4 | 87 | C | 5.9 | -48 | 138 | -2.5 | 0.2 | -4.3 | 3 | C | 373 | 12.5 | 25 | J | 3.9 | -40 | 6 | 3.0 | -0.9 | -2.3 | 0 | J |
| 13 | 379 | 5.6 | 87 | C | 5.8 | -16 | 184 | -3.6 | -0.7 | -0.8 | 4 | C | 372 | 12.2 | 26 | J | 3.5 | -44 | 5 | 2.4 | -0.9 | -2.2 | 0 | J |
| 14 | 389 | 5.4 | 33 | J | 7.4 | 10 | 252 | -2.1 | -5.4 | 4.0 | 2 | J | 371 | 10.7 | 31 | J | 3.8 | -52 | 2 | 2.3 | -1.2 | -2.7 | 1 | J |
| 15 | 390 | 5.3 | 44 | J | 6.5 | 9 | 250 | -2.0 | -4.6 | 3.0 | 3 | J | 370 | 10.2 | 39 | J | 2.9 | -45 | 21 | 1.8 | -0.1 | -2.1 | 1 | J |
| 16 | 391 | 5.9 | 76 | J | 6.5 | -36 | 127 | -3.0 | 2.5 | -4.8 | 2 | J | 367 | 8.2 | 53 | C | 3.8 | -42 | 36 | 2.2 | 0.7 | -2.9 | 1 | C |
| 17 | 371 | 6.2 | 75 | C | 7.0 | -41 | 153 | -4.5 | 0.9 | -4.9 | 2 | C | 369 | 7.9 | 49 | C | 4.2 | -27 | 33 | 3.1 | 1.4 | -2.4 | 1 | C |
| 18 | 397 | 5.7 | 86 | J | 6.3 | 10 | 125 | -2.8 | 4.1 | -0.2 | 4 | J | 366 | 7.4 | 44 | C | 4.4 | -13 | 34 | 3.5 | 2.1 | -1.5 | 1 | C |
| 19 | 402 | 5.6 | 69 | J | 7.2 | -15 | 110 | -2.3 | 5.8 | -3.1 | 1 | J | 361 | 9.3 | 33 | C | 3.0 | -33 | 18 | 2.2 | 0.4 | -1.6 | 1 | C |
| 20 | 399 | 5.9 | 59 | J | 7.4 | -21 | 107 | -1.9 | 5.7 | -3.5 | 3 | J | 365 | 9.3 | 38 | C | 3.1 | -12 | 71 | 0.9 | 2.5 | -1.0 | 1 | C |
| 21 | 401 | 6.3 | 62 | J | 7.3 | -34 | 101 | -1.1 | 5.0 | -4.5 | 3 | J | 366 | 9.1 | 39 | C | 3.9 | -4 | 75 | 0.7 | 2.7 | -0.6 | 3 | C |
| 22 | 360 | 6.6 | 81 | J | 6.9 | 17 | 166 | -5.6 | 1.6 | 1.6 | 3 | J | 369 | 10.7 | 29 | C | 2.4 | 50 | 173 | -1.5 | 0.4 | 1.8 | 1 | J |
| 23 | 356 | 6.2 | 71 | J | 6.7 | -1 | 159 | -5.5 | 2.1 | -0.3 | 3 | J | 356 | 10.8 | 27 | J | 2.7 | -11 | 143 | -2.1 | 1.5 | -0.7 | 0 | J |
| 24 | 361 | 6.2 | 73 | J | 7.1 | 16 | 141 | -5.0 | 4.2 | 1.4 | 2 | J | 362 | 10.4 | 22 | J | 3.1 | 0 | 158 | -2.8 | 1.1 | -0.1 | 1 | J |
| | | | | | | | NOV. 5, 1979 | | | | | 309 | | | | | | | NOV. 6, 1979 | | | | | 310 |
| 1 | 356 | 8.9 | 16 | J | 3.7 | 9 | 165 | -3.5 | 1.0 | 0.5 | 0 | J | 296 | 12.8 | 18 | C | 2.7 | 8 | 202 | -2.3 | -0.9 | 0.5 | 1 | C |
| 2 | 355 | 9.4 | 18 | J | 3.7 | 7 | 163 | -3.5 | 1.1 | 0.3 | 1 | J | 291 | 11.7 | 18 | C | 3.3 | -6 | 241 | -1.4 | -2.5 | 0.1 | 1 | C |
| 3 | 349 | 11.0 | 15 | C | 3.9 | 11 | 161 | -3.6 | 1.4 | 0.5 | 1 | C | 291 | 8.6 | 17 | C | 4.9 | -11 | 235 | -2.7 | -4.0 | -0.1 | 1 | C |
| 4 | 359 | 7.4 | 12 | C | 5.6 | 23 | 159 | -4.8 | 2.3 | 1.6 | 1 | C | 291 | 8.3 | 16 | C | 5.4 | 11 | 231 | -3.3 | -3.7 | 2.0 | 1 | C |
| 5 | 350 | 8.7 | 19 | J | 4.3 | 14 | 165 | -3.9 | 1.3 | 0.6 | 1 | J | 293 | 12.9 | 18 | C | 3.8 | 1 | 230 | -2.4 | -2.7 | 0.9 | 1 | C |
| 6 | 352 | 8.6 | 18 | J | 4.3 | 15 | 169 | -4.0 | 1.1 | 0.7 | 1 | J | 297 | 14.5 | 17 | C | 3.2 | 21 | 179 | -1.1 | 0.2 | 0.4 | 3 | C |
| 7 | 347 | 5.6 | 21 | J | 5.3 | 18 | 179 | -4.8 | 0.7 | 1.4 | 2 | J | 294 | 13.3 | 17 | C | 4.3 | -10 | 258 | -0.8 | -3.9 | 0.9 | 1 | C |
| 8 | 352 | 6.1 | 19 | J | 5.8 | 19 | 189 | -5.0 | 0.1 | 1.9 | 1 | J | 286 | 15.2 | 14 | C | 3.6 | -23 | 256 | -0.5 | -2.1 | 0.1 | 3 | C |
| 9 | 356 | 10.6 | 20 | J | 5.4 | 7 | 209 | -4.4 | -1.9 | 1.7 | 1 | J | 282 | 15.6 | 10 | C | 3.9 | -13 | 97 | -0.5 | 2.9 | -2.6 | 1 | C |
| 10 | 341 | 12.2 | 19 | J | 3.9 | 11 | 205 | -3.0 | -0.9 | 1.3 | 2 | J | 287 | 19.0 | 9 | C | 3.2 | 19 | 78 | 0.6 | 2.9 | -0.5 | 1 | C |
| 11 | 304 | 8.0 | 29 | J | 4.9 | 30 | 133 | -2.7 | 3.7 | 0.6 | 1 | C | 287 | 23.2 | 8 | C | 1.5 | -14 | 80 | 0.1 | 0.6 | -0.6 | 1 | C |
| 12 | 310 | 9.4 | 16 | C | 5.2 | 14 | 96 | -0.5 | 4.9 | -1.3 | 0 | C | 286 | 17.7 | 9 | C | 2.9 | -18 | 261 | -0.4 | -2.5 | 0.5 | 1 | C |
| 13 | 309 | 9.4 | 15 | C | 4.9 | 21 | 110 | -1.5 | 4.5 | -0.4 | 1 | C | 288 | 16.4 | 8 | C | 3.5 | -4 | 269 | -0.1 | -3.1 | 1.4 | 1 | C |
| 14 | 305 | 12.2 | 10 | C | 4.3 | 15 | 117 | -1.9 | 3.8 | -0.6 | 1 | C | 289 | 15.2 | 8 | C | 3.3 | -8 | 245 | -1.3 | -2.8 | 0.8 | 1 | C |
| 15 | 304 | 13.8 | 10 | C | 4.1 | 9 | 107 | -1.2 | 3.8 | -0.9 | 1 | C | 287 | 15.3 | 8 | C | 3.0 | 6 | 258 | -0.6 | -2.5 | 1.4 | 1 | C |
| 16 | 304 | 15.0 | 10 | C | 4.2 | 9 | 100 | -0.7 | 4.1 | -0.8 | 1 | C | 280 | 14.2 | 8 | C | 3.2 | 17 | 281 | 0.6 | -2.5 | 1.9 | 0 | C |
| 17 | 297 | 15.1 | 12 | C | 4.5 | 16 | 116 | -1.9 | 4.0 | 0.1 | 0 | C | 277 | 14.4 | 7 | C | 3.6 | 21 | 288 | 1.0 | -2.7 | 2.1 | 0 | C |
| 18 | 295 | 16.3 | 12 | C | 4.0 | 8 | 113 | -1.6 | 3.6 | -0.3 | 0 | C | 274 | 13.9 | 8 | C | 3.3 | 29 | 290 | 0.9 | -2.2 | 2.1 | 1 | C |
| 19 | 298 | 15.6 | 13 | C | 4.3 | 5 | 106 | -1.1 | 3.9 | -0.5 | 1 | C | 271 | 13.7 | 8 | C | 3.4 | 26 | 303 | 1.6 | -2.2 | 1.9 | 0 | C |
| 20 | 295 | 15.3 | 10 | C | 3.9 | 12 | 98 | -0.5 | 3.8 | 0.2 | 0 | C | 269 | 13.7 | 9 | C | 3.6 | 25 | 306 | 1.9 | -2.3 | 1.9 | 0 | C |
| 21 | 287 | 16.4 | 10 | C | 3.0 | 5 | 110 | -0.3 | 2.0 | -0.1 | 2 | C | 268 | 13.9 | 8 | C | 3.9 | 36 | 305 | 1.8 | -2.3 | 2.6 | 0 | C |
| 22 | 287 | 12.2 | 17 | C | 3.5 | -7 | 278 | 0.4 | -3.3 | -0.0 | 1 | C | 273 | 13.4 | 11 | C | 4.5 | 32 | 313 | 2.4 | -2.3 | 2.4 | 2 | C |
| 23 | 288 | 12.0 | 17 | C | 3.6 | 7 | 270 | 0.0 | -3.4 | 0.8 | 1 | C | 271 | 16.3 | 9 | C | 4.2 | 32 | 302 | 1.9 | -2.7 | 2.5 | 0 | C |
| 24 | 294 | 11.4 | 18 | C | 3.4 | 5 | 252 | -1.0 | -3.0 | 0.6 | 1 | C | 269 | 17.5 | 8 | C | 4.2 | 28 | 317 | 2.6 | -2.2 | 2.2 | 1 | C |

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OF POOR QUALITY

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NOV. 7, 1979 | | | | | | | | | | | 311 | NOV. 8, 1979 | | | | | | | | | | | 312 |
| 1 | 266 | 13.7 | 12 | C | 4.7 | 27 | 333 | 3.7 | -1.6 | 2.3 | 1 | C | 278 | 14.0 | 15 | C | 12.9 | -10 | 127 | -7.6 | 9.9 | -3.3 | 1 | C |
| 2 | 291 | 13.8 | 9 | C | | | | | | | | | 275 | 11.8 | 13 | C | 12.8 | -13 | 132 | -8.4 | 8.6 | -4.2 | 1 | C |
| 3 | | | | | | | | | | | | | 286 | 11.8 | 30 | C | 11.9 | -5 | 126 | -6.1 | 8.2 | -2.6 | 5 | C |
| 4 | | | | | | | | | | | | | 288 | 11.0 | 40 | C | 11.0 | -20 | 125 | -5.8 | 7.1 | -5.6 | 2 | C |
| 5 | | | | | | | | | | | | | 279 | 12.4 | 45 | C | 10.9 | -7 | 107 | -2.9 | 8.5 | -3.9 | 4 | C |
| 6 | | | | | | | | | | | | | 288 | 14.3 | 48 | C | 10.3 | 0 | 116 | -4.1 | 7.7 | -2.9 | 4 | C |
| 7 | 283 | 12.9 | 11 | C | 5.9 | -46 | 149 | -3.5 | 0.2 | -4.7 | 1 | C | 297 | 11.9 | 37 | C | 10.9 | -15 | 121 | -5.0 | 6.6 | -5.6 | 4 | C |
| 8 | 288 | 16.5 | 14 | C | 7.8 | -36 | 149 | -5.4 | 0.8 | -5.5 | 1 | C | 311 | 15.2 | 40 | C | 13.2 | -44 | 134 | -6.3 | 2.0 | -10.7 | 4 | C |
| 9 | 285 | 17.8 | 15 | C | 8.1 | -43 | 156 | -5.3 | -0.4 | -5.9 | 2 | C | 326 | 14.3 | 45 | C | 14.9 | -26 | 102 | -2.6 | 8.0 | -10.9 | 6 | C |
| 10 | 288 | 19.3 | 14 | C | 8.5 | -38 | 138 | -5.0 | 1.4 | -6.7 | 1 | C | 340 | 15.6 | 71 | C | | | | | | | | |
| 11 | 285 | 16.3 | 19 | C | 8.2 | -40 | 140 | -4.7 | 0.9 | -6.4 | 1 | C | 325 | 16.3 | 73 | C | 13.0 | -57 | 228 | -4.5 | -9.4 | -6.7 | 3 | C |
| 12 | 294 | 21.9 | 19 | C | 7.4 | 82 | 106 | -0.3 | 3.7 | 5.1 | 4 | C | 324 | 17.0 | 84 | C | 12.8 | -47 | 137 | -5.6 | 0.7 | -9.9 | 5 | C |
| 13 | 278 | 16.2 | 20 | C | 7.0 | -21 | 115 | -2.6 | 4.0 | -4.8 | 1 | C | 325 | 12.0 | 67 | C | 14.9 | 31 | 99 | -1.9 | 14.6 | 1.2 | 1 | C |
| 14 | 269 | 13.5 | 22 | C | 7.2 | -16 | 125 | -3.8 | 4.1 | -4.0 | 2 | C | 312 | 11.0 | 67 | C | 14.2 | 28 | 113 | -4.8 | 13.0 | 1.2 | 2 | C |
| 15 | 300 | 15.0 | 27 | C | 13.4 | 6 | 121 | -6.7 | 10.9 | -3.0 | 2 | C | 317 | 10.7 | 71 | C | 13.6 | 33 | 115 | -4.8 | 12.2 | 2.9 | 2 | C |
| 16 | 307 | 13.4 | 25 | C | 14.3 | -12 | 124 | -7.4 | 9.3 | -6.2 | 5 | C | 320 | 10.3 | 79 | C | 13.7 | 33 | 106 | -3.1 | 12.7 | 3.4 | 2 | C |
| 17 | 318 | 13.8 | 24 | C | 14.3 | -54 | 118 | -3.8 | 3.6 | -12.7 | 3 | C | 333 | 12.5 | 73 | C | 14.0 | 43 | 105 | -2.5 | 12.0 | 6.1 | 2 | C |
| 18 | 307 | 14.3 | 19 | C | 13.5 | -44 | 119 | -4.7 | 6.0 | -11.2 | 0 | C | 342 | 12.6 | 71 | C | 13.2 | 78 | 104 | -0.6 | 4.5 | 9.6 | 7 | C |
| 19 | 296 | 13.9 | 16 | C | 13.4 | -28 | 122 | -6.1 | 8.4 | -8.0 | 3 | C | 357 | 11.6 | 58 | C | 13.8 | 85 | 324 | 0.8 | 1.6 | 11.7 | 6 | C |
| 20 | 291 | 12.4 | 14 | C | 12.9 | -16 | 125 | -7.1 | 9.5 | -5.0 | 0 | C | 358 | 11.7 | 66 | C | 15.5 | 61 | 97 | -0.9 | 9.0 | 11.8 | 3 | C |
| 21 | 286 | 11.5 | 15 | C | 12.8 | -13 | 126 | -7.3 | 9.7 | -4.0 | 1 | C | 373 | 11.3 | 75 | C | 15.1 | 45 | 90 | -0.1 | 11.6 | 9.2 | 2 | C |
| 22 | 272 | 10.3 | 18 | C | 12.9 | -4 | 139 | -9.5 | 8.3 | -1.6 | 2 | C | 360 | 9.5 | 66 | C | 16.4 | 50 | 93 | -0.5 | 11.2 | 11.3 | 4 | C |
| 23 | 279 | 12.5 | 16 | C | 13.5 | -9 | 135 | -9.4 | 9.0 | -2.9 | 2 | C | 355 | 9.3 | 73 | C | 16.8 | 75 | 255 | -1.1 | -2.7 | 15.7 | 5 | C |
| 24 | 277 | 14.7 | 14 | C | 13.4 | -17 | 125 | -7.3 | 10.1 | -4.8 | 0 | C | 334 | 11.4 | 134 | C | 11.4 | 5 | 129 | -6.6 | 8.1 | 0.1 | 4 | C |
| | NOV. 9, 1979 | | | | | | | | | | | 313 | NOV. 10, 1979 | | | | | | | | | | | 314 |
| 1 | 350 | 11.0 | 117 | C | 11.3 | -24 | 113 | -3.6 | 8.2 | -5.1 | 3 | C | 421 | 6.8 | 50 | J | 8.9 | 0 | 289 | 2.6 | -7.5 | 0.8 | 3 | J |
| 2 | 357 | 9.6 | 100 | C | 12.0 | 27 | 124 | -5.4 | 8.5 | 3.8 | 5 | C | 412 | 7.5 | 35 | J | 8.2 | -7 | 291 | 2.7 | -7.0 | 0.0 | 3 | J |
| 3 | 414 | 6.3 | 101 | C | 12.5 | 37 | 114 | -3.8 | 9.8 | 5.4 | 4 | C | 418 | 7.7 | 49 | C | 7.6 | -5 | 282 | 1.5 | -7.0 | 0.6 | 3 | J |
| 4 | 365 | 8.3 | 108 | C | 10.3 | 14 | 116 | -3.5 | 7.2 | 0.3 | 6 | C | 425 | 8.8 | 50 | J | 7.3 | -6 | 281 | 1.3 | -6.8 | 0.9 | 2 | J |
| 5 | 423 | 7.1 | 124 | C | 9.3 | 5 | 127 | -4.9 | 6.4 | -1.3 | 4 | C | 414 | 9.7 | 58 | J | 6.4 | -9 | 301 | 3.0 | -5.0 | 0.5 | 2 | J |
| 6 | 356 | 8.2 | 92 | C | 8.7 | -5 | 152 | -7.1 | 3.3 | -2.0 | 3 | C | 422 | 9.2 | 44 | J | 6.9 | 10 | 275 | 0.5 | -5.2 | 3.0 | 3 | J |
| 7 | 352 | 8.3 | 77 | C | 9.2 | -2 | 164 | -8.3 | 2.0 | -1.3 | 3 | C | 414 | 7.9 | 37 | J | 7.0 | -1 | 298 | 3.1 | -5.3 | 2.1 | 2 | J |
| 8 | 360 | 8.4 | 83 | C | 9.1 | 10 | 138 | -6.5 | 5.9 | -1.2 | 1 | C | 415 | 6.9 | 34 | J | 7.1 | -3 | 297 | 3.0 | -5.5 | 2.2 | 2 | J |
| 9 | 337 | 9.6 | 187 | A | | | | | | | | | 419 | 7.4 | 42 | J | 6.0 | -23 | 296 | 1.9 | -4.2 | 0.1 | 4 | J |
| 10 | 365 | 8.9 | 80 | C | 8.7 | 29 | 168 | -7.1 | 3.2 | 2.9 | 2 | C | 407 | 7.7 | 47 | J | 6.1 | 21 | 325 | 4.3 | -1.7 | 3.2 | 2 | J |
| 11 | 373 | 9.0 | 88 | C | 8.2 | 36 | 195 | -6.2 | 0.8 | 4.8 | 2 | C | 404 | 6.7 | 25 | J | 6.6 | 11 | 310 | 3.7 | -3.4 | 3.1 | 3 | J |
| 12 | 374 | 9.2 | 88 | C | 8.2 | 24 | 207 | -5.9 | -1.3 | 4.0 | 3 | C | 391 | 4.9 | 22 | J | 6.6 | 12 | 305 | 3.5 | -3.9 | 3.5 | 2 | J |
| 13 | 383 | 9.8 | 92 | C | 9.2 | -5 | 205 | -8.0 | -3.7 | 0.9 | 1 | C | 411 | 6.0 | 22 | J | 6.6 | 37 | 308 | 3.0 | -1.9 | 5.1 | 2 | J |
| 14 | 408 | 11.5 | 114 | C | 11.7 | -39 | 145 | -5.7 | 1.4 | -6.8 | 6 | C | 413 | 5.4 | 31 | J | 6.3 | 1 | 308 | 3.6 | -4.2 | 2.0 | 2 | J |
| 15 | 423 | 10.2 | 95 | C | 11.9 | -20 | 109 | -3.4 | 7.4 | -6.9 | 4 | C | 398 | 4.7 | 33 | J | 6.0 | 37 | 325 | 3.2 | -1.0 | 3.6 | 3 | J |
| 16 | 426 | 10.2 | 87 | C | 12.4 | -28 | 121 | -5.4 | 6.7 | -8.1 | 3 | C | 393 | 5.3 | 36 | C | 5.9 | -23 | 306 | 2.9 | -4.4 | -0.7 | 3 | J |
| 17 | 432 | 17.3 | 88 | C | 9.8 | -23 | 140 | -4.0 | 2.6 | -3.0 | 8 | C | 395 | 5.6 | 26 | J | 6.2 | 3 | 283 | 1.3 | -5.2 | 1.8 | 3 | J |
| 18 | 435 | 19.4 | 97 | C | 6.7 | 61 | 302 | 1.5 | -1.2 | 5.7 | 2 | C | 389 | 4.9 | 31 | C | 6.3 | -6 | 306 | 3.6 | -5.0 | 0.5 | 1 | J |
| 19 | 447 | 20.9 | 74 | C | 7.2 | 72 | 277 | 0.2 | -0.6 | 4.4 | 5 | C | 392 | 4.8 | 35 | J | 6.0 | -17 | 295 | 2.3 | -5.2 | -0.8 | 2 | J |
| 20 | 458 | 22.2 | 47 | C | 4.9 | -5 | 157 | -3.7 | 1.5 | -0.6 | 3 | C | 389 | 4.4 | 39 | J | 5.9 | -20 | 300 | 2.6 | -4.7 | -1.3 | 2 | J |
| 21 | 431 | 10.1 | 50 | C | 8.9 | -25 | 285 | 1.9 | -7.6 | -2.7 | 3 | C | 402 | 4.7 | 34 | J | 6.0 | -64 | 291 | 0.8 | -2.5 | -4.3 | 3 | J |
| 22 | 428 | 7.4 | 53 | C | 9.5 | -14 | 278 | 1.3 | -8.9 | -1.5 | 2 | C | 411 | 5.2 | 32 | J | 6.1 | -71 | 123 | -1.0 | 1.1 | -5.6 | 2 | J |
| 23 | 419 | 7.5 | 51 | C | 9.1 | -5 | 282 | 1.8 | -8.4 | -0.1 | 2 | C | 379 | 3.6 | 38 | C | 7.2 | -2 | 139 | -3.6 | 3.1 | -0.4 | 6 | J |
| 24 | 408 | 7.2 | 47 | C | 8.8 | 5 | 301 | 4.1 | -6.8 | 1.3 | 3 | J | 364 | 5.3 | 27 | C | 5.8 | -40 | 45 | 2.2 | 2.0 | -2.8 | 4 | J |
| | NOV. 11, 1979 | | | | | | | | | | | 315 | NOV. 12, 1979 | | | | | | | | | | | 316 |
| 1 | 353 | 6.9 | 26 | C | 4.7 | -39 | 21 | 2.7 | 0.8 | -2.4 | 3 | J | 408 | 11.5 | 47 | J | 14.6 | 19 | 295 | 5.8 | -12.0 | 5.8 | 1 | J |
| 2 | 352 | 8.0 | 27 | C | 4.6 | -39 | 11 | 3.4 | 0.3 | -2.8 | 1 | J | 396 | 10.4 | 46 | J | 13.8 | 26 | 302 | 6.4 | -9.4 | 7.1 | 3 | J |
| 3 | 377 | 12.5 | 101 | C | 7.6 | -24 | 48 | 3.7 | 3.6 | -3.1 | 5 | J | 391 | 10.6 | 52 | J | 12.2 | 36 | 320 | 7.4 | -4.9 | 7.9 | 3 | J |
| 4 | 410 | 18.7 | 200 | J | 11.3 | 14 | 40 | 6.2 | 5.6 | 0.8 | 8 | J | 383 | 8.9 | 41 | J | 11.6 | 28 | 310 | 6.2 | -6.1 | 6.7 | 4 | J |
| 5 | 450 | 10.7 | 185 | C | 13.4 | 12 | 61 | 5.7 | 10.6 | -0.5 | 6 | J | 403 | 6.9 | 38 | C | 12.1 | 43 | 350 | 8.6 | 0.8 | 8.3 | 2 | J |
| 6 | 469 | 11.5 | 172 | J | 13.3 | 36 | 46 | 6.7 | 8.9 | 4.3 | 6 | J | 429 | 7.3 | 62 | J | 14.8 | 46 | 65 | 4.3 | 12.2 | 6.9 | 2 | J |
| 7 | 481 | 11.1 | 199 | J | 13.0 | 40 | 44 | 6.7 | 9.0 | 4.7 | 5 | J | 458 | 7.5 | 51 | J | 15.5 | 35 | 75 | 3.1 | 14.1 | 3.4 | 5 | J |
| 8 | 499 | 9.9 | 153 | J | 14.2 | 46 | 8 | 9.1 | 5.2 | 8.1 | 5 | J | 574 | 2.7 | 148 | J | 16.6 | 17 | 93 | -0.8 | 15.8 | -2.2 | 5 | J |
| 9 | 482 | 10.3 | 304 | J | 14.2 | 37 | 9 | 10.7 | 5.2 | 6.5 | 4 | J | 455 | 2.2 | 90 | C | 16.9 | 12 | 100 | -2.9 | 16.0 | -4.1 | 2 | J |
| 10 | 452 | 11.2 | 107 | J | 14.7 | 31 | 12 | 11.5 | 5.4 | 5.1 | 5 | J | 457 | 2.9 | 41 | J | 17.3 | 26 | 97 | -1.9 | 17.2 | -0.4 | 1 | J |
| 11 | 496 | 11.5 | 232 | J | 15.2 | 46 | 332 | 8.8 | 0.7 | 11.4 | 5 | J | 459 | 2.8 | 47 | J | 16.9 | 28 | 89 | 0.3 | 16.6 | 0.1 | 3 | J |
| 12 | 482 | 10.9 | 139 | J | 15.0 | 43 | 326 | 8.4 | -0.7 | 11.0 | 6 | J | 455 | 3.8 | 39 | J | 16.6 | 31 | 86 | 1.0 | 16.0 | 1.2 | 4 | J |
| 13 | 476 | 14.7 | 277 | J | 15.5 | 32 | 329 | 10.4 | -2.3 | 9.5 | 6 | J | 464 | 4.3 | 50 | J | 15.1 | 26 | 72 | 4.1 | 14.3 | 0.4 | 2 | J |
| 14 | 465 | 10.0 | 132 | C | 16.4 | 51 | 354 | 10.0 | 4.2 | 11.9 | 3 | C | 472 | 4.4 | 43 | J | 15.0 | 23 | 82 | 1.9 | 14.6 | -0.1 | 3 | J |
| 15 | 460 | 13.6 | 97 | C | 17.5 | 13 | 308 | 9.4 | -10.0 | 7.9 | 7 | C | 452 | 4.2 | 36 | J | 14.3 | 17 | 88 | 0.5 | 14.2 | -1.0 | 2 | J |
| 16 | 462 | 12.0 | 101 | C | 17.7 | 48 | 63 | 4.8 | 12.5 | 8.1 | 7 | C | 432 | 4.8 | 42 | J | 13.5 | 13 | 79 | 2.5 | 13.1 | -1.1 | 2 | J |
| 17 | 475 | 14.4 | 105 | C | 20.2 | 51 | 76 | 2.9 | 15.6 | 11.3 | 5 | C | 430 | 4.8 | 33 | J | 13.9 | 8 | 78 | 2.8 | 13.4 | -1.6 | 1 | J |
| 18 | 499 | 19.8 | 94 | J | 21.0 | 52 | 65 | 5.5 | 14.9 | 13.4 | 3 | C | 414 | 3.8 | 29 | J | 14.7 | 16 | 80 | 2.4 | 14.4 | 1.0 | 1 | J |
| 19 | 456 | 15.8 | 80 | C | 20.9 | 61 | 51 | 6.3 | 10.7 | 16.4 | 4 | J | 434 | 4.7 | 30 | J | 15.2 | 18 | 77 | 3.2 | 14.4 | 2.3 | 3 | J |
| 20 | 445 | 13.5 | 106 | C | 21.5 | 65 | 341 | 8.6 | -0.5 | 19.4 | 3 | C | 459 | 5.6 | 37 | J | 15.6 | 18 | 63 | 6.4 | 13.0 | 3.0 | 5 | J |
| 21 | 427 | 11.3 | 96 | C | 20.9 | 55 | 311 | 7.7 | -7.0 | 17.6 | 4 | C | 453 | 8.2 | 31 | J | 15.7 | 24 | 39 | 10.9 | 9.4 | 5.4 | 2 | J |
| 22 | 419 | 10.3 | 74 | C | 20.9 | 36 | 304 | 8.8 | -12.3 | 12.6 | 7 | C | 448 | 5.3 | 25 | J | 15.5 | 24 | 36 | 11.5 | 8.7 | 5.7 | 1 | J |
| 23 | 412 | 11.5 | 65 | C | 17.3 | 45 | 325 | 9.7 | -6.0 | 12.3 | 4 | J | 439 | 4.3 | 19 | J | 15.3 | 22 | 34 | 11.8 | 8.3 | 5.2 | 0 | J |
| 24 | 403 | 10.9 | 71 | C | 17.1 | 24 | 310 | 9.9 | -11.2 | 7.8 | 3 | C | 447 | 5.1 | 43 | J | 14.7 | 5 | 56 | 5.8 | 8.6 | 0.3 | 10 | J |
| | NOV. 13, 1979 | | | | | | | | | | | 317 | NOV. 14, 1979 | | | | | | | | | | | 318 |
| 1 | 420 | 4.4 | 50 | J | 14.5 | -27 | 115 | -5.4 | 11.0 | -7.5 | 1 | J | 431 | 2.7 | 116 | C | 8.6 | -79 | 91 | -0.0 | 1.0 | -8.3 | 2 | J |
| 2 | 419 | 6.6 | 54 | J | 13.7 | -34 | 124 | -6.3 | 8.4 | -8.6 | 2 | J | 349 | 2.7 | 136 | C | | | | | | | | |
| 3 | 417 | 11.7 | 37 | J | 12.8 | -27 | 119 | -5.5 | 8.8 | -7.3 | 1 | J | | | | | | | | | | | | |
| 4 | 410 | 7.9 | 22 | C | 13.3 | -24 | 109 | -3.9 | 10.0 | -7.8 | 1 | C | | | | | | | | | | | | |
| 5 | 409 | 7.2 | 27 | C | 11.9 | -27 | 115 | -4.4 | 7.7 | -7.7 | 2 | J | | | | | | | | | | | | |
| 6 | 415 | 7.1 | 32 | C | 11.6 | -25 | 120 | -5.2 | 6.9 | -7.5 | 1 | J | 369 | 2.6 | 0 | C | 6.5 | -52 | 291 | 1.3 | -4.5 | -3.2 | 3 | J |
| 7 | 425 | 6.4 | 40 | C | 11.7 | -23 | 122 | -5.7 | 6.7 | -7.7 | 1 | J | 362 | 2.9 | 139 | C | 6.6 | -39 | 306 | 2.9 | -5.2 | -2.2 | 2 | J |
| 8 | 436 | 5.8 | 55 | J | 11.7 | -22 | 119 | -5.3 | 6.8 | -7.9 | 1 | J | 361 | 3.0 | 137 | C | 6.7 | -27 | 313 | 4.0 | -5.2 | -1.0 | 1 | C |
| 9 | 426 | 6.4 | 57 | J | 12.7 | -23 | 115 | -4.9 | 7.3 | -9.1 | 2 | J | 337 | 1.6 | 31 | J | 7.5 | -32 | 294 | 2.6 | -6.9 | -1.0 | 1 | J |
| 10 | 429 | 8.0 | 61 | J | 12.9 | -24 | 103 | -2.7 | 7.8 | -9.9 | 1 | J | 357 | 3.1 | 85 | C | 7.6 | -27 | 297 | 3.0 | -6.8 | -0.3 | 2 | J |
| 11 | 402 | 7.5 | 28 | C | 13.1 | -23 | 101 | -2.2 | 8.2 | -10.0 | 0 | C | 356 | 3.2 | 83 | C | 7.4 | -18 | 318 | 3.9 | -3.9 | 0.1 | 5 | J |
| 12 | 406 | 8.8 | 25 | J | 12.3 | -23 | 100 | -2.0 | 7.8 | -9.3 | 1 | J | 368 | 2.9 | 77 | C | 7.2 | -5 | 292 | 2.6 | -6.1 | 2.3 | 2 | J |
| 13 | 410 | 5.5 | 32 | J | 12.5 | -25 | 116 | -4.8 | 6.7 | -8.8 | 3 | J | 378 | 2.7 | 55 | C | 7.5 | -17 | 284 | 1.7 | -7.1 | 0.9 | 1 | J |
| 14 | 421 | 5.7 | 45 | J | 12.5 | -33 | 140 | -7.7 | 3.4 | -8.6 | 3 | J | 401 | 1.8 | 50 | J | 7.6 | -21 | 282 | 1.5 | -7.4 | 0.2 | 1 | J |
| 15 | 440 | 5.0 | 44 | J | 11.6 | -36 | 132 | -6.1 | 4.0 | -8.6 | 3 | J | 377 | 2.7 | 44 | C | 7.4 | -18 | 287 | 2.1 | -7.1 | 0.2 | 1 | J |
| 16 | 482 | 9.1 | 55 | J | 10.3 | -22 | 146 | -7.6 | 3.7 | -5.1 | 3 | J | 364 | 2.7 | 43 | C | 7.4 | -15 | 288 | 2.2 | -7.1 | 0.2 | 0 | J |
| 17 | 500 | 9.9 | 41 | J | 9.2 | -16 | 172 | -8.7 | 0.5 | -2.7 | 1 | J | 355 | 2.2 | 52 | J | 7.1 | -4 | 294 | 2.9 | -6.4 | 1.1 | 0 | J |
| 18 | 491 | 7.5 | 57 | J | 10.1 | -27 | 145 | -7.3 | 4.1 | -5.5 | 1 | J | 359 | 1.8 | 40 | J | 7.1 | -1 | 292 | 2.7 | -6.5 | 1.2 | 1 | J |
| 19 | 448 | 4.9 | 50 | C | 9.6 | -54 | 125 | -2.3 | 2.4 | -6.1 | 6 | C | 349 | 2.6 | 35 | C | 6.8 | 13 | 300 | 3.3 | -5.4 | 2.4 | 1 | J |
| 20 | 412 | 4.5 | 45 | J | 8.9 | -57 | 76 | 1.1 | 3.4 | -7.2 | 4 | J | 345 | 1.6 | 26 | J | 6.4 | 12 | 303 | 3.4 | -5.1 | 1.9 | 1 | J |
| 21 | 410 | 3.8 | 44 | J | 8.9 | -67 | 28 | 3.0 | 0.9 | -8.1 | 2 | J | 359 | 1.1 | 32 | J | 6.2 | 17 | 305 | 3.4 | -4.7 | 2.2 | 0 | J |
| 22 | 461 | 4.0 | 91 | J | 8.1 | -79 | 206 | -1.4 | -1.1 | -7.7 | 2 | J | 320 | 2.7 | 43 | C | 6.1 | 8 | 310 | 3.9 | -4.6 | 1.1 | 1 | J |
| 23 | 447 | 2.5 | 92 | J | 8.8 | -67 | 113 | -1.3 | 2.6 | -7.8 | 3 | J | 323 | 2.6 | 45 | C | 6.1 | 12 | 300 | 3.0 | -5.1 | 1.5 | 1 | J |
| 24 | 452 | 2.7 | 80 | J | 9.0 | -68 | 90 | 0.0 | 2.8 | -8.4 | 1 | J | 340 | 2.5 | 56 | C | 6.0 | 18 | 297 | 2.5 | -4.9 | 2.1 | 1 | J |

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## NOV. 15, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 335 | 2.3 | 52 | C | 5.8 | 37 | 309 | 2.9 | -3.3 | 3.7 | 1 | J |
| 2 | 332 | 2.3 | 51 | C | 6.0 | 42 | 308 | 2.7 | -3.0 | 4.2 | 1 | C |
| 3 | 336 | 2.4 | 42 | C | 5.9 | 43 | 308 | 2.5 | -2.7 | 4.3 | 1 | C |
| 4 | 351 | 5.5 | 26 | C | 5.5 | 43 | 308 | 2.3 | -2.1 | 3.9 | 2 | C |
| 5 | 355 | 4.8 | 18 | J | 5.3 | 27 | 282 | 1.0 | -3.8 | 3.5 | 1 | J |
| 6 | 352 | 5.3 | 17 | J | 5.1 | 45 | 289 | 1.2 | -2.1 | 4.4 | 1 | J |
| 7 | 349 | 5.3 | 20 | J | 5.1 | 46 | 287 | 1.0 | -1.8 | 4.6 | 1 | J |
| 8 | 343 | 5.5 | 19 | J | 4.8 | 48 | 272 | 0.1 | -1.5 | 4.6 | 1 | J |
| 9 | 342 | 5.5 | 20 | J | 4.9 | 43 | 287 | 1.0 | -1.5 | 4.2 | 2 | J |
| 10 | 355 | 4.8 | 20 | C | 5.3 | 43 | 267 | -0.2 | -1.6 | 4.4 | 2 | C |
| 11 | 331 | 3.2 | 28 | C | 5.8 | 32 | 283 | 1.0 | -2.7 | 4.7 | 2 | C |
| 12 | 325 | 3.4 | 28 | C | 6.0 | 8 | 307 | 3.5 | -3.9 | 2.8 | 1 | C |
| 13 | 325 | 5.5 | 17 | C | 5.4 | 15 | 306 | 3.0 | -3.2 | 3.0 | 1 | C |
| 14 | 325 | 5.0 | 20 | C | 5.1 | -6 | 310 | 3.2 | -3.7 | 0.9 | 1 | C |
| 15 | 321 | 3.6 | 21 | J | 4.3 | 1 | 328 | 3.4 | -2.0 | 0.8 | 1 | J |
| 16 | 331 | 3.6 | 21 | J | 4.1 | 6 | 325 | 2.3 | -3.1 | 1.4 | 0 | J |
| 17 | 317 | 5.8 | 15 | C | 3.8 | 14 | 316 | 2.5 | -2.1 | 1.5 | 1 | C |
| 18 | 333 | 4.1 | 13 | J | 4.2 | 26 | 318 | 2.8 | -2.1 | 2.3 | 0 | J |
| 19 | 335 | 6.3 | 15 | J | 4.3 | 25 | 318 | 2.9 | -2.3 | 2.1 | 0 | C |
| 20 | 335 | 5.0 | 14 | J | 4.1 | 38 | 323 | 2.6 | -1.7 | 2.7 | 1 | J |
| 21 | 328 | 5.2 | 15 | C | 4.5 | 34 | 319 | 2.8 | -2.2 | 2.7 | 1 | C |
| 22 | 333 | 8.1 | 11 | J | 4.3 | 49 | 346 | 2.7 | -0.5 | 3.2 | 1 | J |
| 23 | 334 | 6.2 | 11 | J | 4.8 | 53 | 343 | 2.8 | -0.7 | 3.8 | 1 | C |
| 24 | 330 | 7.2 | 12 | J | 4.9 | 49 | 330 | 2.2 | -1.2 | 3.0 | 3 | C |

## NOV. 16, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 344 | 14.0 | 18 | J | 4.1 | 47 | 285 | 0.6 | -2.1 | 2.7 | 2 | J |
| 2 | 350 | 21.8 | 20 | J | 4.5 | -57 | 162 | -2.3 | 0.4 | -3.7 | 2 | J |
| 3 | 356 | 35.7 | 21 | C | 5.1 | -54 | 126 | -1.1 | 1.2 | -2.8 | 3 | C |
| 4 | 374 | 12.3 | 27 | J | 10.1 | -26 | 93 | -0.3 | 5.6 | -4.3 | 7 | J |
| 5 | 374 | 9.4 | 25 | J | 10.2 | -21 | 86 | 0.7 | 8.1 | -5.8 | 2 | J |
| 6 | 363 | 8.3 | 37 | J | 9.9 | -10 | 97 | -1.2 | 8.4 | -4.5 | 2 | J |
| 7 | 373 | 8.7 | 28 | J | 10.1 | -32 | 86 | 0.6 | 5.9 | -7.9 | 2 | J |
| 8 | 363 | 11.6 | 43 | J | 8.9 | 36 | 96 | -0.4 | 4.7 | 1.0 | 7 | J |
| 9 | 360 | 10.8 | 52 | J | 7.5 | 44 | 97 | -0.4 | 4.1 | 1.4 | 6 | J |
| 10 | 355 | 10.1 | 63 | J | 7.4 | 38 | 116 | -2.0 | 5.4 | 1.4 | 4 | J |
| 11 | 364 | 12.7 | 55 | J | 7.8 | 4 | 75 | 1.9 | 6.4 | -2.6 | 3 | J |
| 12 | 371 | 11.7 | 58 | J | 8.3 | 34 | 59 | 3.1 | 6.4 | 1.4 | 4 | J |
| 13 | 343 | 13.3 | 51 | C | 7.6 | -19 | 98 | -0.8 | 4.8 | -4.6 | 3 | C |
| 14 | 338 | 10.7 | 35 | J | 6.9 | -47 | 154 | -4.2 | -0.0 | -5.4 | 1 | J |
| 15 | 335 | 10.2 | 37 | J | 6.9 | -49 | 148 | -3.8 | 0.5 | -5.7 | 0 | J |
| 16 | 332 | 10.4 | 34 | J | 6.0 | -53 | 184 | -2.9 | -1.3 | -3.7 | 3 | J |
| 17 | 333 | 10.8 | 36 | J | 6.4 | -53 | 202 | -3.3 | -2.4 | -4.3 | 2 | J |
| 18 | 321 | 12.1 | 33 | C | 6.6 | -60 | 185 | -2.9 | -1.2 | -4.8 | 3 | C |
| 19 | 316 | 11.0 | 34 | C | 6.8 | -41 | 147 | -3.8 | 1.9 | -4.2 | 3 | C |
| 20 | 324 | 7.7 | 22 | J | 7.4 | -5 | 112 | -2.6 | 6.5 | -1.3 | 2 | J |
| 21 | 320 | 9.1 | 28 | J | 7.2 | 16 | 119 | -3.4 | 6.2 | 1.6 | 0 | J |
| 22 | 332 | 9.4 | 29 | J | 7.9 | 4 | 109 | -2.5 | 7.3 | 0.2 | 2 | J |
| 23 | 335 | 11.1 | 28 | J | 7.6 | -56 | 140 | -2.0 | 1.5 | -4.0 | 6 | J |
| 24 | 340 | 9.3 | 50 | J | 6.1 | -46 | 143 | -2.9 | 2.0 | -3.8 | 3 | J |

## NOV. 17, 1979

321

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 334 | 11.3 | 57 | J | 6.1 | -21 | 231 | -2.2 | -2.8 | -1.2 | 5 | J |
| 2 | 329 | 11.7 | 83 | C | 6.2 | 17 | 188 | -4.9 | -0.5 | 1.6 | 3 | C |
| 3 | 338 | 10.3 | 81 | C | 7.3 | -3 | 134 | -3.9 | 4.0 | -0.9 | 4 | C |
| 4 | 340 | 9.3 | 77 | C | 8.9 | 4 | 152 | -7.8 | 4.2 | -0.2 | 1 | J |
| 5 | 344 | 8.6 | 76 | C | 8.8 | 9 | 138 | -6.0 | 5.5 | -0.2 | 3 | C |
| 6 | 381 | 4.6 | 51 | J | 8.9 | 50 | 89 | 0.1 | 6.4 | 4.1 | 5 | J |
| 7 | 382 | 4.8 | 62 | J | 9.2 | 79 | 206 | -1.4 | 2.2 | 7.8 | 4 | J |
| 8 | 383 | 5.7 | 159 | J | 7.7 | 42 | 164 | -3.8 | 2.4 | 2.8 | 6 | J |
| 9 | 404 | 4.6 | 132 | J | 6.5 | -22 | 108 | -1.8 | 4.0 | -4.4 | 2 | J |
| 10 | 369 | 4.5 | 127 | C | 7.4 | 75 | 179 | -1.5 | 2.4 | 4.9 | 5 | C |
| 11 | 377 | 4.7 | 156 | C | 6.4 | 77 | 100 | -0.2 | 2.8 | 3.4 | 4 | C |
| 12 | 382 | 4.3 | 152 | C | 7.9 | 56 | 295 | 1.8 | -0.8 | 7.5 | 1 | C |
| 13 | 363 | 5.2 | 153 | C | 6.7 | 68 | 161 | -1.9 | 2.6 | 4.3 | 4 | J |
| 14 | 406 | 5.4 | 132 | J | 6.4 | 67 | 5 | 1.6 | 1.5 | 3.4 | 5 | J |
| 15 | 388 | 4.9 | 117 | J | 6.7 | 84 | 196 | -0.5 | 1.6 | 5.0 | 4 | J |
| 16 | 370 | 5.7 | 140 | C | 6.7 | 74 | 141 | -1.3 | 2.7 | 5.4 | 2 | C |
| 17 | 381 | 5.8 | 141 | C | 8.1 | 66 | 250 | -1.0 | -1.1 | 7.2 | 3 | C |
| 18 | 384 | 5.5 | 144 | C | 7.4 | 75 | 94 | -0.1 | 3.0 | 6.1 | 2 | C |
| 19 | 393 | 3.5 | 128 | C | 8.0 | 26 | 82 | 0.7 | 5.0 | 1.7 | 6 | C |
| 20 | 441 | 3.7 | 68 | C | 8.7 | -5 | 89 | 0.2 | 7.9 | -1.4 | 3 | C |
| 21 | 373 | 4.9 | 143 | C | 8.5 | 34 | 130 | -3.3 | 4.1 | 3.2 | 5 | C |
| 22 | 393 | 5.3 | 136 | C |  |  |  |  |  |  |  |  |
| 23 | 382 | 5.3 | 156 | C | 7.5 | 47 | 145 | -3.5 | 2.6 | 4.6 | 3 | C |
| 24 | 380 | 5.3 | 140 | C | 7.9 | 50 | 213 | -3.6 | -2.2 | 5.1 | 4 | C |

## NOV. 18, 1979

322

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 395 | 5.0 | 124 | C | 7.9 | 73 | 119 | -0.9 | 2.0 | 6.3 | 4 | C |
| 2 | 409 | 4.3 | 129 | C | 7.5 | 65 | 102 | -0.5 | 2.7 | 4.9 | 4 | C |
| 3 | 431 | 5.3 | 145 | C | 10.2 | 34 | 218 | -4.1 | -2.7 | 3.8 | 8 | C |
| 4 | 462 | 6.2 | 194 | C | 13.4 | 33 | 214 | -7.9 | -4.1 | 7.1 | 6 | C |
| 5 | 472 | 5.2 | 211 | C | 10.4 | 26 | 211 | -6.2 | -2.7 | 4.2 | 6 | C |
| 6 | 467 | 4.7 | 182 | C | 9.6 | 34 | 207 | -6.5 | -1.7 | 5.6 | 3 | C |
| 7 | 466 | 3.8 | 205 | C | 8.2 | 14 | 193 | -6.5 | -0.9 | 2.1 | 4 | C |
| 8 | 489 | 3.2 | 290 | C | 7.7 | 34 | 165 | -5.6 | 3.0 | 3.1 | 2 | C |
| 9 | 493 | 2.4 | 237 | C | 7.8 | 41 | 141 | -4.5 | 5.4 | 3.1 | 1 | C |
| 10 | 519 | 2.2 | 223 | C | 7.6 | 37 | 118 | -2.7 | 6.5 | 1.7 | 2 | C |
| 11 | 483 | 2.3 | 236 | C | 7.1 | 33 | 117 | -2.7 | 6.3 | 1.2 | 1 | C |
| 12 | 470 | 2.1 | 226 | C | 6.8 | 28 | 110 | -2.0 | 6.4 | 0.5 | 1 | C |
| 13 | 479 | 1.9 | 194 | C | 6.7 | 27 | 111 | -2.1 | 6.2 | 0.6 | 1 | C |
| 14 | 471 | 1.8 | 185 | C | 6.3 | 27 | 110 | -1.9 | 5.8 | 0.7 | 1 | C |
| 15 | 459 | 1.7 | 174 | C | 6.0 | 26 | 120 | -2.6 | 5.2 | 0.9 | 1 | C |
| 16 | 484 | 2.2 | 130 | C | 5.7 | 15 | 77 | 1.2 | 5.3 | -0.0 | 2 | C |
| 17 | 430 | 2.2 | 121 | C | 5.2 | 20 | 118 | -2.1 | 4.2 | 0.7 | 2 | C |
| 18 | 436 | 2.2 | 127 | C | 5.2 | 12 | 136 | -3.5 | 3.5 | 0.4 | 1 | C |
| 19 | 445 | 1.9 | 115 | C | 5.0 | 19 | 119 | -2.2 | 4.2 | 1.1 | 1 | C |
| 20 | 438 | 1.8 | 112 | C | 4.6 | 30 | 146 | -3.3 | 2.4 | 2.1 | 1 | C |
| 21 | 449 | 2.1 | 89 | C | 4.3 | 20 | 108 | -1.0 | 3.3 | 1.0 | 2 | C |
| 22 | 436 | 2.1 | 91 | C |  |  |  |  |  |  |  |  |
| 23 | 425 | 1.9 | 79 | C | 4.1 | 34 | 121 | -1.7 | 2.9 | 2.2 | 0 | C |
| 24 | 410 | 2.0 | 66 | C | 4.0 | 34 | 110 | -1.1 | 3.1 | 2.1 | 1 | C |

## NOV. 19, 1979

323

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 407 | 2.0 | 54 | C | 3.8 | 28 | 103 | -0.7 | 3.3 | 1.6 | 1 | C |
| 2 | 406 | 2.0 | 65 | C | 3.9 | 36 | 124 | -1.8 | 2.8 | 2.0 | 1 | C |
| 3 | 403 | 2.1 | 58 | C | 3.8 | 45 | 132 | -1.8 | 2.3 | 2.4 | 1 | C |
| 4 | 409 | 2.3 | 53 | C | 3.7 | 34 | 113 | -1.2 | 3.1 | 1.5 | 0 | C |
| 5 | 411 | 3.3 | 42 | C | 4.1 | 59 | 95 | -0.1 | 2.6 | 2.6 | 2 | C |
| 6 | 406 | 3.1 | 36 | C | 4.2 | -35 | 114 | -0.2 | 0.3 | -0.5 | 4 | C |
| 7 | 389 | 2.9 | 32 | C | 4.7 | -64 | 249 | -0.7 | -3.2 | -3.2 | 1 | C |
| 8 | 375 | 3.1 | 34 | C | 4.8 | -53 | 208 | -2.5 | -2.7 | -2.9 | 1 | C |
| 9 | 372 | 3.8 | 30 | C | 4.7 | -77 | 217 | -0.8 | -2.4 | -3.8 | 1 | C |
| 10 | 376 | 3.6 | 25 | C | 5.0 | -71 | 251 | -0.5 | -3.4 | -3.6 | 1 | C |
| 11 | 355 | 4.2 | 42 | C | 4.3 | -62 | 170 | -1.9 | -1.2 | -3.4 | 1 | C |
| 12 | 351 | 4.7 | 49 | C | 4.1 | -36 | 163 | -3.0 | -0.1 | -2.4 | 1 | C |
| 13 | 319 | 5.8 | 0 | C | 4.2 | -29 | 161 | -3.4 | 0.3 | -2.3 | 0 | C |
| 14 | 360 | 4.9 | 56 | C | 4.0 | -36 | 157 | -2.1 | 0.2 | -1.9 | 3 | C |
| 15 | 353 | 5.8 | 61 | C | 4.6 | 4 | 158 | -4.0 | 1.6 | -0.2 | 2 | C |
| 16 | 369 | 6.3 | 61 | C | 4.2 | -5 | 102 | -0.6 | 2.5 | -0.9 | 3 | C |
| 17 | 354 | 7.1 | 55 | C | 4.4 | 35 | 133 | -2.3 | 2.9 | 1.7 | 1 | C |
| 18 | 357 | 6.6 | 58 | C | 4.3 | -13 | 187 | -2.1 | -0.3 | -0.4 | 3 | C |
| 19 | 346 | 6.7 | 57 | C | 4.9 | -17 | 208 | -3.5 | -2.0 | -1.0 | 2 | C |
| 20 | 342 | 6.2 | 55 | C | 5.1 | -21 | 210 | -4.0 | -2.4 | -1.5 | 1 | C |
| 21 | 352 | 6.6 | 55 | C | 5.2 | -58 | 177 | -2.0 | -0.1 | -3.3 | 3 | C |
| 22 | 371 | 7.6 | 59 | C | 6.4 | -41 | 82 | 0.6 | 4.0 | -3.7 | 3 | C |
| 23 | 376 | 7.9 | 60 | C | 6.6 | -28 | 93 | -0.2 | 4.7 | -2.6 | 4 | C |
| 24 | 387 | 6.8 | 66 | C | 6.0 | -13 | 59 | 2.8 | 4.6 | -1.4 | 2 | C |

## NOV. 20, 1979

324

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 7.6 | 83 | C | 4.8 | 5 | 66 | 1.8 | 3.9 | 0.2 | 2 | C |
| 2 | 367 | 6.1 | 63 | C | 5.5 | 12 | 70 | 1.8 | 4.9 | 0.7 | 2 | C |
| 3 | 366 | 4.5 | 54 | C | 6.2 | 33 | 81 | 0.8 | 4.8 | 2.4 | 2 | C |
| 4 | 376 | 4.6 | 41 | C | 6.5 | 39 | 87 | 0.3 | 5.1 | 2.8 | 2 | C |
| 5 | 377 | 4.7 | 47 | C | 6.9 | 12 | 90 | -0.0 | 6.7 | -0.1 | 1 | C |
| 6 | 387 | 6.4 | 186 | A | 8.3 | 5 | 84 | 0.9 | 7.5 | -1.5 | 3 | C |
| 7 | 424 | 7.3 | 102 | C | 6.8 | -7 | 36 | 5.0 | 3.1 | -1.9 | 2 | C |
| 8 | 410 | 7.3 | 67 | C |  |  |  |  |  |  |  |  |
| 9 | 414 | 7.4 | 59 | C | 8.7 | 16 | 69 | 2.8 | 7.7 | -0.9 | 2 | C |
| 10 | 391 | 7.2 | 126 | A |  |  |  |  |  |  |  |  |
| 11 | 393 | 9.3 | 73 | C | 10.2 | -8 | 111 | -3.0 | 6.6 | -4.4 | 5 | C |
| 12 | 337 | 9.5 | 67 | C | 10.4 | 20 | 107 | -2.7 | 9.4 | -0.6 | 3 | C |
| 13 | 401 | 9.2 | 108 | A |  |  |  |  |  |  |  |  |
| 14 | 395 | 9.8 | 46 | C | 8.9 | 14 | 97 | -0.9 | 7.6 | -0.9 | 4 | C |
| 15 | 339 | 9.3 | 52 | C | 8.9 | 10 | 105 | -2.2 | 8.2 | -1.2 | 2 | C |
| 16 | 337 | 8.7 | 56 | C | 8.5 | -12 | 108 | -2.5 | 7.0 | -3.8 | 1 | C |
| 17 | 377 | 9.3 | 54 | C | 7.7 | -13 | 113 | -2.5 | 5.6 | -2.8 | 3 | C |
| 18 | 381 | 9.2 | 53 | C | 6.9 | 10 | 87 | 0.3 | 6.3 | 0.1 | 3 | C |
| 19 | 378 | 9.0 | 55 | C | 6.4 | 41 | 105 | -1.1 | 4.7 | 3.3 | 2 | C |
| 20 | 362 | 9.9 | 44 | C | 6.7 | 19 | 156 | -4.7 | 2.2 | 1.7 | 3 | C |
| 21 | 380 | 10.1 | 48 | C | 6.6 | 23 | 83 | 0.6 | 4.9 | 1.9 | 3 | C |
| 22 | 379 | 9.7 | 52 | C | 6.8 | -5 | 94 | -0.5 | 5.9 | -0.7 | 3 | C |
| 23 | 369 | 10.9 | 53 | C | 6.5 | 8 | 106 | -1.8 | 6.0 | 0.9 | 1 | C |
| 24 | 365 | 10.7 | 47 | C | 6.3 | -6 | 86 | 0.4 | 6.1 | -0.7 | 1 | C |

## NOV. 21, 1979

325

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 356 | 10.8 | 46 | C | 6.1 | -3 | 98 | -0.8 | 5.9 | -0.5 | 1 | C |
| 2 | 344 | 10.9 | 35 | C | 5.9 | -3 | 100 | -1.0 | 5.6 | -0.6 | 1 | C |
| 3 | 340 | 10.9 | 83 | A |  |  |  |  |  |  |  |  |
| 4 | 343 | 11.2 | 82 | A |  |  |  |  |  |  |  |  |
| 5 | 342 | 11.5 | 77 | A |  |  |  |  |  |  |  |  |
| 6 | 330 | 11.4 | 67 | A |  |  |  |  |  |  |  |  |
| 7 | 330 | 11.1 | 23 | C | 4.7 | -74 | 178 | -1.3 | -1.4 | -4.2 | 1 | C |
| 8 | 328 | 11.2 | 23 | C | 4.7 | -76 | 134 | -0.8 | -0.9 | -4.4 | 1 | C |
| 9 | 320 | 10.8 | 21 | C | 4.7 | -66 | 164 | -1.8 | -1.2 | -4.1 | 1 | C |
| 10 | 317 | 10.5 | 20 | C | 4.1 | -79 | 354 | 0.8 | -1.7 | -3.6 | 1 | C |
| 11 | 306 | 10.9 | 19 | C | 3.4 | -60 | 129 | -1.0 | -0.0 | -2.9 | 1 | C |
| 12 | 305 | 10.3 | 25 | C | 3.4 | -34 | 162 | -2.4 | 0.0 | -1.9 | 1 | C |
| 13 | 306 | 9.7 | 23 | C | 3.1 | -54 | 137 | -1.0 | 0.1 | -2.1 | 2 | C |
| 14 | 304 | 9.3 | 28 | C | 3.1 | -50 | 184 | -1.9 | -0.9 | -2.1 | 1 | C |
| 15 | 304 | 8.5 | 26 | C | 3.2 | -54 | 162 | -1.7 | -0.2 | -2.5 | 1 | C |
| 16 | 302 | 8.5 | 22 | C | 3.8 | -55 | 224 | -1.5 | -2.2 | -2.5 | 1 | C |
| 17 | 306 | 8.2 | 27 | C | 3.7 | -60 | 140 | -1.1 | 0.4 | -2.6 | 2 | C |
| 18 | 299 | 7.5 | 30 | C | 4.4 | -17 | 111 | -1.5 | 3.5 | -1.8 | 1 | C |
| 19 | 307 | 5.4 | 52 | C | 3.7 | -32 | 204 | -0.9 | -0.5 | -0.6 | 3 | C |
| 20 | 312 | 1.9 | 81 | C | 4.8 | -24 | 255 | -1.1 | -4.3 | -1.6 | 1 | C |
| 21 | 307 | 2.6 | 74 | C | 3.5 | 22 | 85 | 0.2 | 2.5 | 0.9 | 2 | C |
| 22 | 311 | 2.1 | 59 | C | 4.2 | 13 | 83 | 0.5 | 4.0 | 0.9 | 1 | C |
| 23 | 321 | 3.1 | 46 | C | 3.9 | 27 | 83 | 0.4 | 3.4 | 1.7 | 1 | C |
| 24 | 323 | 4.2 | 36 | C | 3.7 | 17 | 77 | 0.8 | 3.4 | 1.0 | 1 | C |

## NOV. 22, 1979

326

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 320 | 4.7 | 40 | C | 3.6 | 24 | 78 | 0.7 | 3.1 | 1.3 | 1 | C |
| 2 | 306 | 5.7 | 23 | C | 4.1 | 69 | 126 | -0.8 | 1.4 | 3.7 | 1 | C |
| 3 | 303 | 5.5 | 20 | C | 4.5 | 58 | 113 | -0.9 | 2.6 | 3.6 | 0 | C |
| 4 | 314 | 5.6 | 32 | C | 5.6 | 21 | 90 | -0.0 | 5.2 | 1.1 | 1 | C |
| 5 | 311 | 4.5 | 39 | C | 6.2 | 12 | 93 | -0.3 | 5.8 | -0.0 | 2 | C |
| 6 | 308 | 4.2 | 30 | C | 6.6 | 42 | 81 | 0.8 | 5.8 | 2.9 | 1 | C |
| 7 | 309 | 4.5 | 35 | C | 7.0 | 26 | 80 | 1.1 | 6.7 | 0.9 | 1 | C |
| 8 | 313 | 5.1 | 35 | C | 6.4 | 14 | 75 | 1.6 | 6.0 | -0.8 | 1 | C |
| 9 | 316 | 4.5 | 37 | C | 6.3 | 6 | 85 | 0.5 | 5.9 | -1.9 | 1 | C |
| 10 | 312 | 4.1 | 38 | C | 6.3 | 7 | 88 | 0.2 | 6.0 | -1.8 | 1 | C |
| 11 | 311 | 3.5 | 55 | C | 6.0 | 49 | 112 | -1.4 | 5.2 | 2.6 | 1 | C |
| 12 | 308 | 3.6 | 74 | C | 5.2 | 20 | 116 | -2.1 | 4.5 | -0.1 | 1 | C |
| 13 | 310 | 3.0 | 0 | C | 5.6 | 21 | 116 | -2.3 | 5.0 | 0.1 | 1 | C |
| 14 | 319 | 2.5 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 324 | 2.5 | 36 | C | 6.7 | 17 | 110 | -2.1 | 6.3 | 0.1 | 0 | C |
| 16 | 317 | 2.0 | 31 | C | 11.0 | 30 | 78 | 2.0 | 10.3 | 2.9 | 1 | J |
| 17 | 318 | 1.7 | 26 | C | 11.7 | 41 | 97 | -1.1 | 10.2 | 5.7 | 1 | J |
| 18 | 326 | 1.5 | 30 | C | 11.6 | 40 | 96 | -0.9 | 9.8 | 5.9 | 1 | J |
| 19 | 330 | 1.3 | 45 | C | 10.1 | 30 | 92 | -0.3 | 9.1 | 4.1 | 2 | J |
| 20 | 311 | 1.1 | 39 | C | 9.7 | 31 | 98 | -1.2 | 8.5 | 4.5 | 1 | J |
| 21 | 317 | 0.9 | 40 | C | 9.1 | 27 | 105 | -2.1 | 7.9 | 3.8 | 1 | J |
| 22 | 331 | 0.2 | 19 | C | 9.2 | 33 | 101 | -1.5 | 7.5 | 4.9 | 1 | J |
| 23 | 340 | 0.2 | 29 | C | 8.3 | 36 | 117 | -3.0 | 6.0 | 4.9 | 1 | J |
| 24 | 311 | 0.1 | 11 | C | 8.4 | 37 | 115 | -2.8 | 6.0 | 5.0 | 1 | J |

# 11/23/79 – 11/30/79

NOV. 23, 1979

327

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 139 | 3.6 | 0 | C | 7.1 | 29 | 126 | -3.5 | 4.9 | 3.2 | 2 | J |
| 2 | 333 | 0.7 | 15 | C | 8.4 | 28 | 103 | -1.6 | 7.2 | 3.5 | 2 | J |
| 3 | 329 | 2.0 | 14 | C | 11.0 | 23 | 97 | -1.2 | 10.1 | 3.2 | 2 | J |
| 4 | 333 | 1.8 | 12 | C | 7.8 | -4 | 118 | -3.3 | 6.1 | -1.4 | 3 | J |
| 5 | 338 | 1.8 | 11 | C | 10.5 | 13 | 93 | -0.5 | 9.8 | 0.1 | 4 | J |
| 6 | 332 | 1.8 | 14 | C | 10.3 | 12 | 97 | -1.2 | 9.6 | -0.6 | 4 | J |
| 7 | 360 | 1.8 | 14 | C | 12.4 | 13 | 82 | 1.6 | 11.8 | -1.2 | 3 | J |
| 8 | 327 | 1.3 | 19 | J | 8.4 | -3 | 120 | -3.8 | 6.0 | -2.8 | 4 | J |
| 9 | 334 | 1.5 | 9 | C | 11.7 | 13 | 95 | -1.0 | 11.4 | -2.0 | 0 | J |
| 10 | 318 | 1.6 | 12 | C | 7.4 | -10 | 123 | -4.0 | 5.1 | -3.7 | 1 | C |
| 11 | 326 | 1.5 | 16 | J | 7.6 | -8 | 125 | -4.2 | 5.1 | -3.4 | 2 | J |
| 12 | 328 | 1.6 | 17 | J | 7.3 | -7 | 119 | -3.4 | 5.3 | -3.2 | 1 | J |
| 13 | 356 | 1.8 | 25 | J | 6.9 | 1 | 100 | -1.2 | 6.2 | -2.4 | 2 | J |
| 14 | 345 | 2.1 | 31 | J | 7.2 | -1 | 119 | -3.4 | 5.8 | -2.2 | 1 | J |
| 15 | 338 | 2.3 | 19 | J | 7.4 | -6 | 123 | -4.0 | 5.6 | -2.5 | 1 | J |
| 16 | 325 | 2.3 | 16 | J | 7.8 | -10 | 147 | -2.4 | 1.4 | -0.9 | 8 | J |
| 17 | 328 | 6.0 | 10 | C | 7.6 | -8 | 118 | -3.5 | 6.2 | -2.4 | 1 | C |
| 18 | 323 | 5.6 | 10 | C | 7.9 | -8 | 120 | -3.9 | 6.5 | -2.1 | 1 | C |
| 19 | 327 | 4.6 | 16 | J | 8.8 | -16 | 132 | -5.4 | 5.7 | -2.9 | 2 | J |
| 20 | 319 | 6.3 | 10 | C | 9.4 | -23 | 130 | -5.4 | 6.3 | -4.0 | 2 | J |
| 21 | 332 | 4.4 | 17 | J | 9.8 | -25 | 131 | -5.6 | 6.3 | -4.1 | 2 | J |
| 22 | 329 | 4.0 | 12 | J | 9.9 | -35 | 119 | -3.8 | 6.9 | -5.5 | 2 | J |
| 23 | 343 | 5.6 | 21 | J | 10.3 | -40 | 111 | -2.8 | 7.4 | -6.6 | 1 | J |
| 24 | 341 | 6.5 | 18 | J | 10.8 | -35 | 112 | -3.3 | 8.1 | -6.0 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 6.8 | 19 | J | 11.2 | -27 | 115 | -4.1 | 8.8 | -5.1 | 2 | J |
| 338 | 7.2 | 18 | J | 11.7 | -36 | 112 | -3.5 | 8.3 | -7.1 | 2 | J |
| 333 | 7.8 | 16 | J | 12.4 | -40 | 116 | -4.1 | 7.6 | -8.6 | 2 | J |
| 332 | 5.5 | 18 | J | 12.4 | -69 | 142 | -3.4 | 1.0 | -11.7 | 3 | J |
| 332 | 6.8 | 18 | C | 12.2 | -81 | 191 | -1.9 | -2.8 | -11.7 | 1 | J |
| 342 | 6.9 | 21 | C | 11.8 | -78 | 95 | -0.2 | -0.6 | -11.7 | 1 | C |
| 343 | 7.4 | 23 | C | 10.9 | -50 | 113 | -2.7 | 3.5 | -10.0 | 1 | J |
| 343 | 7.8 | 32 | C | 10.6 | -38 | 107 | -2.4 | 5.1 | -8.9 | 1 | J |
| 351 | 10.8 | 48 | J | 11.0 | 2 | 115 | -4.4 | 8.9 | -3.3 | 3 | J |
| 361 | 11.8 | 56 | J | 11.8 | 22 | 117 | -4.4 | 9.5 | 0.1 | 5 | J |
| 365 | 11.9 | 47 | J | 12.0 | -8 | 110 | -3.9 | 9.1 | -5.7 | 4 | J |
| 377 | 17.5 | 42 | J | 11.4 | -49 | 83 | 0.9 | 3.4 | -10.4 | 3 | J |
| 361 | 15.4 | 47 | C | 11.0 | -33 | 122 | -4.6 | 4.8 | -7.9 | 4 | J |
| 361 | 12.9 | 52 | J | 12.2 | 31 | 133 | -7.1 | 9.2 | 3.3 | 1 | J |
| 357 | 11.3 | 61 | J | 11.9 | 31 | 138 | -7.4 | 8.1 | 3.8 | 3 | J |
| 362 | 8.6 | 55 | J | 12.1 | 18 | 129 | -7.2 | 9.5 | 1.4 | 2 | J |
| 368 | 11.8 | 52 | J | 10.8 | -13 | 115 | -4.3 | 8.6 | -4.1 | 3 | J |
| 379 | 13.6 | 37 | J | 10.5 | -50 | 90 | 0.0 | 5.2 | -8.3 | 4 | J |
| 347 | 11.4 | 40 | J | 11.3 | 12 | 122 | -5.8 | 9.5 | 1.4 | 1 | J |
| 355 | 13.7 | 47 | J | 10.6 | -22 | 115 | -3.3 | 6.8 | -3.5 | 7 | J |
| 354 | 11.4 | 37 | J | 10.5 | -47 | 112 | -2.5 | 6.1 | -7.3 | 3 | J |
| 374 | 5.3 | 64 | J | 11.0 | -37 | 129 | -5.2 | 6.5 | -6.2 | 4 | J |
| 380 | 5.8 | 93 | J | 10.0 | -17 | 129 | -5.6 | 7.0 | -2.6 | 4 | J |
| 385 | 8.0 | 108 | J | 8.9 | -52 | 119 | -2.4 | 4.3 | -6.2 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 392 | 9.6 | 110 | J | 8.1 | -56 | 130 | -2.8 | 3.3 | -6.6 | 2 | J |
| 2 | 379 | 7.4 | 75 | J | 9.5 | -67 | 130 | -2.4 | 2.5 | -8.8 | 1 | J |
| 3 | 385 | 6.8 | 69 | J | 10.4 | -61 | 136 | -3.6 | 2.7 | -9.3 | 1 | J |
| 4 | 366 | 12.9 | 41 | C | 10.6 | -64 | 156 | -3.1 | 0.4 | -7.1 | 7 | C |
| 5 | 362 | 16.0 | 20 | C | 10.5 | -28 | 295 | 3.9 | -9.1 | -3.1 | 2 | J |
| 6 | 360 | 15.6 | 19 | C | 10.4 | -20 | 296 | 4.3 | -9.4 | -1.2 | 1 | J |
| 7 | 354 | 13.5 | 14 | C | 10.3 | -13 | 294 | 4.0 | -9.3 | 0.6 | 2 | J |
| 8 | 364 | 16.7 | 16 | J | 10.3 | -6 | 292 | 3.8 | -9.2 | 2.3 | 1 | J |
| 9 | 350 | 7.8 | 10 | C | 11.2 | -24 | 299 | 4.6 | -9.2 | -0.8 | 4 | J |
| 10 | 347 | 7.6 | 8 | C | 10.7 | -18 | 300 | 5.0 | -9.2 | 0.4 | 2 | J |
| 11 | 344 | 8.0 | 9 | C | 10.7 | -21 | 300 | 4.9 | -9.4 | -0.1 | 1 | J |
| 12 | 349 | 8.1 | 17 | J | 10.5 | -30 | 307 | 5.5 | -8.7 | -2.1 | 1 | J |
| 13 | 342 | 8.7 | 17 | J | 10.1 | -23 | 302 | 4.9 | -8.7 | -0.8 | 1 | J |
| 14 | 335 | 9.4 | 16 | J | 9.5 | -17 | 297 | 4.1 | -8.5 | 0.0 | 1 | J |
| 15 | 332 | 10.1 | 14 | J | 8.8 | -14 | 290 | 2.9 | -8.2 | 0.3 | 1 | J |
| 16 | 331 | 9.5 | 13 | J | 8.5 | -7 | 289 | 2.7 | -8.0 | 0.9 | 1 | J |
| 17 | 333 | 8.3 | 15 | J | 9.2 | 0 | 285 | 2.4 | -8.6 | 1.7 | 1 | J |
| 18 | 328 | 8.7 | 11 | J | 9.1 | -10 | 298 | 4.2 | -8.0 | -0.5 | 1 | J |
| 19 | 329 | 9.2 | 16 | J | 8.4 | 3 | 289 | 2.6 | -7.4 | 1.1 | 3 | J |
| 20 | 325 | 8.6 | 22 | J | 8.4 | 23 | 263 | -0.9 | -7.5 | 3.6 | 1 | J |
| 21 | 322 | 9.5 | 21 | J | 8.4 | 21 | 266 | -0.5 | -7.2 | 2.9 | 3 | J |
| 22 | 336 | 7.3 | 22 | J | 8.7 | -5 | 300 | 4.2 | -7.3 | -0.8 | 2 | J |
| 23 | 341 | 7.4 | 21 | J | 8.1 | -3 | 299 | 3.8 | -6.9 | -0.6 | 2 | J |
| 24 | 355 | 8.7 | 17 | J | 7.6 | 7 | 298 | 3.4 | -6.3 | 0.8 | 2 | J |

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330

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 11.8 | 20 | C | 6.7 | 22 | 288 | 1.9 | -5.7 | 2.4 | 2 | J |
| 347 | 8.2 | 18 | J | 6.8 | 12 | 298 | 3.0 | -5.7 | 1.6 | 1 | J |
| 351 | 7.6 | 29 | J | 6.7 | 16 | 292 | 2.3 | -5.6 | 2.2 | 2 | J |
| 332 | 9.1 | 14 | C | 6.6 | 18 | 288 | 1.9 | -5.6 | 2.8 | 1 | J |
| 335 | 9.0 | 14 | C | 6.7 | 24 | 294 | 2.5 | -5.0 | 3.8 | 1 | C |
| 328 | 7.9 | 12 | J | 6.4 | 23 | 300 | 2.9 | -4.3 | 3.7 | 0 | J |
| 334 | 8.8 | 14 | J | 6.2 | 26 | 289 | 1.8 | -4.1 | 4.0 | 2 | J |
| 329 | 12.6 | 11 | J | 6.1 | 21 | 278 | 0.8 | -4.5 | 3.9 | 1 | J |
| 326 | 14.1 | 10 | C | 6.4 | 13 | 303 | 3.4 | -4.2 | 3.3 | 1 | C |
| 334 | 14.3 | 9 | C | 7.3 | 10 | 298 | 3.4 | -5.3 | 3.6 | 1 | C |
| 368 | 11.1 | 16 | J | 8.3 | 9 | 295 | 3.4 | -6.3 | 4.1 | 0 | C |
| 351 | 10.6 | 14 | J | 8.4 | 5 | 294 | 3.4 | -6.8 | 3.6 | 1 | C |
| 353 | 12.8 | 12 | J | 9.1 | 5 | 291 | 3.2 | -7.6 | 3.8 | 1 | J |
| 365 | 10.8 | 15 | J | 9.2 | 10 | 288 | 2.8 | -7.6 | 4.2 | 1 | J |
| 368 | 14.0 | 18 | J | 8.5 | 24 | 283 | 1.7 | -6.2 | 5.4 | 2 | J |
| 365 | 7.3 | 37 | J | 9.2 | 48 | 173 | -5.8 | 2.2 | 6.1 | 3 | J |
| 388 | 5.4 | 87 | J | 8.8 | 39 | 165 | -6.5 | 2.7 | 5.0 | 2 | J |
| 398 | 4.1 | 68 | J | 8.9 | -18 | 102 | -1.7 | 7.6 | -3.7 | 2 | J |
| 414 | 4.6 | 85 | J | 8.5 | -25 | 103 | -1.7 | 6.9 | -4.0 | 2 | J |
| 411 | 4.4 | 71 | J | 7.9 | -15 | 121 | -3.8 | 6.3 | -2.2 | 2 | J |
| 411 | 4.0 | 40 | J | 7.5 | 2 | 118 | -3.5 | 6.4 | 0.2 | 1 | C |
| 422 | 4.4 | 71 | J | 6.2 | 32 | 162 | -4.6 | 1.4 | 3.0 | 2 | J |
| 440 | 5.0 | 163 | J | 5.9 | 13 | 138 | -4.0 | 3.5 | 1.3 | 2 | J |
| 433 | 5.8 | 187 | J | 6.3 | 23 | 128 | -3.2 | 4.0 | 2.3 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 432 | 5.4 | 160 | J | 6.3 | -3 | 127 | -3.5 | 4.6 | -0.3 | 3 | J |
| 2 | 402 | 5.4 | 107 | J | 7.3 | 30 | 153 | -5.2 | 2.8 | 3.3 | 3 | J |
| 3 | 394 | 5.8 | 96 | J | 8.2 | 30 | 139 | -5.3 | 4.9 | 3.7 | 1 | J |
| 4 | 376 | 6.8 | 63 | J | 7.8 | 16 | 135 | -5.2 | 5.4 | 1.4 | 2 | J |
| 5 | 385 | 6.5 | 59 | J | 7.5 | -3 | 113 | -2.8 | 6.4 | -1.6 | 2 | J |
| 6 | 393 | 6.4 | 66 | J | 7.2 | -4 | 99 | -1.0 | 6.2 | -2.0 | 3 | J |
| 7 | 367 | 6.3 | 59 | J | 7.0 | 9 | 118 | -3.0 | 5.7 | -0.7 | 3 | J |
| 8 | 370 | 5.6 | 39 | J | 7.0 | 12 | 126 | -3.7 | 5.2 | -0.5 | 3 | J |
| 9 | 345 | 6.4 | 49 | C | 7.7 | 21 | 121 | -3.6 | 6.6 | 0.3 | 1 | C |
| 10 | 359 | 5.0 | 48 | J | 7.3 | 10 | 106 | -1.9 | 6.6 | -1.4 | 2 | J |
| 11 | 345 | 5.2 | 31 | J | 6.9 | 11 | 109 | -2.2 | 6.3 | -1.2 | 1 | J |
| 12 | 347 | 5.2 | 34 | J | 7.0 | 12 | 99 | -1.1 | 6.8 | -1.2 | 1 | J |
| 13 | 344 | 5.7 | 25 | J | 6.8 | 10 | 93 | -0.3 | 6.6 | -1.2 | 1 | J |
| 14 | 345 | 4.9 | 28 | J | 6.9 | 8 | 98 | -0.9 | 6.6 | -1.2 | 1 | J |
| 15 | 354 | 5.4 | 20 | J | 6.7 | 11 | 69 | 2.1 | 5.7 | -0.4 | 2 | J |
| 16 | 336 | 6.0 | 17 | J | 6.4 | 15 | 99 | -0.9 | 6.1 | 0.2 | 1 | J |
| 17 | 341 | 5.3 | 16 | J | 6.7 | 3 | 110 | -2.3 | 6.3 | -0.8 | 1 | J |
| 18 | 336 | 5.7 | 17 | J | 6.1 | 2 | 100 | -1.0 | 5.9 | -0.5 | 1 | J |
| 19 | 341 | 5.0 | 17 | J | 6.0 | 6 | 96 | -0.6 | 5.9 | 0.2 | 1 | J |
| 20 | 345 | 4.7 | 24 | J | 5.7 | 5 | 89 | 0.1 | 5.7 | 0.3 | 0 | J |
| 21 | 346 | 5.5 | 16 | J | 5.6 | 5 | 76 | 1.3 | 5.4 | 0.5 | 1 | J |
| 22 | 331 | 7.1 | 17 | C | 5.2 | 16 | 71 | 1.6 | 4.7 | 1.6 | 0 | J |
| 23 | 327 | 6.0 | 22 | C | 5.2 | 17 | 85 | 0.4 | 4.8 | 1.7 | 1 | J |
| 24 | 328 | 4.3 | 12 | J | 5.2 | 9 | 78 | 1.0 | 4.8 | 0.9 | 1 | J |

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332

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 330 | 5.4 | 12 | J | 4.8 | 21 | 82 | 0.6 | 4.3 | 1.7 | 1 | J |
| 329 | 5.7 | 17 | C | 4.7 | 27 | 83 | 0.5 | 4.2 | 2.1 | 1 | J |
| 318 | 4.3 | 0 | C | 4.3 | 22 | 101 | -0.7 | 3.9 | 1.3 | 1 | J |
| 326 | 3.9 | 15 | J | 4.4 | 13 | 116 | -1.8 | 3.9 | 0.5 | 1 | J |
| 331 | 3.7 | 14 | J | 4.2 | 17 | 115 | -1.7 | 3.7 | 0.5 | 1 | J |
| 338 | 4.1 | 15 | J | 3.9 | 12 | 109 | -1.2 | 3.6 | -0.1 | 1 | J |
| 339 | 4.2 | 24 | J | 3.6 | 6 | 90 | 0.0 | 3.4 | -0.7 | 1 | J |
| 324 | 5.2 | 22 | C | 3.5 | 5 | 113 | -1.3 | 3.0 | -0.7 | 1 | J |
| 327 | 3.8 | 20 | J | 3.4 | -1 | 126 | -1.9 | 2.5 | -1.0 | 1 | J |
| 330 | 4.5 | 15 | J | 2.9 | 26 | 117 | -1.1 | 2.5 | 0.3 | 0 | J |
| 324 | 3.8 | 17 | J | 3.1 | 29 | 126 | -1.5 | 2.5 | 0.5 | 1 | J |
| 318 | 4.0 | 22 | J | 3.2 | 7 | 135 | -2.2 | 2.2 | -0.4 | 1 | J |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 307 | 4.7 | 0 | C | | | | | | | | |
| 311 | 5.5 | 22 | J | 3.3 | 16 | 138 | -2.4 | 2.2 | 0.5 | 0 | J |
| 308 | 9.1 | 15 | C | 2.8 | 25 | 128 | -1.5 | 2.0 | 0.9 | 1 | C |
| 307 | 11.6 | 13 | C | 1.7 | 34 | 128 | -0.7 | 1.0 | 0.7 | 1 | C |
| 310 | 10.5 | 13 | C | 2.4 | 21 | 135 | -1.5 | 1.6 | 0.8 | 0 | C |
| 308 | 7.1 | 14 | J | 3.3 | 0 | 151 | -2.8 | 1.6 | 0.0 | 1 | J |
| 312 | 9.5 | 16 | J | 2.2 | 2 | 126 | -1.1 | 1.5 | 0.1 | 1 | J |
| 309 | 9.0 | 14 | J | 2.4 | 0 | 117 | -1.0 | 2.0 | 0.1 | 1 | J |
| 306 | 8.4 | 15 | J | 2.3 | 3 | 94 | -0.1 | 1.5 | 0.1 | 2 | J |

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333

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 302 | 8.4 | 11 | J | 2.8 | 12 | 10 | 2.6 | 0.4 | 0.6 | 0 | J |
| 2 | 304 | 10.0 | 11 | J | 2.6 | 13 | 1 | 2.4 | 0.0 | 0.6 | 1 | J |
| 3 | 300 | 10.6 | 10 | J | 2.8 | 14 | 346 | 2.4 | -0.6 | 0.7 | 1 | J |
| 4 | 300 | 11.1 | 10 | J | 2.8 | 34 | 337 | 2.1 | -0.7 | 1.7 | 0 | J |
| 5 | 298 | 11.1 | 9 | J | 2.6 | 14 | 294 | 0.9 | -1.9 | 0.9 | 1 | J |
| 6 | 289 | 14.6 | 8 | C | 3.0 | 29 | 302 | 1.4 | -1.8 | 1.9 | 0 | C |
| 7 | 298 | 10.8 | 8 | J | 2.6 | 19 | 317 | 1.8 | -1.4 | 1.3 | 0 | J |
| 8 | 300 | 11.5 | 8 | J | 2.4 | 23 | 331 | 1.9 | -0.7 | 1.2 | 0 | J |
| 9 | 301 | 6.3 | 11 | J | 3.0 | 33 | 331 | 2.1 | -0.5 | 1.9 | 1 | C |
| 10 | 293 | 6.0 | 12 | J | 3.7 | 34 | 359 | 3.1 | 0.7 | 1.9 | 1 | J |
| 11 | 294 | 5.7 | 14 | J | 4.0 | 27 | 2 | 3.5 | 0.8 | 1.6 | 1 | J |
| 12 | 291 | 6.7 | 15 | J | 4.0 | 22 | 8 | 3.6 | 1.0 | 1.2 | 1 | J |
| 13 | 287 | 11.8 | 11 | J | 3.7 | -28 | 32 | 2.5 | 1.0 | -2.0 | 1 | J |
| 14 | 283 | 14.1 | 11 | J | 3.4 | -44 | 44 | 1.6 | 0.8 | -2.5 | 1 | J |
| 15 | 283 | 13.3 | 10 | J | 3.3 | -16 | 47 | 2.0 | 1.9 | -1.4 | 1 | J |
| 16 | 278 | 19.4 | 6 | C | 3.1 | 2 | 48 | 2.1 | 2.2 | -0.4 | 0 | C |
| 17 | 277 | 20.5 | 6 | C | 2.8 | 12 | 48 | 1.8 | 2.1 | 0.2 | 0 | C |
| 18 | 289 | 28.5 | 12 | C | 7.1 | 36 | 53 | 3.4 | 4.9 | 3.5 | 2 | C |
| 19 | 310 | 33.1 | 20 | J | 6.2 | -31 | 87 | 0.3 | 4.9 | -3.4 | 2 | C |
| 20 | 307 | 26.5 | 15 | J | 6.9 | -11 | 90 | 0.0 | 6.2 | -1.3 | 3 | C |
| 21 | 307 | 27.5 | 15 | J | 6.9 | 1 | 77 | 1.6 | 6.7 | 0.2 | 1 | J |
| 22 | 303 | 24.4 | 14 | J | 6.6 | -33 | 90 | 0.0 | 5.6 | -3.3 | 1 | J |
| 23 | 298 | 20.8 | 11 | J | 7.4 | -2 | 95 | -0.6 | 7.3 | 0.1 | 1 | J |
| 24 | 299 | 25.9 | 11 | J | 6.3 | 0 | 88 | 0.2 | 6.1 | 0.3 | 1 | J |

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334

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 301 | 28.0 | 11 | J | 6.8 | -27 | 85 | 0.5 | 6.1 | -2.9 | 1 | J |
| 291 | 37.8 | 15 | C | 6.7 | -12 | 84 | 0.6 | 6.0 | -1.3 | 2 | C |
| 303 | 32.1 | 12 | J | 7.0 | 10 | 73 | 2.0 | 6.5 | 0.9 | 1 | J |
| 300 | 31.3 | 15 | J | 7.0 | 22 | 80 | 1.1 | 6.4 | 1.9 | 2 | J |
| 300 | 34.7 | 20 | J | 5.9 | 6 | 85 | 0.5 | 5.4 | -0.3 | 3 | J |
| 299 | 32.9 | 19 | J | 6.3 | -23 | 80 | 1.0 | 4.9 | -3.6 | 1 | J |
| 301 | 37.8 | 20 | J | 5.6 | -11 | 78 | 1.0 | 4.4 | -2.3 | 3 | J |
| 293 | 45.5 | 16 | C | 7.2 | -23 | 81 | 1.0 | 5.2 | -4.6 | 2 | C |
| 330 | 76.0 | 40 | C | 14.3 | -16 | 84 | 1.3 | 10.9 | -7.9 | 7 | C |
| 364 | 43.7 | 61 | C | 20.2 | -1 | 101 | -2.2 | 10.0 | -4.1 | 17 | C |
| 367 | 45.7 | 66 | C | 18.2 | -16 | 278 | 2.5 | -17.4 | 1.7 | 5 | C |
| 369 | 31.0 | 60 | C | 20.9 | 0 | 264 | -2.2 | -19.1 | 7.4 | 2 | C |
| 360 | 45.5 | 57 | C | 19.1 | -1 | 266 | -1.4 | -17.0 | 5.7 | 5 | C |
| 356 | 39.6 | 52 | C | 16.1 | 42 | 286 | 3.1 | -7.4 | 13.2 | 4 | C |
| 355 | 44.0 | 53 | C | 13.1 | 50 | 270 | -0.0 | -3.7 | 7.8 | 9 | C |
| 354 | 54.7 | 44 | C | 9.5 | -2 | 257 | -1.8 | -8.0 | 1.4 | 4 | C |
| 345 | 41.4 | 47 | C | 11.2 | 2 | 244 | -4.8 | -9.7 | 2.0 | 2 | C |
| 341 | 30.6 | 44 | C | 12.6 | 22 | 253 | -3.4 | -10.5 | 5.8 | 2 | C |
| 341 | 22.0 | 50 | C | 13.5 | 25 | 258 | -2.5 | -11.4 | 6.1 | 2 | C |
| 316 | 7.9 | 239 | L | 11.0 | 48 | 235 | -4.0 | -5.6 | 7.7 | 3 | C |
| 311 | 5.8 | 160 | L | 13.4 | 7 | 99 | -2.0 | 13.0 | 1.9 | 2 | C |
| 319 | 6.2 | 187 | L | 12.2 | 18 | 100 | -2.0 | 11.1 | 4.3 | 2 | C |
| 314 | 5.6 | 205 | L | 10.9 | 17 | 96 | -1.0 | 9.9 | 3.7 | 2 | C |
| 326 | 10.2 | 91 | C | 10.6 | 2 | 99 | -1.5 | 9.9 | 0.9 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 322 | 9.8 | 77 | C | 10.7 | 28 | 113 | -3.5 | 8.0 | 5.1 | 3 | C |
| 2 | 325 | 10.1 | 74 | C | 11.5 | 38 | 124 | -5.1 | 7.4 | 7.1 | 1 | C |
| 3 | 320 | 9.0 | 66 | C | 11.6 | 45 | 136 | -5.9 | 6.0 | 8.0 | 0 | C |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 337 | 7.4 | 0 | C | | | | | | | | |
| 7 | 336 | 6.1 | 67 | C | 11.6 | -13 | 97 | -1.4 | 10.1 | -5.4 | 1 | C |
| 8 | 343 | 3.5 | 47 | C | 12.4 | -17 | 93 | -0.5 | 10.0 | -7.0 | 1 | C |
| 9 | 338 | 2.9 | 34 | C | 12.5 | -6 | 97 | -1.5 | 10.9 | -5.4 | 2 | C |
| 10 | 335 | 2.9 | 31 | C | 12.4 | -8 | 98 | -1.6 | 10.6 | -5.9 | 1 | C |
| 11 | 348 | 3.2 | 25 | C | 12.3 | -2 | 100 | -2.1 | 11.0 | -4.7 | 1 | C |
| 12 | 332 | 3.8 | 46 | C | 11.8 | 2 | 101 | -2.2 | 10.9 | -3.6 | 1 | C |
| 13 | 363 | 3.5 | 63 | C | 11.6 | -8 | 96 | -1.1 | 10.1 | -5.2 | 1 | C |
| 14 | 379 | 3.8 | 89 | C | 11.2 | -3 | 98 | -1.5 | 10.2 | -3.8 | 1 | C |
| 15 | 360 | 4.1 | 77 | C | 10.8 | -1 | 104 | -2.6 | 9.8 | -2.7 | 2 | C |
| 16 | 365 | 3.7 | 0 | C | 10.1 | -10 | 106 | -2.6 | 8.8 | -3.5 | 2 | C |
| 17 | 366 | 5.0 | 92 | C | 9.6 | -15 | 91 | -0.1 | 8.4 | -3.7 | 2 | C |
| 18 | 380 | 5.1 | 0 | C | | | | | | | | |
| 19 | 364 | 4.8 | 104 | C | 9.3 | 0 | 102 | -1.9 | 8.5 | -0.4 | 3 | C |
| 20 | 359 | 4.7 | 106 | C | 8.4 | 12 | 113 | -2.9 | 6.7 | 1.6 | 3 | C |
| 21 | 369 | 4.9 | 106 | C | 8.2 | -9 | 105 | -1.6 | 6.1 | -0.8 | 5 | C |
| 22 | 396 | 3.5 | 82 | C | 6.4 | 2 | 116 | -2.5 | 5.1 | 0.5 | 3 | C |
| 23 | 426 | 3.4 | 79 | C | 5.6 | 13 | 113 | -2.0 | 4.5 | 1.4 | 2 | C |
| 24 | 456 | 3.9 | 80 | C | 6.5 | 7 | 90 | 0.0 | 5.7 | 1.1 | 2 | C |

DEC. 2, 1979 336

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 444 | 4.1 | 86 | C | 6.5 | 6 | 98 | -0.8 | 5.6 | 0.9 | 2 | C |
| 2 | 467 | 4.2 | 91 | C | 6.5 | -19 | 72 | 1.6 | 5.0 | -1.7 | 3 | C |
| 3 | 441 | 4.1 | 77 | C | 6.3 | -16 | 99 | -0.8 | 5.1 | -1.7 | 3 | C |
| 4 | 433 | 4.1 | 59 | C | 6.5 | -12 | 102 | -1.3 | 5.8 | -1.8 | 1 | C |
| 5 | 427 | 4.2 | 53 | C | 6.5 | -9 | 104 | -1.5 | 5.9 | -1.9 | 1 | C |
| 6 | 425 | 4.3 | 51 | C | 6.2 | -38 | 93 | -0.3 | 3.8 | -4.5 | 1 | C |
| 7 | 424 | 4.7 | 63 | C | 5.7 | -39 | 113 | -1.3 | 2.3 | -3.4 | 3 | C |
| 8 | 428 | 5.2 | 61 | C | 5.4 | -44 | 119 | -1.7 | 1.8 | -4.0 | 2 | C |
| 9 | 426 | 4.7 | 48 | C | 6.1 | -6 | 102 | -1.0 | 4.2 | -2.0 | 4 | C |
| 10 | 428 | 4.9 | 42 | C | 6.5 | -35 | 121 | -2.6 | 2.8 | -4.8 | 2 | C |
| 11 | 440 | 5.8 | 31 | C | 7.1 | -24 | 98 | -0.9 | 4.9 | -4.9 | 1 | C |
| 12 | 417 | 5.9 | 49 | C | 5.5 | 11 | 114 | -2.0 | 4.6 | -0.7 | 2 | C |
| 13 | 417 | 6.2 | 42 | C | 5.3 | 11 | 96 | -0.4 | 4.5 | -0.6 | 2 | C |
| 14 | 415 | 9.7 | 25 | C | 5.8 | 34 | 105 | -1.2 | 5.0 | 1.7 | 2 | C |
| 15 | 415 | 12.1 | 19 | C | 5.4 | 32 | 97 | -0.5 | 4.9 | 1.6 | 1 | C |
| 16 | 412 | 13.2 | 17 | C | 5.6 | 23 | 99 | -0.8 | 5.2 | 1.1 | 1 | C |
| 17 | 414 | 11.8 | 21 | A | | | | | | | | |
| 18 | 397 | 12.5 | 18 | C | 5.5 | -11 | 126 | -3.0 | 4.0 | -1.3 | 2 | C |
| 19 | 398 | 11.1 | 18 | C | 5.9 | 26 | 96 | -0.5 | 5.3 | 2.3 | 1 | C |
| 20 | 398 | 11.2 | 18 | C | 6.1 | 25 | 88 | 0.2 | 5.4 | 2.5 | 1 | C |
| 21 | 395 | 10.9 | 18 | C | 6.4 | 34 | 82 | 0.7 | 4.9 | 3.5 | 2 | C |
| 22 | 334 | 9.3 | 20 | C | 6.8 | -2 | 98 | -0.9 | 6.6 | 0.1 | 1 | C |
| 23 | 343 | 9.0 | 20 | C | 6.9 | -8 | 105 | -1.8 | 6.6 | -0.5 | 1 | C |
| 24 | 336 | 9.0 | 18 | C | 6.9 | -15 | 112 | -2.4 | 6.2 | -1.3 | 1 | C |

DEC. 3, 1979 337

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 10.5 | 19 | C | 6.8 | -33 | 124 | -3.1 | 4.9 | -3.4 | 1 | C |
| 2 | 381 | 8.9 | 20 | C | 7.2 | -31 | 124 | -3.4 | 5.2 | -3.6 | 0 | C |
| 3 | 385 | 8.7 | 20 | C | 7.4 | -36 | 123 | -3.3 | 4.9 | -4.4 | 0 | C |
| 4 | 380 | 9.1 | 14 | C | 7.8 | -29 | 123 | -3.7 | 5.3 | -4.2 | 1 | C |
| 5 | 397 | 9.8 | 21 | C | 7.4 | -21 | 120 | -3.4 | 5.4 | -3.4 | 1 | C |
| 6 | 388 | 10.3 | 19 | C | 7.2 | -31 | 113 | -2.3 | 4.7 | -4.7 | 1 | C |
| 7 | 381 | 9.7 | 14 | C | 7.7 | -22 | 105 | -1.8 | 5.9 | -4.5 | 1 | C |
| 8 | 384 | 7.0 | 18 | C | 8.1 | -2 | 93 | -0.4 | 7.2 | -2.6 | 3 | C |
| 9 | 373 | 7.3 | 16 | C | 8.0 | -18 | 97 | -0.9 | 6.2 | -4.8 | 1 | C |
| 10 | 378 | 6.7 | 15 | C | 8.0 | 17 | 77 | 1.5 | 7.0 | -0.4 | 3 | C |
| 11 | 376 | 6.7 | 11 | C | 8.0 | 40 | 62 | 2.9 | 6.8 | 2.9 | 0 | C |
| 12 | 379 | 6.1 | 12 | C | 8.1 | 32 | 79 | 1.2 | 7.7 | 1.7 | 1 | C |
| 13 | 377 | 7.1 | 15 | C | 8.0 | 22 | 88 | 0.3 | 7.9 | 0.5 | 1 | C |
| 14 | 366 | 6.4 | 13 | C | 8.1 | 28 | 75 | 1.9 | 7.6 | 1.7 | 1 | C |
| 15 | 365 | 7.1 | 18 | C | 8.2 | 26 | 74 | 2.0 | 7.6 | 1.9 | 1 | C |
| 16 | 369 | 7.3 | 21 | C | 8.5 | 33 | 68 | 2.6 | 7.2 | 3.3 | 1 | C |
| 17 | 374 | 8.9 | 21 | C | 8.3 | 34 | 74 | 1.9 | 7.2 | 3.7 | 1 | C |
| 18 | 371 | 8.8 | 24 | C | 8.2 | 28 | 74 | 2.0 | 7.1 | 3.2 | 1 | C |
| 19 | 366 | 9.5 | 23 | C | 8.4 | 21 | 68 | 2.8 | 7.3 | 2.8 | 1 | C |
| 20 | 359 | 10.9 | 26 | C | 8.6 | 30 | 34 | 5.9 | 3.9 | 4.1 | 3 | C |
| 21 | 355 | 11.5 | 26 | C | 8.5 | 33 | 348 | 6.6 | -1.5 | 4.3 | 3 | C |
| 22 | 359 | 8.1 | 22 | C | 9.0 | 27 | 58 | 4.1 | 6.4 | 4.4 | 2 | C |
| 23 | 366 | 7.5 | 17 | C | 8.9 | 26 | 82 | 1.2 | 7.5 | 4.6 | 1 | C |
| 24 | 354 | 7.6 | 15 | C | 8.8 | 22 | 64 | 3.5 | 7.0 | 3.8 | 1 | C |

DEC. 4, 1979 338

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 354 | 7.9 | 16 | C | 8.7 | 13 | 60 | 4.2 | 7.1 | 2.4 | 1 | C |
| 2 | 359 | 6.8 | 22 | C | 8.6 | 6 | 65 | 3.5 | 7.5 | 1.1 | 2 | C |
| 3 | 357 | 4.5 | 21 | C | 8.8 | -23 | 70 | 2.8 | 7.5 | -3.5 | 1 | C |
| 4 | 348 | 3.8 | 21 | C | 9.0 | -34 | 70 | 2.6 | 6.6 | -5.5 | 1 | C |
| 5 | 344 | 4.3 | 38 | C | 9.2 | -44 | 65 | 2.8 | 5.1 | -7.1 | 1 | C |
| 6 | 340 | 4.0 | 16 | C | 9.4 | -48 | 60 | 3.1 | 3.9 | -7.9 | 1 | C |
| 7 | 340 | 3.7 | 13 | C | 9.5 | -61 | 41 | 3.5 | 0.9 | -8.6 | 2 | C |
| 8 | 343 | 5.8 | 17 | C | 9.2 | -53 | 66 | 2.2 | 2.7 | -8.4 | 1 | C |
| 9 | 342 | 6.1 | 13 | C | 9.2 | -57 | 61 | 2.4 | 1.7 | -8.6 | 1 | C |
| 10 | 341 | 6.6 | 17 | C | 9.2 | -53 | 56 | 3.0 | 1.8 | -8.4 | 1 | C |
| 11 | 339 | 6.1 | 14 | C | 9.2 | -64 | 55 | 2.3 | 0.3 | -8.9 | 1 | C |
| 12 | 328 | 4.7 | 0 | C | | | | | | | | |
| 13 | 337 | 7.1 | 9 | C | 9.1 | -77 | 75 | 0.6 | -0.8 | -9.0 | 0 | C |
| 14 | 340 | 8.5 | 16 | C | 8.6 | -74 | 98 | -0.3 | 0.1 | -8.5 | 1 | C |
| 15 | 336 | 7.5 | 17 | C | 8.5 | -77 | 100 | -0.3 | -0.1 | -8.2 | 2 | C |
| 16 | 338 | 7.7 | 17 | C | 8.2 | -88 | 49 | 0.2 | -1.2 | -8.1 | 1 | C |
| 17 | 335 | 7.5 | 25 | C | 7.9 | -74 | 91 | -0.0 | 1.2 | -7.5 | 2 | C |
| 18 | 351 | 3.7 | 89 | C | 7.7 | -15 | 131 | -4.8 | 5.4 | -2.4 | 1 | C |
| 19 | 329 | 7.8 | 23 | C | 7.0 | -28 | 134 | -4.2 | 4.2 | -3.4 | 1 | C |
| 20 | 325 | 7.9 | 21 | C | 7.0 | -53 | 166 | -3.8 | 1.0 | -5.1 | 3 | C |
| 21 | 322 | 7.4 | 27 | C | 6.8 | -51 | 205 | -3.7 | -1.5 | -5.2 | 2 | C |
| 22 | 327 | 7.3 | 30 | C | 6.7 | -31 | 190 | -5.6 | -0.7 | -3.5 | 1 | C |
| 23 | 330 | 6.9 | 29 | C | 6.8 | -27 | 203 | -5.5 | -2.1 | -3.3 | 1 | C |
| 24 | 324 | 7.0 | 30 | C | 6.5 | -25 | 215 | -4.8 | -3.1 | -3.0 | 1 | C |

DEC. 5, 1979 339

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305 | 8.1 | 27 | C | 6.4 | -25 | 257 | -1.3 | -5.2 | -3.0 | 1 | C |
| 2 | 333 | 8.2 | 16 | J | 7.3 | -40 | 266 | -0.4 | -5.3 | -4.8 | 1 | J |
| 3 | 323 | 8.9 | 51 | A | 7.3 | -32 | 259 | -1.1 | -5.9 | -3.7 | 2 | J |
| 4 | 324 | 7.4 | 34 | J | 6.2 | -11 | 243 | -2.5 | -5.0 | -0.8 | 3 | J |
| 5 | 325 | 7.7 | 29 | J | 5.9 | -35 | 237 | -2.5 | -4.3 | -2.7 | 2 | J |
| 6 | 325 | 7.9 | 28 | J | 6.1 | -27 | 242 | -2.4 | -5.0 | -1.7 | 2 | J |
| 7 | 328 | 7.7 | 21 | J | 6.6 | -87 | 332 | 0.3 | -1.6 | -6.0 | 2 | J |
| 8 | 323 | 7.4 | 22 | J | 6.3 | -81 | 259 | -0.2 | -2.6 | -5.4 | 2 | J |
| 9 | 318 | 8.0 | 31 | J | 5.9 | -61 | 156 | -2.5 | -0.5 | -5.1 | 2 | J |
| 10 | 312 | 8.1 | 73 | J | 5.1 | -6 | 161 | -4.4 | 1.3 | -1.0 | 2 | J |
| 11 | 313 | 7.6 | 49 | J | 5.1 | -23 | 142 | -3.3 | 1.9 | -2.6 | 2 | J |
| 12 | 312 | 8.6 | 41 | J | 5.0 | -5 | 154 | -4.3 | 1.8 | -1.1 | 1 | J |
| 13 | 308 | 7.9 | 27 | J | 5.1 | -19 | 144 | -3.5 | 2.0 | -2.2 | 2 | J |
| 14 | 305 | 7.6 | 25 | J | 5.8 | -50 | 151 | -3.0 | 0.5 | -4.4 | 2 | J |
| 15 | 309 | 8.3 | 22 | J | 5.7 | -47 | 117 | -1.6 | 2.3 | -4.5 | 2 | J |
| 16 | 309 | 8.2 | 21 | J | 5.7 | -58 | 129 | -1.8 | 1.4 | -4.9 | 2 | J |
| 17 | 305 | 7.6 | 17 | J | 5.5 | -37 | 129 | -2.5 | 2.7 | -3.4 | 2 | J |
| 18 | 313 | 11.4 | 31 | C | 4.4 | -22 | 116 | -1.6 | 3.2 | -1.7 | 2 | J |
| 19 | 316 | 9.4 | 30 | J | 5.6 | -50 | 141 | -2.6 | 2.1 | -4.1 | 2 | J |
| 20 | 324 | 9.8 | 27 | J | 5.6 | -57 | 124 | -1.7 | 2.6 | -4.6 | 1 | J |
| 21 | 317 | 9.7 | 27 | J | 5.9 | -36 | 139 | -3.1 | 2.9 | -2.8 | 3 | J |
| 22 | 316 | 10.3 | 30 | J | 5.7 | -3 | 130 | -3.5 | 4.2 | 0.1 | 2 | J |
| 23 | 313 | 12.0 | 32 | J | 5.9 | -5 | 132 | -3.9 | 4.3 | -0.1 | 1 | J |
| 24 | 326 | 10.9 | 21 | J | 6.4 | -26 | 282 | 1.1 | -5.1 | -3.2 | 2 | J |

DEC. 6, 1979 340

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 333 | 10.3 | 25 | J | 6.6 | -45 | 269 | -0.1 | -4.2 | -4.9 | 2 | J |
| 2 | 330 | 9.0 | 16 | J | 6.4 | -35 | 120 | -2.3 | 4.1 | -3.0 | 3 | J |
| 3 | 320 | 8.3 | 22 | J | 7.1 | -22 | 124 | -3.6 | 5.3 | -2.6 | 1 | J |
| 4 | 311 | 19.1 | 17 | C | 5.2 | 7 | 102 | -1.1 | 4.9 | 0.3 | 1 | C |
| 5 | 311 | 19.6 | 21 | C | 5.0 | 13 | 93 | -0.3 | 4.9 | 0.5 | 1 | C |
| 6 | 322 | 8.0 | 18 | J | 6.8 | 7 | 101 | -1.3 | 6.7 | -0.4 | 1 | J |
| 7 | 313 | 8.5 | 20 | J | 6.7 | 5 | 108 | -2.0 | 6.2 | -0.9 | 1 | J |
| 8 | 326 | 8.0 | 19 | J | 6.6 | 4 | 94 | -0.4 | 6.0 | -1.3 | 2 | J |
| 9 | 330 | 12.7 | 20 | J | 5.9 | -22 | 96 | -0.4 | 3.4 | -2.9 | 4 | J |
| 10 | 336 | 13.1 | 28 | J | 4.1 | 53 | 38 | 1.8 | 2.4 | 2.5 | 1 | J |
| 11 | 338 | 11.3 | 26 | J | 3.9 | 22 | 308 | 1.7 | -1.7 | 1.8 | 2 | J |
| 12 | 350 | 9.5 | 36 | J | 3.9 | 28 | 326 | 2.7 | -1.2 | 2.2 | 1 | J |
| 13 | 334 | 12.0 | 18 | J | 4.2 | 14 | 300 | 1.7 | -2.6 | 1.7 | 2 | J |
| 14 | 329 | 10.5 | 12 | J | 4.6 | 10 | 302 | 2.2 | -3.2 | 1.6 | 2 | J |
| 15 | 327 | 8.8 | 15 | J | 4.2 | 6 | 306 | 2.3 | -3.1 | 1.1 | 1 | J |
| 16 | 326 | 6.7 | 22 | J | 4.5 | 5 | 313 | 2.9 | -3.0 | 0.9 | 1 | J |
| 17 | 326 | 5.8 | 21 | J | 4.7 | 25 | 310 | 2.7 | -2.9 | 2.3 | 1 | J |
| 18 | 324 | 5.6 | 25 | J | 4.9 | 11 | 313 | 3.2 | -3.4 | 1.1 | 1 | J |
| 19 | 327 | 5.8 | 18 | J | 5.2 | -10 | 302 | 2.7 | -4.3 | -0.8 | 1 | J |
| 20 | 332 | 7.1 | 14 | J | 4.5 | -20 | 298 | 1.9 | -3.6 | -1.6 | 1 | J |
| 21 | 333 | 8.3 | 18 | J | 4.2 | -48 | 281 | 0.5 | -2.2 | -2.8 | 2 | J |
| 22 | 327 | 7.9 | 19 | J | 4.2 | -32 | 303 | 1.8 | -2.6 | -2.4 | 1 | J |
| 23 | 315 | 8.4 | 20 | C | 4.3 | 19 | 284 | 0.9 | -3.8 | 0.9 | 1 | C |
| 24 | 331 | 8.7 | 16 | J | 3.3 | -27 | 133 | -1.4 | 1.6 | -0.9 | 2 | J |

DEC. 7, 1979 341

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 318 | 8.5 | 16 | J | 4.0 | -49 | 282 | 0.4 | -1.8 | -2.6 | 2 | J |
| 2 | 307 | 9.3 | 14 | C | 4.3 | -36 | 282 | 0.7 | -3.1 | -2.6 | 1 | C |
| 3 | 310 | 9.7 | 15 | C | 4.4 | -30 | 268 | -0.1 | -3.7 | -2.1 | 1 | C |
| 4 | 307 | 8.7 | 13 | J | 4.1 | -8 | 292 | 1.4 | -3.4 | -0.3 | 2 | J |
| 5 | 314 | 7.8 | 19 | J | 3.8 | 13 | 288 | 1.1 | -3.3 | 1.2 | 1 | J |
| 6 | 307 | 8.4 | 15 | J | 3.7 | 25 | 285 | 0.9 | -2.9 | 2.1 | 0 | J |
| 7 | 314 | 8.9 | 15 | J | 3.4 | -20 | 261 | -0.4 | -2.9 | -0.4 | 2 | J |
| 8 | 314 | 9.5 | 16 | J | 3.4 | -50 | 194 | -2.0 | -1.1 | -2.2 | 1 | J |
| 9 | 296 | 10.9 | 18 | C | 3.7 | -7 | 303 | 1.1 | -1.7 | 0.3 | 3 | J |
| 10 | 304 | 8.7 | 14 | J | 4.4 | -28 | 312 | 2.4 | -3.2 | -1.0 | 2 | J |
| 11 | 310 | 8.9 | 17 | J | 4.8 | -17 | 288 | 1.4 | -4.5 | 0.1 | 1 | J |
| 12 | 322 | 10.4 | 27 | J | 5.6 | 6 | 292 | 2.0 | -4.6 | 2.1 | 1 | J |
| 13 | 315 | 11.4 | 27 | J | 6.1 | 7 | 300 | 2.9 | -4.6 | 2.1 | 2 | J |
| 14 | 309 | 11.4 | 25 | J | 6.5 | 9 | 320 | 4.8 | -3.6 | 2.0 | 2 | J |
| 15 | 308 | 11.5 | 19 | J | 6.0 | 20 | 326 | 4.5 | -2.6 | 2.6 | 2 | J |
| 16 | 311 | 13.4 | 28 | J | 6.7 | 4 | 318 | 4.9 | -4.3 | 1.2 | 1 | J |
| 17 | 308 | 15.1 | 13 | J | 5.9 | 17 | 313 | 3.8 | -3.9 | 2.2 | 0 | J |
| 18 | 305 | 18.6 | 17 | C | 5.9 | 16 | 319 | 4.2 | -3.5 | 1.8 | 1 | C |
| 19 | 314 | 22.7 | 17 | C | 3.7 | 26 | 303 | 0.8 | -1.2 | 0.7 | 4 | C |
| 20 | 320 | 18.3 | 17 | C | 5.6 | -7 | 143 | -3.2 | 2.4 | -0.4 | 4 | C |
| 21 | 334 | 14.0 | 23 | J | 6.0 | -11 | 286 | 1.6 | -5.5 | -1.5 | 1 | J |
| 22 | 337 | 16.3 | 28 | J | 5.2 | 3 | 306 | 2.3 | -3.2 | -0.1 | 3 | J |
| 23 | 338 | 21.4 | 22 | J | 3.9 | -4 | 347 | 3.1 | -0.7 | -0.3 | 2 | J |
| 24 | 338 | 23.4 | 21 | J | 3.9 | -12 | 317 | 2.7 | -2.4 | -1.1 | 1 | J |

DEC. 8, 1979 342

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 336 | 27.6 | 13 | J | 5.2 | -5 | 316 | 3.7 | -3.5 | -0.8 | 1 | J |
| 2 | 325 | 29.5 | 12 | C | 6.0 | -14 | 323 | 4.5 | -3.3 | -1.6 | 2 | J |
| 3 | 331 | 24.7 | 12 | J | 9.5 | -18 | 314 | 6.2 | -6.4 | -3.0 | 1 | J |
| 4 | 326 | 23.2 | 16 | J | 8.4 | -30 | 312 | 4.8 | -5.5 | -3.9 | 2 | J |
| 5 | 310 | 39.5 | 15 | J | 2.2 | -28 | 152 | -0.5 | 0.3 | -0.4 | 3 | J |
| 6 | 323 | 40.8 | 19 | C | 2.9 | -6 | 144 | -1.5 | 1.1 | -0.4 | 2 | J |
| 7 | 336 | 25.0 | 31 | J | 11.1 | 13 | 322 | 8.4 | -5.8 | 3.8 | 2 | J |
| 8 | 359 | 18.2 | 76 | C | 10.6 | 46 | 335 | 5.6 | -0.8 | 7.0 | 5 | C |
| 9 | 389 | 21.4 | 69 | J | 10.0 | 54 | 116 | -2.0 | 5.9 | 4.9 | 6 | J |
| 10 | 375 | 15.5 | 54 | C | 11.0 | 46 | 310 | 4.4 | -2.8 | 8.4 | 6 | J |
| 11 | 392 | 14.0 | 110 | C | 10.0 | 4 | 315 | 5.6 | -5.2 | 2.3 | 6 | J |
| 12 | 472 | 16.9 | 219 | J | 4.9 | 77 | 25 | 0.9 | 1.7 | 4.0 | 2 | J |
| 13 | 453 | 14.2 | 235 | J | 5.8 | -41 | 56 | 1.3 | 1.3 | -2.4 | 6 | J |
| 14 | 453 | 11.3 | 190 | J | 10.0 | -31 | 299 | 3.2 | -6.6 | -2.4 | 6 | J |
| 15 | 452 | 11.0 | 164 | J | 8.8 | -35 | 312 | 4.0 | -5.2 | -3.2 | 5 | J |
| 16 | 444 | 8.5 | 109 | J | 9.6 | -8 | 310 | 5.8 | -7.0 | -0.2 | 3 | J |
| 17 | 457 | 9.4 | 127 | J | 9.1 | -17 | 298 | 4.0 | -7.7 | -1.8 | 2 | J |
| 18 | 458 | 7.9 | 79 | J | 7.7 | 18 | 352 | 6.6 | -0.8 | 2.2 | 3 | J |
| 19 | 453 | 8.0 | 107 | J | 7.5 | -6 | 339 | 6.0 | -2.3 | -0.7 | 4 | J |
| 20 | 474 | 8.0 | 111 | J | 7.9 | -64 | 324 | 2.0 | -1.2 | -5.2 | 6 | J |
| 21 | 451 | 7.7 | 132 | J | 8.3 | -3 | 314 | 5.0 | -5.1 | -0.8 | 4 | J |
| 22 | 440 | 7.7 | 133 | J | 8.1 | -20 | 326 | 5.4 | -3.4 | -2.7 | 4 | J |
| 23 | 456 | 7.6 | 120 | J | 8.0 | -20 | 293 | 2.8 | -6.1 | -3.3 | 3 | J |
| 24 | 461 | 8.3 | 118 | J | 7.3 | 18 | 295 | 2.8 | -6.2 | 1.5 | 2 | J |

DEC. 9, 1979 343

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 457 | 5.5 | 75 | J | 7.4 | -3 | 300 | 3.4 | -5.9 | -0.9 | 3 | J |
| 2 | 459 | 4.5 | 39 | J | 6.1 | 3 | 314 | 4.2 | -4.3 | 0.0 | 1 | J |
| 3 | 459 | 4.7 | 36 | J | 6.0 | 1 | 308 | 3.6 | -4.6 | 0.0 | 1 | J |
| 4 | 473 | 4.1 | 45 | J | 5.7 | 20 | 297 | 2.3 | -4.5 | 2.0 | 2 | J |
| 5 | 470 | 4.4 | 53 | J | 5.1 | 23 | 290 | 1.5 | -3.9 | 2.2 | 2 | J |
| 6 | 426 | 4.5 | 153 | A | 5.0 | -7 | 351 | 3.5 | -0.6 | -0.4 | 3 | C |
| 7 | 447 | 4.9 | 110 | J | 4.8 | 5 | 322 | 3.5 | -2.6 | 1.0 | 2 | J |
| 8 | 450 | 4.6 | 109 | J | 4.9 | -21 | 324 | 2.9 | -2.4 | -0.8 | 3 | J |
| 9 | 443 | 4.8 | 100 | J | 4.8 | 8 | 330 | 3.4 | -1.7 | 1.1 | 3 | J |
| 10 | 453 | 4.9 | 77 | J | 5.3 | -5 | 299 | 2.4 | -4.3 | 0.9 | 2 | J |
| 11 | 461 | 4.8 | 72 | J | 5.1 | 27 | 313 | 2.4 | -1.9 | 2.5 | 3 | J |
| 12 | 454 | 4.9 | 96 | J | 5.0 | -31 | 279 | 0.5 | -3.6 | -0.9 | 3 | J |
| 13 | 424 | 3.9 | 65 | J | 4.8 | -9 | 348 | 4.4 | -1.1 | -0.4 | 2 | J |
| 14 | 411 | 4.1 | 153 | A | 4.7 | -7 | 0 | 3.5 | -0.1 | -0.4 | 3 | C |
| 15 | 433 | 4.5 | 78 | J | 4.4 | 7 | 0 | 3.5 | 0.1 | 0.4 | 3 | J |
| 16 | 433 | 5.0 | 99 | J | 4.8 | 0 | 331 | 3.2 | -1.8 | 0.3 | 3 | J |
| 17 | 426 | 4.6 | 146 | A | 5.5 | 9 | 302 | 2.6 | -4.1 | 1.2 | 2 | C |
| 18 | 421 | 4.5 | 126 | A | 5.2 | 56 | 353 | 1.2 | -0.1 | 1.7 | 5 | J |
| 19 | 426 | 4.8 | 70 | J | 5.3 | 10 | 313 | 3.4 | -3.6 | 0.8 | 2 | J |
| 20 | 437 | 5.2 | 76 | J | 5.4 | -11 | 301 | 2.5 | -4.1 | -1.1 | 2 | J |
| 21 | 428 | 5.2 | 65 | J | 5.4 | -13 | 31 | 4.0 | 2.5 | -0.9 | 2 | J |
| 22 | 407 | 5.1 | 115 | A | 5.6 | -9 | 23 | 4.6 | 2.0 | -0.6 | 2 | C |
| 23 | 417 | 5.0 | 98 | A | 5.6 | 18 | 349 | 4.8 | -1.1 | 1.4 | 2 | C |
| 24 | 417 | 7.0 | 0 | C | 5.0 | 3 | 324 | 4.0 | -2.9 | -0.1 | 1 | J |

DEC. 10, 1979 344

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 413 | 4.6 | 36 | J | 5.0 | -5 | 354 | 4.4 | -0.4 | -0.4 | 2 | J |
| 2 | 426 | 5.1 | 56 | J | 5.4 | -1 | 308 | 3.0 | -3.8 | -0.4 | 2 | J |
| 3 | 409 | 4.4 | 29 | J | 5.3 | -5 | 345 | 4.8 | -1.3 | -0.5 | 2 | J |
| 4 | 404 | 4.4 | 40 | J | 5.5 | -22 | 9 | 4.8 | 0.7 | -2.0 | 2 | J |
| 5 | 408 | 5.0 | 44 | J | 5.6 | -6 | 325 | 3.8 | -2.7 | -0.3 | 3 | J |
| 6 | 396 | 4.9 | 55 | J | 5.6 | 2 | 323 | 4.2 | -3.1 | 0.7 | 2 | J |
| 7 | 390 | 4.4 | 55 | J | 5.3 | 3 | 314 | 3.4 | -3.4 | 1.0 | 2 | J |
| 8 | 356 | 5.6 | 126 | A | 5.3 | 5 | 271 | 0.1 | -4.0 | 1.4 | 3 | C |
| 9 | 398 | 6.0 | 0 | C | 5.3 | 8 | 293 | 1.5 | -3.3 | 1.5 | 3 | C |
| 10 | 398 | 5.5 | 49 | J | 5.6 | 7 | 291 | 2.0 | -4.7 | 2.2 | 1 | J |
| 11 | 398 | 5.3 | 35 | J | 5.5 | 14 | 288 | 1.6 | -4.4 | 2.7 | 1 | J |
| 12 | | | | | | | | | | | | |
| 13 | 391 | 5.9 | 0 | C | | | | | | | | |
| 14 | 391 | 5.9 | 0 | C | 5.1 | -26 | 348 | 4.3 | -1.4 | -1.9 | 1 | C |
| 15 | 391 | 6.1 | 0 | C | 5.3 | -35 | 26 | 3.3 | 1.1 | -2.8 | 2 | C |
| 16 | 377 | 6.4 | 39 | J | 5.5 | -31 | 314 | 2.1 | -2.5 | -1.5 | 4 | J |
| 17 | 379 | 6.6 | 32 | J | 5.2 | -14 | 273 | 0.3 | -5.1 | -0.8 | 1 | J |
| 18 | 370 | 6.9 | 0 | C | 5.2 | -5 | 40 | 3.3 | 2.8 | -0.5 | 3 | C |
| 19 | 367 | 7.1 | 0 | C | 5.3 | -7 | 53 | 3.0 | 4.0 | -0.5 | 1 | C |
| 20 | 371 | 6.4 | 39 | J | 4.6 | 26 | 29 | 3.5 | 1.8 | 2.0 | 1 | J |
| 21 | 365 | 6.4 | 52 | J | 5.0 | 11 | 15 | 3.9 | 1.0 | 0.9 | 3 | J |
| 22 | 384 | 6.7 | 34 | J | 5.4 | 0 | 275 | 0.5 | -5.1 | -0.6 | 1 | J |
| 23 | 366 | 6.7 | 60 | J | 4.5 | 0 | 7 | 3.5 | 0.4 | 0.1 | 3 | J |
| 24 | 363 | 6.9 | 45 | J | 5.8 | -35 | 30 | 3.9 | 2.6 | -2.8 | 2 | J |

DEC. 11, 1979 345

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 354 | 6.4 | 79 | J | 4.1 | -12 | 3 | 3.5 | 0.3 | -0.7 | 2 | C |
| 2 | 357 | 6.5 | 68 | J | 5.4 | -1 | 9 | 4.9 | 0.8 | -0.0 | 2 | J |
| 3 | 355 | 5.9 | 48 | J | 5.3 | -13 | 14 | 4.9 | 1.3 | -1.1 | 1 | J |
| 4 | 360 | 6.2 | 50 | J | 5.8 | -29 | 34 | 4.0 | 2.6 | -2.7 | 2 | J |
| 5 | 353 | 7.0 | 0 | C | 5.9 | -9 | 331 | 4.9 | -2.8 | -0.7 | 1 | C |
| 6 | 356 | 6.9 | 0 | C | 5.9 | -4 | 285 | 1.5 | -5.4 | 0.4 | 1 | C |
| 7 | 358 | 6.2 | 42 | J | 5.6 | 3 | 295 | 2.2 | -4.6 | 1.2 | 2 | J |
| 8 | 373 | 6.0 | 26 | J | 5.5 | 8 | 268 | -0.2 | -4.8 | 1.9 | 2 | J |
| 9 | 372 | 6.3 | 26 | J | 5.8 | -5 | 262 | -0.7 | -5.2 | 1.0 | 2 | J |
| 10 | 359 | 5.9 | 30 | J | 5.5 | 13 | 290 | 1.5 | -3.6 | 2.2 | 3 | J |
| 11 | 368 | 5.6 | 26 | J | 5.5 | 6 | 272 | 0.2 | -4.6 | 2.0 | 2 | J |
| 12 | 376 | 6.0 | 33 | J | 5.4 | 31 | 241 | -1.9 | -2.6 | 3.2 | 3 | J |
| 13 | 372 | 4.8 | 24 | J | 5.4 | 24 | 261 | -0.7 | -3.9 | 3.2 | 2 | J |
| 14 | 368 | 5.5 | 27 | J | 5.3 | 30 | 271 | 0.1 | -2.9 | 2.7 | 3 | J |
| 15 | 360 | 6.7 | 43 | J | 5.3 | 51 | 334 | 2.4 | -0.6 | 3.5 | 3 | J |
| 16 | 347 | 6.3 | 44 | J | 5.9 | -28 | 331 | 3.7 | -2.3 | -2.0 | 3 | J |
| 17 | 338 | 6.2 | 30 | J | 5.8 | -36 | 353 | 4.6 | -0.8 | -3.3 | 1 | J |
| 18 | 347 | 5.7 | 52 | J | 5.1 | -47 | 342 | 3.0 | -1.1 | -3.4 | 2 | J |
| 19 | 364 | 5.9 | 32 | J | 5.3 | -44 | 288 | 1.0 | -3.0 | -3.2 | 3 | J |
| 20 | 374 | 6.1 | 26 | J | 5.3 | -11 | 266 | -0.3 | -4.6 | -1.2 | 2 | J |
| 21 | 373 | 6.1 | 23 | J | 5.1 | 1 | 256 | -1.2 | -4.6 | -0.4 | 2 | J |
| 22 | 368 | 6.1 | 27 | J | 4.9 | -6 | 267 | -0.2 | -4.1 | -1.0 | 2 | J |
| 23 | 381 | 5.9 | 27 | J | 5.2 | -29 | 257 | -1.0 | -4.0 | -3.1 | 1 | J |
| 24 | 378 | 6.3 | 28 | J | 4.8 | 1 | 251 | -1.4 | -4.0 | -0.5 | 2 | J |

DEC. 12, 1979 346

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 366 | 6.1 | 38 | J | 4.7 | 6 | 278 | 0.5 | -3.4 | -0.1 | 3 | J |
| 2 | 356 | 6.3 | 41 | J | 4.9 | -32 | 308 | 2.4 | -2.8 | -2.7 | 2 | J |
| 3 | 358 | 5.8 | 32 | J | 4.9 | -40 | 285 | 0.9 | -3.3 | -3.2 | 1 | J |
| 4 | 347 | 4.9 | 60 | J | 5.3 | -36 | 335 | 3.8 | -1.8 | -3.0 | 1 | J |
| 5 | 352 | 5.1 | 54 | J | 4.4 | -24 | 339 | 3.2 | -1.3 | -1.4 | 2 | J |
| 6 | 369 | 5.9 | 74 | A | | | | | | | | |
| 7 | 382 | 6.4 | 30 | J | 4.5 | -12 | 248 | -1.5 | -3.7 | -0.1 | 2 | J |
| 8 | 375 | 6.5 | 25 | J | 4.4 | -35 | 268 | -0.1 | -3.9 | -1.5 | 1 | J |
| 9 | 372 | 6.5 | 31 | J | 4.2 | -48 | 265 | -0.2 | -2.9 | -1.9 | 2 | C |
| 10 | 362 | 6.5 | 68 | A | 3.9 | -36 | 244 | -1.2 | -2.9 | -1.2 | 1 | C |
| 11 | 366 | 6.2 | 69 | A | 3.5 | -60 | 244 | -0.6 | -1.7 | -1.8 | 2 | C |
| 12 | 364 | 6.5 | 62 | A | 3.4 | -12 | 238 | -1.6 | -2.6 | 0.1 | 1 | C |
| 13 | 360 | 6.5 | 65 | A | 3.6 | -32 | 237 | -1.4 | -2.6 | -1.1 | 2 | C |
| 14 | 358 | 6.7 | 63 | A | 3.4 | -4 | 231 | -1.6 | -2.0 | 0.2 | 2 | C |
| 15 | 351 | 6.7 | 70 | A | 3.6 | 39 | 208 | -2.4 | -0.9 | 2.4 | 1 | C |
| 16 | 342 | 6.9 | 77 | A | 3.0 | 58 | 231 | -0.7 | -0.7 | 2.0 | 2 | C |
| 17 | 334 | 7.2 | 80 | A | 2.2 | -3 | 307 | 0.4 | -0.5 | 0.0 | 2 | C |
| 18 | 329 | 7.9 | 80 | A | 2.6 | -88 | 358 | 0.1 | -0.1 | -2.5 | 1 | C |
| 19 | 339 | 7.0 | 0 | C | 2.9 | -80 | 205 | -0.4 | -0.1 | -2.7 | 1 | C |
| 20 | 336 | 6.6 | 0 | C | 2.9 | -69 | 159 | -0.9 | 0.5 | -2.5 | 1 | C |
| 21 | 336 | 6.4 | 0 | C | 2.4 | -52 | 253 | -0.3 | -1.0 | -1.7 | 1 | C |
| 22 | 332 | 6.6 | 0 | C | 1.9 | -19 | 265 | -0.1 | -0.7 | -0.4 | 2 | C |
| 23 | 329 | 6.8 | 0 | C | 2.4 | 64 | 56 | 0.5 | 0.5 | 2.1 | 1 | C |
| 24 | 329 | 6.8 | 0 | C | 2.8 | 45 | 354 | 1.8 | -0.5 | 1.8 | 1 | C |

DEC. 13, 1979 347

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 326 | 6.8 | 0 | C | 2.9 | 11 | 307 | 1.6 | -2.2 | 0.2 | 1 | C |
| 2 | 320 | 7.1 | 0 | C | 3.1 | -5 | 318 | 2.1 | -1.8 | -0.4 | 1 | C |
| 3 | 319 | 7.1 | 0 | C | 3.1 | 1 | 302 | 1.3 | -2.1 | -0.1 | 2 | C |
| 4 | 317 | 7.3 | 0 | C | 3.5 | -48 | 280 | 0.4 | -2.2 | -2.4 | 1 | C |
| 5 | 313 | 7.6 | 0 | C | 3.1 | 0 | 243 | -0.5 | -1.0 | 0.1 | 3 | C |
| 6 | 312 | 7.7 | 0 | C | 3.6 | -50 | 241 | -1.1 | -2.3 | -2.4 | 0 | C |
| 7 | 314 | 8.1 | 0 | C | 3.7 | -50 | 277 | 0.2 | -2.2 | -1.9 | 2 | C |
| 8 | 318 | 8.6 | 0 | C | 3.8 | -26 | 261 | -0.5 | -3.4 | -0.8 | 1 | C |
| 9 | 317 | 8.8 | 0 | C | 3.5 | 31 | 256 | -0.6 | -1.9 | 2.1 | 2 | C |
| 10 | 315 | 8.8 | 0 | C | 3.5 | 37 | 262 | -0.3 | -1.7 | 2.3 | 2 | C |
| 11 | 314 | 8.6 | 0 | C | 4.1 | -29 | 248 | -1.3 | -3.6 | -1.0 | 1 | C |
| 12 | | | | | | | | | | | | |
| 13 | 309 | 8.5 | 0 | C | 3.7 | -66 | 295 | 0.6 | -2.1 | -2.9 | 0 | C |
| 14 | 309 | 8.5 | 0 | C | 3.4 | -71 | 293 | 0.4 | -1.6 | -2.9 | 0 | C |
| 15 | 305 | 9.9 | 0 | C | 2.4 | 0 | 309 | 1.5 | -1.8 | 0.3 | 1 | C |
| 16 | 310 | 10.1 | 0 | C | 2.4 | 2 | 305 | 1.3 | -1.9 | 0.3 | 1 | C |
| 17 | 305 | 12.6 | 0 | C | 1.6 | -1 | 318 | 1.0 | -0.9 | 0.0 | 1 | C |
| 18 | 298 | 15.7 | 0 | C | 2.6 | -41 | 296 | 0.8 | -1.6 | -1.5 | 1 | C |
| 19 | 283 | 14.1 | 0 | C | 3.8 | -52 | 270 | -0.0 | -2.2 | -3.0 | 1 | C |
| 20 | 283 | 13.8 | 0 | C | 3.6 | -52 | 201 | -1.9 | -0.5 | -2.6 | 1 | C |
| 21 | 292 | 13.0 | 0 | C | 4.8 | -25 | 173 | -4.1 | 0.7 | -1.9 | 2 | C |
| 22 | 280 | 20.9 | 26 | A | 6.0 | -27 | 177 | -5.3 | 0.7 | -2.7 | 0 | C |
| 23 | 283 | 18.9 | 27 | A | 5.2 | -24 | 179 | -4.7 | 0.4 | -2.1 | 1 | C |
| 24 | 285 | 18.4 | 32 | A | 4.8 | -18 | 170 | -4.4 | 1.0 | -1.3 | 1 | C |

DEC. 14, 1979 348

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 279 | 17.7 | 37 | A | 3.6 | -6 | 165 | -3.3 | 0.9 | -0.2 | 1 | C |
| 2 | 383 | 6.8 | 133 | C | 4.1 | 43 | 202 | -2.6 | -1.3 | 2.5 | 1 | C |
| 3 | 278 | 15.9 | 37 | A | 4.9 | 41 | 184 | -3.5 | -0.4 | 3.0 | 2 | C |
| 4 | 278 | 15.7 | 45 | A | 6.0 | 11 | 160 | -5.5 | 2.0 | 1.2 | 1 | C |
| 5 | 288 | 14.7 | 38 | A | 6.0 | 8 | 154 | -5.3 | 2.7 | 0.7 | 1 | C |
| 6 | 289 | 14.1 | 34 | A | 5.1 | 7 | 147 | -4.2 | 2.8 | 0.3 | 1 | C |
| 7 | 288 | 12.9 | 53 | A | 6.9 | -3 | 141 | -5.3 | 4.2 | -1.1 | 1 | C |
| 8 | 288 | 13.1 | 56 | A | 7.2 | 3 | 144 | -5.8 | 4.2 | -0.5 | 1 | C |
| 9 | 280 | 14.4 | 0 | C | 7.1 | 3 | 142 | -5.5 | 4.2 | -0.7 | 2 | C |
| 10 | 278 | 14.3 | 0 | C | 6.6 | 0 | 138 | -4.6 | 4.1 | -1.2 | 2 | C |
| 11 | 284 | 19.5 | 36 | A | 6.1 | 26 | 129 | -3.3 | 4.6 | 1.3 | 2 | C |
| 12 | 279 | 12.2 | 62 | A | 7.1 | 14 | 141 | -5.3 | 4.6 | 0.6 | 1 | C |
| 13 | 299 | 9.1 | 86 | A | 7.3 | 44 | 113 | -2.0 | 5.7 | 3.7 | 1 | C |
| 14 | 319 | 10.7 | 66 | A | 7.3 | 38 | 117 | -2.5 | 5.8 | 3.2 | 1 | C |
| 15 | 347 | 10.3 | 86 | A | 7.6 | 34 | 109 | -2.0 | 6.1 | 3.0 | 2 | C |
| 16 | 364 | 9.2 | 111 | A | 8.2 | 49 | 56 | 2.9 | 5.0 | 5.4 | 2 | C |
| 17 | 376 | 8.2 | 172 | A | 7.9 | -2 | 147 | -4.8 | 3.1 | -0.4 | 5 | C |
| 18 | 375 | 7.8 | 183 | A | 8.8 | -38 | 176 | -6.1 | 0.4 | -4.7 | 4 | C |
| 19 | 361 | 6.3 | 172 | A | 7.5 | 2 | 144 | -5.1 | 3.7 | 0.3 | 3 | C |
| 20 | 386 | 7.0 | 114 | C | 8.0 | 36 | 126 | -3.6 | 4.6 | 4.8 | 2 | C |
| 21 | 391 | 5.8 | 98 | C | 9.4 | 50 | 108 | -1.7 | 4.5 | 7.3 | 3 | C |
| 22 | 401 | 6.3 | 107 | C | 9.3 | 44 | 86 | 0.4 | 5.5 | 7.3 | 2 | C |
| 23 | 406 | 6.5 | 101 | C | 9.0 | 37 | 89 | 0.2 | 6.0 | 6.3 | 2 | C |
| 24 | 385 | 5.9 | 107 | C | 9.6 | 22 | 119 | -3.9 | 6.3 | 4.2 | 4 | C |

DEC. 15, 1979 349

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 386 | 5.5 | 121 | C | 9.9 | 7 | 131 | -6.4 | 7.1 | 2.2 | 1 | C |
| 2 | 414 | 4.3 | 135 | C | 11.0 | 19 | 106 | -2.6 | 9.1 | 4.5 | 3 | C |
| 3 | 376 | 4.7 | 114 | C | 11.6 | -23 | 134 | -7.3 | 7.9 | -3.9 | 2 | C |
| 4 | 375 | 4.6 | 132 | C | 11.1 | -47 | 153 | -6.7 | 3.5 | -8.0 | 1 | C |
| 5 | 407 | 4.8 | 0 | C | 10.3 | -48 | 156 | -6.2 | 2.5 | -7.8 | 0 | C |
| 6 | 375 | 5.2 | 88 | C | 10.4 | 9 | 115 | -4.4 | 9.3 | 0.6 | 1 | C |
| 7 | 358 | 4.8 | 72 | C | 10.3 | -10 | 129 | -6.3 | 7.4 | -3.0 | 2 | C |
| 8 | 347 | 4.7 | 61 | C | 10.6 | -32 | 138 | -6.6 | 4.6 | -6.7 | 1 | C |
| 9 | 361 | 6.3 | 83 | C | 9.2 | -34 | 125 | -4.0 | 4.5 | -6.0 | 3 | C |
| 10 | 354 | 6.9 | 82 | C | 9.0 | -26 | 117 | -3.5 | 5.7 | -5.4 | 2 | C |
| 11 | 351 | 6.8 | 93 | C | 8.8 | 3 | 122 | -4.4 | 7.1 | -1.5 | 2 | C |
| 12 | 348 | 7.8 | 77 | C | 8.6 | 17 | 119 | -3.8 | 7.3 | 0.6 | 1 | C |
| 13 | 339 | 7.6 | 0 | C | | | | | | | | |
| 14 | 344 | 7.7 | 72 | C | 8.3 | 14 | 124 | -4.1 | 6.2 | 0.7 | 3 | C |
| 15 | 362 | 7.7 | 74 | C | 8.2 | 24 | 93 | -0.4 | 6.2 | 1.7 | 5 | C |
| 16 | 349 | 8.2 | 67 | C | 7.9 | 52 | 110 | -1.6 | 5.1 | 5.6 | 1 | C |
| 17 | 335 | 7.4 | 55 | C | 8.2 | -44 | 143 | -4.5 | 3.1 | -5.6 | 1 | C |
| 18 | 340 | 7.2 | 51 | C | 8.4 | -48 | 136 | -3.9 | 3.8 | -6.1 | 2 | C |
| 19 | 327 | 7.4 | 46 | C | 8.7 | -52 | 137 | -3.8 | 3.9 | -6.5 | 1 | C |
| 20 | 334 | 7.4 | 50 | C | 8.2 | -14 | 122 | -3.6 | 6.0 | -1.2 | 4 | C |
| 21 | 345 | 8.8 | 53 | C | 8.1 | 3 | 132 | -3.9 | 4.3 | 0.8 | 5 | C |
| 22 | 357 | 8.5 | 45 | C | 9.2 | 44 | 105 | -1.7 | 5.2 | 7.2 | 2 | C |
| 23 | 351 | 8.5 | 0 | C | | | | | | | | |
| 24 | 355 | 7.3 | 35 | C | 7.5 | -47 | 132 | -3.3 | 4.6 | -4.8 | 1 | C |

DEC. 16, 1979 350

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 349 | 7.3 | 32 | C | 7.1 | -28 | 134 | -3.0 | 3.3 | -1.7 | 5 | C |
| 2 | 340 | 7.2 | 33 | C | 6.6 | 8 | 139 | -4.8 | 4.0 | 1.4 | 1 | C |
| 3 | 345 | 6.5 | 28 | C | 6.9 | 8 | 156 | -6.2 | 2.7 | 1.2 | 1 | C |
| 4 | 365 | 6.5 | 34 | C | 6.7 | -43 | 165 | -4.3 | 1.3 | -4.1 | 3 | C |
| 5 | 377 | 5.5 | 30 | C | 7.4 | -61 | 238 | -1.8 | -3.1 | -5.8 | 2 | C |
| 6 | 393 | 5.1 | 40 | C | 7.3 | -67 | 137 | -1.6 | 1.0 | -5.4 | 4 | C |
| 7 | 397 | 5.7 | 38 | C | 7.4 | 37 | 102 | -1.1 | 5.5 | 3.0 | 3 | C |
| 8 | 410 | 6.8 | 33 | C | 7.5 | 51 | 90 | -0.0 | 5.6 | 4.7 | 1 | C |
| 9 | 398 | 6.7 | 40 | C | 7.2 | 21 | 110 | -2.1 | 6.4 | 0.9 | 2 | C |
| 10 | 381 | 7.0 | 39 | C | 7.2 | 10 | 119 | -3.2 | 5.9 | -0.4 | 2 | C |
| 11 | 384 | 7.0 | 38 | C | 7.0 | 3 | 119 | -3.2 | 5.7 | -1.1 | 2 | C |
| 12 | 395 | 7.7 | 42 | C | 6.7 | 19 | 114 | -2.2 | 5.2 | 0.6 | 3 | C |
| 13 | 393 | 8.5 | 46 | C | 6.1 | 22 | 125 | -2.9 | 4.5 | 1.1 | 3 | C |
| 14 | 403 | 8.5 | 52 | C | 5.5 | -9 | 119 | -1.9 | 3.3 | -1.3 | 3 | C |
| 15 | 404 | 8.4 | 48 | C | 5.9 | -18 | 99 | -0.8 | 4.8 | -2.5 | 2 | C |
| 16 | 405 | 9.8 | 72 | C | 4.2 | 11 | 173 | -2.2 | 0.3 | 0.4 | 3 | C |
| 17 | 411 | 10.5 | 77 | C | 6.1 | 13 | 160 | -4.6 | 1.7 | 1.0 | 3 | C |
| 18 | 420 | 10.2 | 71 | C | 5.2 | 46 | 149 | -1.7 | 1.0 | 2.0 | 4 | C |
| 19 | 417 | 9.8 | 67 | C | 5.6 | -19 | 196 | -2.2 | -0.6 | -0.8 | 5 | C |
| 20 | 412 | 9.9 | 71 | C | 5.8 | 6 | 141 | -2.9 | 2.3 | 0.6 | 4 | C |
| 21 | 409 | 9.7 | 72 | C | 5.2 | 55 | 128 | -1.2 | 1.1 | 2.9 | 3 | C |
| 22 | 408 | 9.3 | 69 | C | 5.5 | -42 | 130 | -1.9 | 2.7 | -2.3 | 3 | C |
| 23 | 411 | 9.3 | 70 | C | 5.4 | -26 | 104 | -0.9 | 3.8 | -1.1 | 3 | C |
| 24 | 416 | 9.2 | 65 | C | 5.9 | -34 | 95 | -0.3 | 4.0 | -1.8 | 3 | C |

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12/17/79 – 12/24/79

DEC. 17, 1979

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 8.7 | 63 | C | 6.0 | -17 | 118 | -2.2 | 4.3 | -0.7 | 3 | C |
| 2 | 407 | 8.0 | 64 | C | 6.3 | -5 | 88 | 0.2 | 5.0 | 0.2 | 3 | C |
| 3 | 416 | 7.0 | 86 | C | 7.3 | -5 | 134 | -2.6 | 2.8 | -0.1 | 6 | C |
| 4 | 421 | 6.1 | 78 | C | 7.3 | -26 | 136 | -4.3 | 4.3 | -2.9 | 2 | C |
| 5 | 425 | 6.2 | 87 | C | 6.6 | -17 | 126 | -2.9 | 4.0 | -1.6 | 3 | C |
| 6 | 447 | 7.1 | 70 | J | 7.2 | 3 | 84 | 0.7 | 6.5 | -0.3 | 3 | J |
| 7 | 419 | 6.6 | 59 | J | 7.1 | -32 | 151 | -4.5 | 2.0 | -3.6 | 3 | J |
| 8 | 417 | 6.9 | 70 | J | 6.8 | -31 | 144 | -4.2 | 2.4 | -3.6 | 3 | J |
| 9 | 414 | 6.9 | 63 | J | 6.6 | 3 | 142 | -4.5 | 3.5 | -0.5 | 3 | J |
| 10 | 415 | 6.5 | 48 | J | 6.5 | 15 | 135 | -3.6 | 3.8 | 0.4 | 4 | J |
| 11 | 424 | 6.1 | 57 | C | 6.3 | 42 | 114 | -1.7 | 4.7 | 2.8 | 2 | C |
| 12 | 425 | 5.4 | 63 | C | 6.2 | 19 | 103 | -1.2 | 5.3 | 0.6 | 3 | C |
| 13 | 398 | 5.7 | 58 | C | 6.3 | 3 | 139 | -3.7 | 3.2 | -0.5 | 4 | C |
| 14 | 399 | 5.2 | 53 | C | 6.7 | -23 | 133 | -3.9 | 3.7 | -3.2 | 2 | C |
| 15 | 428 | 5.9 | 47 | J | 6.0 | -13 | 113 | -2.0 | 4.5 | -1.8 | 3 | J |
| 16 | 429 | 6.4 | 69 | J | 6.0 | -14 | 123 | -2.3 | 3.4 | -1.4 | 4 | J |
| 17 | 438 | 7.2 | 67 | J | 6.0 | -47 | 113 | -1.0 | 2.3 | -2.9 | 5 | J |
| 18 | 436 | 7.1 | 71 | J | 5.6 | -49 | 246 | -1.2 | -2.6 | -3.4 | 3 | J |
| 19 | 408 | 5.8 | 53 | C | 6.1 | -14 | 130 | -3.5 | 4.2 | -1.1 | 2 | C |
| 20 | 408 | 5.5 | 54 | C | 5.5 | -23 | 139 | -3.4 | 3.2 | -1.6 | 2 | C |
| 21 | 402 | 5.6 | 51 | C | 5.6 | -18 | 162 | -4.0 | 1.5 | -1.2 | 3 | C |
| 22 | 415 | 5.4 | 49 | C | 5.8 | -45 | 133 | -2.3 | 3.0 | -2.9 | 3 | C |
| 23 | 419 | 5.4 | 45 | C | 5.7 | -38 | 135 | -2.6 | 3.0 | -2.3 | 3 | J |
| 24 | 399 | 5.4 | 45 | C | 6.0 | -19 | 150 | -3.9 | 2.4 | -1.1 | 3 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 404 | 5.4 | 43 | C | 6.1 | -33 | 155 | -3.9 | 2.2 | -2.4 | 3 | C |
| 403 | 5.2 | 39 | C | 6.0 | -5 | 126 | -3.0 | 4.3 | 0.1 | 2 | C |
| 398 | 5.3 | 43 | C | 5.9 | -4 | 135 | -3.8 | 3.8 | -0.0 | 2 | C |
| 402 | 5.5 | 49 | C | 5.8 | 11 | 145 | -4.3 | 2.9 | 1.1 | 2 | C |
| 405 | 4.9 | 53 | C | 5.6 | -13 | 134 | -3.2 | 3.3 | -1.2 | 2 | C |
| 401 | 5.4 | 45 | C | 6.1 | 16 | 129 | -3.3 | 4.1 | 1.1 | 2 | C |
| 406 | 4.9 | 33 | J | 6.0 | 13 | 124 | -3.1 | 4.7 | 0.6 | 2 | J |
| 387 | 5.4 | 64 | J | 6.0 | 15 | 176 | -5.1 | 0.6 | 1.3 | 3 | J |
| 397 | 5.1 | 56 | J | 5.6 | 10 | 140 | -3.5 | 3.1 | 0.1 | 3 | J |
| 407 | 5.1 | 40 | J | 5.8 | -17 | 109 | -1.6 | 4.2 | -2.6 | 2 | J |
| 402 | 4.7 | 39 | J | 5.8 | 19 | 122 | -2.8 | 4.7 | 0.7 | 2 | J |
| 410 | 5.2 | 48 | J | 5.9 | -17 | 90 | 0.0 | 4.8 | -2.8 | 2 | J |
| 408 | 4.5 | 37 | J | 5.0 | -58 | 159 | -2.5 | 0.0 | -4.3 | 1 | J |
| 396 | 4.7 | 64 | J | 5.2 | -13 | 144 | -3.6 | 2.4 | -1.5 | 2 | J |
| 399 | 4.6 | 59 | J | 5.0 | 7 | 139 | -3.4 | 3.0 | 0.2 | 2 | J |
| 403 | 4.5 | 63 | J | 5.0 | 3 | 142 | -3.3 | 2.6 | 0.0 | 3 | J |
| 402 | 4.5 | 59 | J | 5.0 | -9 | 178 | -4.1 | 0.1 | -0.7 | 3 | J |
| 401 | 4.8 | 40 | C | 5.0 | -36 | 165 | -3.8 | 1.1 | -2.8 | 1 | J |
| 417 | 3.7 | 58 | C | 5.3 | 29 | 147 | -3.2 | 1.9 | 2.3 | 3 | J |
| 417 | 5.2 | 34 | J | 5.4 | 27 | 115 | -1.7 | 3.4 | 2.5 | 3 | J |
| 427 | 4.1 | 69 | J | 6.0 | -31 | 164 | -4.8 | 1.8 | -2.7 | 1 | J |
| 406 | 4.3 | 48 | C | 5.3 | -29 | 159 | -4.2 | 2.1 | -2.2 | 1 | J |
| 410 | 3.1 | 31 | J | 5.4 | -12 | 139 | -3.8 | 3.5 | -0.4 | 2 | J |
| 409 | 3.3 | 35 | J | 5.5 | -7 | 140 | -4.0 | 3.4 | 0.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 402 | 3.1 | 37 | J | 5.3 | 2 | 144 | -4.0 | 2.8 | 0.7 | 2 | J |
| 2 | 423 | 4.6 | 39 | J | 4.7 | -32 | 179 | -3.4 | 0.4 | -2.1 | 2 | J |
| 3 | 409 | 4.4 | 41 | C | 4.9 | -31 | 172 | -4.0 | 0.8 | -2.4 | 1 | C |
| 4 | 401 | 3.6 | 97 | A | 4.8 | -18 | 179 | -4.6 | 0.1 | -1.4 | 0 | C |
| 5 | 390 | 3.8 | 99 | A | 4.9 | -51 | 134 | -2.1 | 2.1 | -3.8 | 1 | J |
| 6 | 398 | 3.7 | 99 | A | 5.0 | -28 | 148 | -2.8 | 1.6 | -1.9 | 3 | J |
| 7 | 414 | 3.6 | 31 | C | 5.3 | 21 | 103 | -1.1 | 4.9 | 1.2 | 1 | J |
| 8 | 399 | 4.1 | 33 | J | 4.9 | -27 | 176 | -4.1 | -0.1 | -2.1 | 2 | J |
| 9 | 399 | 3.6 | 43 | J | 4.8 | -3 | 151 | -3.9 | 2.1 | -0.7 | 2 | J |
| 10 | 390 | 3.7 | 33 | C | 5.2 | 26 | 131 | -2.8 | 3.6 | 1.3 | 2 | C |
| 11 | 391 | 3.5 | 33 | C | 5.0 | 40 | 113 | -1.4 | 3.9 | 2.1 | 2 | C |
| 12 | 408 | 3.3 | 28 | J | 5.0 | 59 | 103 | -0.5 | 2.9 | 3.1 | 2 | J |
| 13 | 405 | 3.0 | 29 | J | 5.2 | 46 | 114 | -1.3 | 3.5 | 2.7 | 2 | J |
| 14 | 386 | 2.9 | 32 | C | 5.0 | 20 | 124 | -2.6 | 4.0 | 1.0 | 1 | J |
| 15 | 371 | 3.3 | 28 | C | 5.1 | -17 | 146 | -3.6 | 2.2 | -1.6 | 2 | C |
| 16 | 385 | 2.8 | 25 | J | 4.8 | -17 | 149 | -3.2 | 1.8 | -1.3 | 3 | J |
| 17 | 397 | 2.6 | 32 | J | 4.8 | -3 | 126 | -2.3 | 3.1 | -0.3 | 3 | J |
| 18 | 383 | 2.5 | 33 | J | 4.7 | -4 | 143 | -3.0 | 2.3 | -0.2 | 3 | J |
| 19 | 394 | 2.3 | 38 | J | 4.7 | 6 | 125 | -2.5 | 3.5 | 0.7 | 2 | J |
| 20 | 392 | 2.3 | 41 | J | 4.7 | 2 | 122 | -2.2 | 3.5 | 0.6 | 2 | J |
| 21 | 402 | 2.4 | 34 | J | 4.5 | -56 | 149 | -2.1 | 1.8 | -3.3 | 1 | J |
| 22 | 396 | 2.2 | 38 | J | 4.4 | -40 | 152 | -2.7 | 1.9 | -2.3 | 2 | J |
| 23 | 383 | 1.8 | 37 | J | 5.0 | -11 | 122 | -2.5 | 4.1 | -0.1 | 1 | J |
| 24 | 352 | 1.7 | 49 | C | 5.1 | -1 | 141 | -3.9 | 3.1 | 0.5 | 1 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 347 | 1.5 | 43 | C | 5.1 | -10 | 141 | -3.9 | 3.3 | -0.2 | 1 | C |
| 360 | 1.8 | 49 | C | 5.1 | -19 | 135 | -3.4 | 3.6 | -1.1 | 0 | C |
| 339 | 1.4 | 41 | C | 5.3 | -20 | 144 | -4.0 | 3.0 | -1.4 | 1 | C |
| 337 | 2.0 | 39 | C | 5.2 | -11 | 135 | -3.3 | 3.4 | -0.7 | 2 | C |
| 332 | 3.3 | 19 | C | 4.9 | -17 | 136 | -3.4 | 3.2 | -1.5 | 1 | J |
|  |  |  |  | 5.0 | -28 | 145 | -3.5 | 2.3 | -2.5 | 1 | J |
| 327 | 3.7 | 16 | C | 5.3 | -18 | 105 | -1.2 | 4.4 | -2.1 | 2 | J |
| 335 | 4.1 | 17 | C | 5.7 | -24 | 115 | -2.1 | 4.0 | -2.9 | 2 | J |
| 355 | 1.7 | 18 | J | 5.7 | -34 | 125 | -2.7 | 3.1 | -3.9 | 1 | J |
| 330 | 3.0 | 27 | C | 5.9 | -36 | 127 | -2.9 | 3.0 | -4.2 | 0 | C |
| 317 | 3.4 | 13 | C | 6.0 | -37 | 131 | -3.2 | 2.7 | -4.4 | 1 | C |
| 344 | 3.1 | 18 | J | 5.7 | -39 | 131 | -2.9 | 2.4 | -4.2 | 1 | J |
| 341 | 2.6 | 32 | J | 5.6 | -36 | 152 | -4.0 | 1.4 | -3.6 | 0 | J |
| 355 | 1.7 | 29 | J | 6.3 | -53 | 121 | -2.0 | 2.4 | -5.5 | 0 | J |
| 345 | 2.1 | 19 | J | 6.1 | -55 | 129 | -2.2 | 2.1 | -5.3 | 1 | J |
| 352 | 1.5 | 32 | J | 6.0 | -57 | 146 | -2.7 | 1.5 | -5.1 | 0 | J |
| 335 | 1.4 | 39 | L | 5.9 | -57 | 154 | -2.9 | 1.3 | -5.0 | 0 | J |
| 329 | 1.4 | 38 | L | 5.7 | -55 | 169 | -3.2 | 0.8 | -4.6 | 1 | J |
| 346 | 2.1 | 22 | J | 5.4 | -52 | 167 | -3.2 | 1.1 | -4.2 | 0 | J |
| 342 | 2.4 | 25 | J | 5.1 | -42 | 159 | -3.4 | 1.7 | -3.1 | 1 | J |
| 334 | 2.5 | 21 | J | 4.9 | -40 | 146 | -3.0 | 2.5 | -2.7 | 1 | J |
| 325 | 3.1 | 24 | J | 4.4 | -38 | 137 | -2.4 | 2.7 | -2.1 | 1 | J |
| 326 | 3.3 | 20 | J | 4.3 | -22 | 135 | -2.3 | 2.5 | -0.8 | 2 | J |
| 32[illegible] | 3.8 | 18 | J | 4.4 | -20 | 146 | -2.3 | 1.7 | -0.7 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 307 | 2.4 | 24 | J | 4.2 | 7 | 167 | -3.9 | 0.8 | 0.6 | 1 | J |
| 2 | 305 | 3.6 | 16 | J | 4.7 | -9 | 150 | -3.8 | 2.3 | -0.3 | 2 | J |
| 3 | 293 | 5.3 | 23 | C | 4.6 | 6 | 165 | -4.4 | 1.1 | 0.6 | 1 | C |
| 4 | 289 | 5.4 | 22 | C | 4.3 | -5 | 192 | -4.0 | -0.8 | -0.4 | 1 | J |
| 5 | 291 | 2.7 | 18 | J | 4.6 | 8 | 198 | -4.3 | -1.4 | 0.6 | 1 | J |
| 6 | 286 | 5.8 | 20 | C | 4.5 | -6 | 209 | -3.8 | -2.1 | -0.3 | 1 | J |
| 7 | 282 | 5.8 | 21 | C | 4.5 | -22 | 195 | -3.9 | -1.2 | -1.5 | 1 | C |
| 8 | 281 | 5.8 | 23 | C | 4.6 | -15 | 196 | -4.2 | -1.4 | -0.9 | 1 | C |
| 9 | 287 | 5.9 | 22 | C | 4.7 | -17 | 180 | -4.2 | -0.2 | -1.3 | 2 | C |
| 10 | 291 | 6.3 | 16 | C | 5.1 | -29 | 156 | -4.0 | 1.2 | -2.8 | 1 | C |
| 11 | 293 | 6.6 | 10 | C | 5.4 | -32 | 148 | -3.9 | 1.7 | -3.3 | 0 | C |
| 12 | 307 | 6.7 | 13 | J | 5.5 | -51 | 154 | -3.0 | 0.6 | -4.3 | 1 | J |
| 13 | 306 | 6.2 | 14 | J | 5.6 | -46 | 144 | -3.1 | 1.5 | -4.4 | 1 | J |
| 14 | 305 | 6.4 | 13 | J | 5.4 | -56 | 142 | -2.3 | 1.1 | -4.6 | 1 | J |
| 15 | 309 | 6.8 | 15 | J | 5.8 | -76 | 163 | -1.2 | -0.2 | -5.2 | 2 | J |
| 16 | 315 | 7.2 | 16 | J | 5.8 | -76 | 272 | 0.0 | -1.7 | -5.3 | 1 | J |
| 17 | 308 | 8.5 | 16 | J | 5.7 | -86 | 184 | -0.4 | -0.1 | -5.7 | 0 | J |
| 18 | 308 | 8.6 | 16 | J | 6.0 | -79 | 253 | -0.3 | -0.8 | -5.8 | 1 | J |
| 19 | 302 | 12.6 | 13 | C | 5.6 | -55 | 273 | 0.2 | -2.7 | -4.8 | 1 | C |
| 20 | 319 | 7.4 | 15 | J | 6.8 | -54 | 121 | -2.0 | 4.1 | -4.9 | 1 | J |
| 21 | 331 | 6.8 | 13 | J | 7.7 | -50 | 115 | -2.1 | 5.4 | -5.0 | 1 | J |
| 22 | 333 | 6.9 | 18 | J | 7.2 | -52 | 117 | -2.0 | 4.9 | -4.6 | 2 | J |
| 23 | 325 | 8.0 | 32 | J | 6.6 | -40 | 203 | -3.9 | -0.9 | -3.9 | 3 | J |
| 24 | 335 | 7.9 | 27 | J | 6.2 | -6 | 107 | -1.5 | 4.9 | 0.5 | 4 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 8.5 | 34 | J | 6.4 | -4 | 100 | -1.0 | 5.9 | 0.8 | 2 | J |
| 305 | 7.1 | 22 | J | 6.9 | -2 | 144 | -4.9 | 3.5 | 0.4 | 3 | J |
| 339 | 8.3 | 25 | J | 7.7 | 15 | 82 | 1.0 | 7.0 | 2.9 | 1 | J |
| 335 | 9.2 | 25 | J | 7.5 | 3 | 92 | -0.3 | 7.3 | 0.9 | 2 | J |
| 358 | 13.0 | 58 | J | 9.6 | -23 | 100 | -1.3 | 7.5 | -3.1 | 5 | J |
| 370 | 14.2 | 49 | J | 11.5 | 5 | 89 | 0.2 | 10.8 | 0.4 | 4 | J |
| 360 | 13.4 | 51 | J | 12.5 | 8 | 105 | -3.2 | 12.0 | 0.4 | 2 | J |
| 361 | 14.1 | 43 | C | 13.8 | 18 | 106 | -3.3 | 12.1 | 2.1 | 5 | C |
| 370 | 16.3 | 38 | C | 15.4 | 26 | 87 | 0.7 | 14.3 | 4.0 | 4 | C |
| 357 | 17.0 | 40 | C | 15.7 | -7 | 103 | -3.5 | 14.1 | -4.8 | 3 | C |
| 356 | 17.7 | 53 | C | 13.8 | -47 | 116 | -3.7 | 5.4 | -10.3 | 5 | C |
| 353 | 19.4 | 53 | C | 13.5 | -9 | 106 | -3.1 | 10.0 | -3.9 | 7 | C |
| 351 | 12.6 | 46 | C | 15.3 | 14 | 114 | -5.6 | 12.7 | 1.2 | 6 | C |
| 345 | 10.4 | 31 | C | 16.9 | 13 | 121 | -8.4 | 14.5 | 1.6 | 1 | C |
| 343 | 9.1 | 25 | J | 15.9 | 1 | 132 | -10.6 | 11.7 | -0.9 | 1 | J |
| 348 | 9.6 | 29 | J | 15.6 | -5 | 133 | -10.2 | 10.8 | -1.9 | 4 | J |
| 339 | 10.9 | 45 | C | 16.4 | -45 | 139 | -8.3 | 7.2 | -11.2 | 4 | C |
| 352 | 13.3 | 49 | C | 15.7 | -25 | 120 | -6.2 | 11.1 | -5.2 | 7 | C |
| 348 | 15.0 | 45 | C | 14.3 | 18 | 131 | -7.1 | 7.8 | 4.3 | 9 | C |
| 334 | 13.6 | 52 | J | 9.5 | 49 | 41 | 4.6 | 2.9 | 7.4 | 3 | J |
| 340 | 15.5 | 50 | J | 8.6 | 44 | 59 | 3.0 | 3.9 | 6.4 | 3 | J |
| 353 | 16.0 | 39 | J | 9.9 | 45 | 99 | -1.0 | 4.9 | 7.6 | 4 | J |
| 372 | 14.8 | 29 | J | 9.8 | 39 | 107 | -2.2 | 5.7 | 7.6 | 1 | J |
| 371 | 12.4 | 23 | J | 9.6 | 43 | 83 | 0.8 | 5.3 | 7.8 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 11.9 | 22 | J | 9.1 | 46 | 75 | 1.6 | 4.6 | 7.6 | 1 | J |
| 2 | 369 | 13.5 | 24 | J | 8.4 | 44 | 74 | 1.6 | 4.6 | 6.7 | 2 | J |
| 3 | 358 | 13.6 | 26 | C | 8.4 | 46 | 72 | 1.8 | 4.6 | 6.7 | 1 | C |
| 4 | 356 | 14.4 | 40 | J | 4.7 | 11 | 85 | 0.4 | 4.5 | 1.3 | 1 | J |
| 5 | 347 | 14.6 | 41 | J | 4.5 | 48 | 80 | 0.5 | 2.6 | 3.0 | 2 | J |
| 6 | 347 | 13.2 | 42 | J | 4.1 | 42 | 88 | 0.1 | 2.5 | 2.0 | 3 | J |
| 7 | 343 | 12.1 | 40 | J | 4.4 | 35 | 105 | -0.7 | 2.6 | 1.5 | 3 | J |
| 8 | 343 | 9.5 | 37 | J | 5.7 | 66 | 131 | -1.4 | 2.3 | 4.5 | 2 | J |
| 9 | 335 | 8.9 | 34 | J | 6.1 | 28 | 146 | -3.7 | 2.9 | 1.9 | 3 | J |
| 10 | 336 | 8.4 | 30 | J | 6.2 | 56 | 140 | -2.5 | 3.0 | 4.3 | 2 | J |
| 11 | 329 | 8.5 | 28 | J | 6.6 | 53 | 146 | -3.2 | 3.2 | 4.6 | 1 | J |
| 12 | 333 | 9.6 | 26 | J | 7.2 | 55 | 140 | -3.1 | 3.6 | 5.1 | 2 | J |
| 13 | 337 | 11.4 | 24 | J | 6.7 | 61 | 139 | -2.4 | 3.1 | 5.3 | 1 | J |
| 14 | 341 | 11.4 | 32 | C | 6.3 | 64 | 114 | -1.1 | 3.2 | 5.1 | 1 | C |
| 15 | 334 | 9.3 | 22 | J | 6.9 | 59 | 139 | -2.6 | 2.8 | 5.6 | 1 | J |
| 16 | 338 | 9.7 | 28 | J | 6.7 | 64 | 128 | -1.8 | 2.5 | 5.7 | 2 | J |
| 17 | 334 | 11.2 | 30 | J | 6.6 | 74 | 105 | -0.5 | 1.7 | 6.2 | 2 | J |
| 18 | 343 | 19.5 | 16 | C | 5.7 | 30 | 131 | -3.0 | 3.3 | 2.9 | 2 | C |
| 19 | 347 | 20.0 | 19 | J | 6.2 | 27 | 119 | -2.5 | 4.3 | 3.2 | 1 | J |
| 20 | 340 | 18.9 | 16 | J | 6.6 | 21 | 125 | -3.5 | 4.6 | 3.1 | 1 | J |
| 21 | 341 | 21.5 | 22 | J | 6.1 | 33 | 140 | -3.8 | 2.5 | 3.8 | 2 | J |
| 22 | 343 | 18.1 | 20 | J | 7.6 | -3 | 135 | -5.2 | 5.2 | 0.7 | 2 | J |
| 23 | 354 | 17.3 | 19 | J | 8.1 | 2 | 137 | -5.8 | 5.2 | 1.5 | 2 | J |
| 24 | 348 | 13.4 | 32 | A | 9.8 | -15 | 141 | -7.1 | 6.1 | -1.1 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 377 | 8.5 | 26 | J | 10.4 | -37 | 173 | -7.8 | 2.2 | -5.6 | 4 | J |
| 361 | 7.7 | 47 | C |  |  |  |  |  |  |  |  |
| 384 | 8.2 | 43 | J | 9.2 | 48 | 87 | 0.3 | 5.0 | 7.5 | 2 | J |
| 385 | 6.1 | 55 | J | 9.1 | 39 | 107 | -2.0 | 6.0 | 6.0 | 3 | J |
| 421 | 4.8 | 74 | C | 9.6 | 24 | 115 | -3.6 | 7.6 | 3.9 | 2 | C |
| 413 | 7.5 | 73 | J | 7.2 | 19 | 120 | -3.4 | 6.0 | 2.1 | 1 | J |
| 430 | 7.4 | 127 | J | 8.0 | 33 | 101 | -1.3 | 6.9 | 3.7 | 2 | J |
| 437 | 6.6 | 94 | C | 8.4 | 39 | 91 | -0.1 | 6.9 | 4.1 | 2 | C |
| 390 | 6.5 | 61 | C | 9.4 | 12 | 125 | -4.6 | 6.6 | 0.5 | 5 | C |
| 371 | 10.3 | 37 | C | 9.2 | 12 | 129 | -5.5 | 7.1 | 0.4 | 2 | C |
| 368 | 11.4 | 19 | J | 8.5 | -2 | 134 | -5.8 | 5.9 | -1.5 | 1 | J |
| 366 | 11.2 | 18 | J | 8.2 | -13 | 139 | -6.0 | 4.7 | -2.8 | 1 | J |
| 353 | 14.2 | 24 | J | 6.6 | -47 | 148 | -3.8 | 1.5 | -5.1 | 1 | J |
| 345 | 14.8 | 24 | C | 6.4 | -30 | 152 | -4.8 | 2.1 | -3.5 | 1 | J |
| 341 | 14.2 | 22 | C | 6.6 | -39 | 158 | -4.8 | 1.5 | -4.3 | 1 | J |
| 339 | 14.3 | 26 | C | 6.2 | -48 | 167 | -4.0 | 0.8 | -4.6 | 0 | C |
| 341 | 14.8 | 31 | C | 5.7 | 49 | 5 | 3.7 | 0.3 | 4.3 | 1 | J |
| 345 | 17.3 | 20 | C | 5.6 | 57 | 115 | -1.1 | 2.0 | 4.0 | 3 | C |
| 336 | 17.5 | 18 | C | 5.7 | 56 | 98 | -0.4 | 2.2 | 4.3 | 3 | C |
| 330 | 19.1 | 16 | C | 5.1 | 11 | 127 | -2.2 | 2.9 | 1.2 | 3 | C |
| 328 | 17.6 | 13 | C | 5.4 | -50 | 139 | -2.6 | 3.0 | -3.5 | 1 | C |
| 326 | 17.7 | 15 | C | 5.6 | -25 | 115 | -2.1 | 5.0 | -1.3 | 0 | C |
| 322 | 17.5 | 16 | C | 5.2 | -1 | 123 | -2.7 | 4.0 | 0.9 | 1 | C |
| 320 | 17.7 | 14 | C | 4.8 | 5 | 131 | -3.1 | 3.4 | 1.3 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 308 | 16.0 | 15 | C | | | | | | | | |
| 3 | 305 | 13.6 | 0 | C | | | | | | | | |
| 4 | 313 | 17.3 | 12 | C | 4.3 | 59 | 34 | 1.8 | 0.9 | 3.7 | 1 | C |
| 5 | 309 | 16.6 | 10 | C | 4.6 | 49 | 45 | 2.1 | 2.0 | 3.5 | 0 | C |
| 6 | 308 | 16.8 | 12 | C | 4.2 | 47 | 54 | 1.7 | 2.4 | 3.0 | 1 | C |
| 7 | 307 | 16.9 | 13 | C | 4.4 | 51 | 49 | 1.8 | 2.3 | 3.1 | 1 | C |
| 8 | 307 | 17.1 | 12 | C | 4.2 | 62 | 62 | 0.9 | 2.2 | 3.4 | 1 | C |
| 9 | 259 | 4.1 | 123 | L | 4.1 | 55 | 76 | 0.5 | 2.7 | 2.9 | 1 | C |
| 10 | 254 | 4.8 | 133 | L | 3.9 | 34 | 97 | -0.4 | 3.4 | 1.5 | 1 | C |
| 11 | 242 | 5.2 | 117 | L | 4.1 | 36 | 94 | -0.2 | 3.4 | 1.6 | 1 | C |
| 12 | 308 | 17.1 | 15 | C | 3.9 | 52 | 62 | 1.1 | 2.6 | 2.6 | 0 | C |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 322 | 20.8 | 0 | C | | | | | | | | |
| 19 | 314 | 24.2 | 27 | C | 7.9 | 28 | 127 | -4.2 | 5.0 | 4.3 | 1 | C |
| 20 | 320 | 28.2 | 23 | C | 6.7 | 36 | 64 | 1.4 | 2.4 | 2.7 | 5 | C |
| 21 | 322 | 32.3 | 17 | C | 5.1 | 41 | 57 | 1.8 | 2.1 | 3.3 | 3 | C |
| 22 | 333 | 33.9 | 19 | C | 5.9 | 19 | 333 | 2.6 | -1.6 | 0.7 | 5 | C |
| 23 | 331 | 22.4 | 33 | C | 8.9 | 24 | 327 | 6.1 | -4.6 | 2.2 | 4 | C |
| 24 | 332 | 16.4 | 43 | C | 10.4 | 21 | 315 | 6.7 | -7.3 | 2.0 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 20.9 | 0 | C | | | | | | | | |
| 2 | 354 | 18.0 | 71 | C | 9.9 | -4 | 314 | 6.6 | -6.5 | -2.1 | 3 | C |
| 3 | 342 | 19.9 | 76 | C | 11.6 | 9 | 320 | 8.6 | -7.5 | 0.6 | 2 | C |
| 4 | 351 | 18.9 | 97 | C | 10.0 | 80 | 241 | -0.8 | -2.5 | 9.2 | 2 | C |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 356 | 18.3 | 0 | C | | | | | | | | |
| 9 | 359 | 14.8 | 106 | C | 11.3 | 73 | 86 | 0.2 | 4.2 | 8.5 | 5 | C |
| 10 | 376 | 9.6 | 147 | C | 12.2 | 30 | 298 | 4.7 | -7.6 | 7.1 | 4 | C |
| 11 | 376 | 9.1 | 141 | C | 12.3 | -7 | 284 | 2.8 | -11.7 | 0.6 | 2 | C |
| 12 | 401 | 9.8 | 165 | C | 11.8 | -40 | 280 | 1.6 | -10.0 | -5.8 | 1 | C |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 418 | 7.7 | 106 | C | 14.7 | -26 | 284 | 3.2 | -12.3 | -6.6 | 3 | C |
| 18 | 431 | 23.2 | 89 | C | 6.7 | -64 | 323 | 1.2 | -0.7 | -3.2 | 6 | C |
| 19 | 425 | 19.1 | 82 | C | 5.1 | -26 | 349 | 4.3 | -0.6 | -2.3 | 2 | C |
| 20 | 430 | 14.2 | 79 | C | 7.8 | -26 | 327 | 5.6 | -3.0 | -3.8 | 2 | C |
| 21 | 437 | 9.2 | 90 | C | 7.6 | 34 | 295 | 2.5 | -5.9 | 2.7 | 3 | C |
| 22 | 444 | 7.8 | 73 | C | 9.1 | 39 | 272 | 0.2 | -8.1 | 3.8 | 2 | C |
| 23 | 435 | 8.3 | 73 | C | 8.7 | 32 | 275 | 0.6 | -8.0 | 2.6 | 2 | C |
| 24 | 409 | 8.6 | 73 | C | 8.7 | 26 | 309 | 4.7 | -6.5 | 2.1 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 393 | 8.9 | 68 | C | 8.8 | 17 | 297 | 3.8 | -7.6 | 0.6 | 2 | C |
| 2 | 373 | 8.8 | 56 | C | 9.0 | 8 | 334 | 8.0 | -4.1 | 0.4 | 1 | C |
| 3 | 387 | 10.2 | 64 | C | 9.9 | 5 | 339 | 8.7 | -3.5 | 0.2 | 2 | C |
| 4 | 384 | 9.8 | 63 | C | 11.1 | 20 | 344 | 9.6 | -3.1 | 3.3 | 3 | C |
| 5 | 421 | 15.9 | 70 | C | 9.4 | 17 | 329 | 6.7 | -4.2 | 2.2 | 4 | C |
| 6 | 444 | 15.1 | 102 | C | 9.5 | 17 | 97 | -0.8 | 6.8 | 1.9 | 6 | C |
| 7 | 450 | 6.9 | 183 | C | 10.4 | 2 | 114 | -3.7 | 8.5 | -0.2 | 4 | C |
| 8 | 462 | 6.8 | 168 | C | 10.4 | -31 | 115 | -3.5 | 6.8 | -5.8 | 3 | C |
| 9 | 450 | 6.5 | 166 | C | 9.2 | 5 | 121 | -4.1 | 6.7 | -0.3 | 4 | C |
| 10 | 462 | 6.3 | 170 | C | 7.5 | 0 | 122 | -3.3 | 5.2 | -1.0 | 4 | C |
| 11 | 483 | 7.1 | 161 | C | 6.5 | 72 | 82 | 0.1 | 1.4 | 2.6 | 5 | C |
| 12 | 475 | 7.0 | 175 | C | 7.3 | -3 | 101 | -1.1 | 5.6 | -1.2 | 4 | C |
| 13 | 464 | 7.3 | 167 | C | 6.4 | -9 | 127 | -3.2 | 4.1 | -1.4 | 3 | C |
| 14 | 472 | 7.5 | 156 | C | 6.9 | -10 | 137 | -3.1 | 2.8 | -1.1 | 5 | C |
| 15 | 461 | 8.1 | 138 | C | 7.5 | -42 | 180 | -4.9 | -0.3 | -4.3 | 3 | C |
| 16 | 488 | 7.4 | 158 | C | 8.0 | -33 | 82 | 0.7 | 4.8 | -3.3 | 5 | C |
| 17 | 487 | 6.7 | 132 | C | 7.2 | -4 | 56 | 3.1 | 4.5 | -0.2 | 4 | C |
| 18 | 490 | 6.1 | 133 | C | 6.4 | 12 | 89 | 0.1 | 4.9 | 1.5 | 3 | C |
| 19 | 504 | 5.8 | 124 | C | 6.6 | 12 | 63 | 2.6 | 4.9 | 1.9 | 2 | C |
| 20 | 471 | 5.9 | 118 | C | 6.2 | 26 | 96 | -0.5 | 4.4 | 3.2 | 2 | C |
| 21 | 483 | 4.6 | 95 | C | 5.5 | 57 | 198 | -2.2 | -1.5 | 3.3 | 2 | C |
| 22 | 493 | 4.7 | 107 | C | 5.4 | 74 | 87 | 0.1 | 0.2 | 4.7 | 2 | C |
| 23 | 479 | 4.7 | 102 | C | 5.1 | 25 | 99 | -0.5 | 2.5 | 2.1 | 3 | C |
| 24 | 462 | 4.6 | 84 | C | 5.5 | 40 | 159 | -3.7 | 0.5 | 3.6 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 464 | 4.3 | 94 | C | 5.7 | 11 | 120 | -2.5 | 3.9 | 2.0 | 2 | C |
| 2 | 477 | 4.4 | 97 | C | 6.0 | 5 | 114 | -2.2 | 4.9 | 1.6 | 1 | C |
| 3 | 488 | 4.6 | 122 | C | 5.7 | -4 | 114 | -2.0 | 4.4 | 0.4 | 3 | C |
| 4 | 479 | 4.6 | 132 | C | 5.9 | 7 | 165 | -4.9 | 1.2 | 0.7 | 2 | C |
| 5 | 483 | 4.9 | 128 | C | 5.9 | 6 | 142 | -4.2 | 3.2 | 0.7 | 2 | C |
| 6 | 478 | 5.1 | 128 | C | 5.9 | -15 | 146 | -4.2 | 2.9 | -1.4 | 2 | C |
| 7 | 462 | 5.1 | 114 | C | 6.4 | -19 | 174 | -5.5 | 0.4 | -1.9 | 2 | C |
| 8 | 458 | 5.0 | 105 | C | 6.5 | -9 | 194 | -5.6 | -1.5 | -0.8 | 3 | C |
| 9 | 456 | 4.8 | 104 | C | 6.2 | 5 | 193 | -5.9 | -1.3 | 0.7 | 1 | C |
| 10 | 475 | 4.8 | 108 | C | 6.0 | -4 | 212 | -4.2 | -2.7 | 0.1 | 3 | C |
| 11 | 491 | 4.6 | 91 | C | 6.0 | -8 | 233 | -2.6 | -3.5 | -0.0 | 4 | C |
| 12 | 512 | 4.5 | 104 | C | 6.2 | -50 | 44 | 2.2 | 1.5 | -3.9 | 4 | C |
| 13 | 462 | 4.2 | 101 | C | 5.9 | 2 | 162 | -4.9 | 1.6 | -0.1 | 2 | C |
| 14 | 453 | 4.3 | 87 | C | 6.1 | 3 | 172 | -5.8 | 0.9 | 0.3 | 1 | C |
| 15 | 462 | 4.6 | 98 | C | 5.7 | -5 | 153 | -4.6 | 2.3 | -0.6 | 2 | C |
| 16 | 463 | 4.7 | 96 | C | 5.7 | 20 | 187 | -4.8 | -0.6 | 1.8 | 2 | C |
| 17 | 465 | 4.7 | 95 | C | 5.9 | -20 | 149 | -4.4 | 2.7 | -1.8 | 2 | C |
| 18 | 451 | 4.5 | 81 | C | 6.4 | 4 | 154 | -5.6 | 2.7 | 0.7 | 1 | C |
| 19 | 460 | 4.6 | 92 | C | 6.6 | -9 | 141 | -4.4 | 3.6 | -0.3 | 3 | C |
| 20 | 455 | 4.4 | 101 | C | 7.4 | -10 | 133 | -4.4 | 4.8 | -0.2 | 3 | C |
| 21 | 453 | 4.1 | 83 | C | 8.0 | -63 | 144 | -2.4 | 3.0 | -5.3 | 4 | C |
| 22 | 456 | 4.4 | 87 | C | 8.3 | -61 | 179 | -3.6 | 1.7 | -6.3 | 3 | C |
| 23 | 462 | 4.3 | 92 | C | 7.5 | -74 | 232 | -1.2 | 0.3 | -7.1 | 1 | C |
| 24 | 452 | 4.6 | 105 | C | 7.6 | -80 | 171 | -1.2 | 2.1 | -6.7 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 463 | 4.5 | 91 | C | 8.0 | -86 | 84 | 0.1 | 2.5 | -7.3 | 1 | C |
| 2 | 448 | 5.0 | 113 | C | 7.2 | -68 | 157 | -2.1 | 2.2 | -5.3 | 3 | C |
| 3 | 437 | 5.4 | 98 | C | 7.9 | -53 | 142 | -3.7 | 3.9 | -5.6 | 1 | C |
| 4 | 442 | 5.9 | 113 | C | 7.5 | -49 | 129 | -2.9 | 4.2 | -4.7 | 2 | C |
| 5 | 428 | 5.7 | 110 | C | 7.8 | -41 | 140 | -3.9 | 3.6 | -4.3 | 3 | C |
| 6 | 457 | 4.8 | 129 | C | 8.5 | -85 | 100 | -0.1 | 0.7 | -8.1 | 2 | C |
| 7 | 432 | 5.6 | 145 | C | 8.7 | -12 | 107 | -2.2 | 7.3 | -2.1 | 3 | C |
| 8 | 432 | 5.6 | 160 | C | 7.6 | 5 | 125 | -3.7 | 5.3 | 0.0 | 3 | C |
| 9 | 483 | 4.5 | 144 | C | 7.6 | -15 | 102 | -1.2 | 5.4 | -2.3 | 4 | C |
| 10 | 516 | 4.8 | 172 | C | 7.9 | -15 | 93 | -0.3 | 6.2 | -2.7 | 3 | C |
| 11 | 477 | 4.7 | 127 | C | 8.5 | -9 | 116 | -3.1 | 6.2 | -2.1 | 4 | C |
| 12 | 488 | 5.1 | 177 | C | 8.1 | 16 | 131 | -4.7 | 5.8 | 1.2 | 2 | C |
| 13 | 492 | 4.5 | 145 | C | 7.8 | -3 | 158 | -5.9 | 2.3 | -0.7 | 4 | C |
| 14 | 543 | 4.5 | 140 | C | 7.8 | -27 | 79 | 1.1 | 5.7 | -3.7 | 3 | C |
| 15 | 539 | 4.2 | 115 | C | 8.6 | -36 | 71 | 2.1 | 6.1 | -5.2 | 2 | C |
| 16 | 536 | 5.6 | 80 | C | 8.5 | -60 | 68 | 1.5 | 3.8 | -7.0 | 3 | C |
| 17 | 553 | 7.4 | 56 | C | 7.3 | -32 | 84 | 0.7 | 6.2 | -3.5 | 1 | C |
| 18 | 544 | 7.2 | 70 | C | 7.6 | -30 | 355 | 3.8 | -0.1 | -2.2 | 6 | C |
| 19 | 531 | 9.5 | 67 | C | 8.0 | -39 | 358 | 5.9 | 0.6 | -4.8 | 2 | C |
| 20 | 526 | 7.3 | 62 | C | 8.9 | -49 | 7 | 5.5 | 2.0 | -6.2 | 2 | C |
| 21 | 521 | 7.3 | 0 | C | 9.6 | -55 | 17 | 5.2 | 3.4 | -7.2 | 0 | C |
| 22 | 483 | 5.5 | 46 | C | 9.3 | -68 | 78 | 0.7 | 5.3 | -7.2 | 2 | J |
| 23 | 477 | 7.6 | 38 | C | 9.2 | -64 | 67 | 1.6 | 5.8 | -6.9 | 1 | J |
| 24 | 467 | 9.1 | 34 | C | 8.8 | -57 | 73 | 1.4 | 6.4 | -5.8 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 467 | 11.4 | 54 | J | 8.2 | -62 | 95 | -0.3 | 5.4 | -5.8 | 2 | J |
| 2 | 453 | 7.5 | 64 | C | 8.5 | -7 | 94 | -0.4 | 5.9 | 0.7 | 6 | C |
| 3 | 453 | 6.7 | 72 | C | 7.9 | -38 | 86 | 0.4 | 6.6 | -3.4 | 2 | C |
| 4 | 458 | 6.5 | 67 | C | 7.0 | -62 | 63 | 1.4 | 3.5 | -5.3 | 2 | C |
| 5 | 467 | 6.1 | 57 | C | 7.0 | -53 | 26 | 3.4 | 2.1 | -4.9 | 3 | C |
| 6 | 468 | 6.6 | 48 | J | 5.5 | -39 | 52 | 2.6 | 3.4 | -3.4 | 0 | J |
| 7 | 455 | 6.9 | 47 | J | 5.5 | -52 | 58 | 1.7 | 2.5 | -4.1 | 2 | J |
| 8 | 451 | 6.4 | 47 | J | 5.7 | -28 | 46 | 3.0 | 2.9 | -2.6 | 3 | J |
| 9 | 441 | 7.0 | 51 | J | 5.5 | -60 | 103 | -0.6 | 1.8 | -4.5 | 2 | J |
| 10 | 439 | 9.1 | 63 | J | 5.4 | -59 | 157 | -2.1 | 0.3 | -3.9 | 3 | J |
| 11 | 428 | 4.5 | 54 | J | 6.5 | -40 | 191 | -4.8 | -1.5 | -3.9 | 2 | J |
| 12 | 433 | 12.1 | 35 | J | 6.1 | -31 | 199 | -4.8 | -2.1 | -2.8 | 2 | J |
| 13 | 442 | 18.1 | 30 | J | 5.2 | -66 | 86 | 0.1 | 1.1 | -3.7 | 3 | J |
| 14 | 438 | 17.6 | 38 | J | 5.6 | -23 | 44 | 3.2 | 3.0 | -2.2 | 3 | J |
| 15 | 424 | 11.7 | 30 | J | 6.9 | -12 | 37 | 5.3 | 3.9 | -1.6 | 1 | J |
| 16 | 421 | 17.0 | 38 | J | 6.8 | -6 | 36 | 5.3 | 3.9 | -0.7 | 2 | J |
| 17 | 412 | 16.1 | 21 | J | 7.2 | 17 | 40 | 5.1 | 4.1 | 2.3 | 2 | J |
| 18 | 409 | 10.7 | 22 | J | 7.4 | -31 | 45 | 3.6 | 4.0 | -2.7 | 4 | J |
| 19 | 409 | 15.1 | 18 | J | 6.8 | 11 | 25 | 5.9 | 2.5 | 1.7 | 2 | J |
| 20 | 406 | 16.5 | 17 | J | 6.4 | 5 | 26 | 5.4 | 2.5 | 1.0 | 2 | J |
| 21 | 404 | 15.2 | 16 | J | 6.0 | 26 | 50 | 3.4 | 3.3 | 3.5 | 1 | J |
| 22 | 396 | 15.7 | 26 | J | 5.0 | 40 | 23 | 2.6 | 0.4 | 2.6 | 3 | J |
| 23 | 403 | 18.9 | 15 | J | 5.5 | -7 | 46 | 3.7 | 3.9 | 0.4 | 1 | J |
| 24 | 400 | 21.5 | 16 | J | 5.4 | 14 | 50 | 3.0 | 3.1 | 2.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 393 | 23.9 | 14 | C | 5.0 | 74 | 282 | 0.3 | -2.3 | 3.8 | 3 | J |
| 2 | 384 | 18.2 | 12 | C | 5.9 | 62 | 109 | -0.9 | 1.2 | 5.5 | 2 | C |
| 3 | 383 | 14.9 | 17 | C | 6.0 | 64 | 127 | -1.4 | 0.9 | 5.0 | 3 | C |
| 4 | 387 | 10.4 | 18 | C | 6.3 | 58 | 105 | -0.8 | 2.4 | 5.6 | 1 | C |
| 5 | 393 | 15.3 | 17 | C | 7.7 | 43 | 113 | -2.2 | 4.7 | 5.7 | 2 | C |
| 6 | 403 | 17.5 | 38 | C | 6.5 | 27 | 83 | 0.5 | 4.0 | 2.2 | 5 | C |
| 7 | 424 | 14.9 | 36 | C | 6.6 | 28 | 90 | 0.0 | 5.6 | 2.7 | 2 | J |
| 8 | 453 | 6.8 | 50 | J | 6.1 | 26 | 97 | -0.6 | 5.3 | 2.1 | 2 | J |
| 9 | 433 | 7.5 | 65 | J | 5.8 | 32 | 131 | -2.7 | 3.4 | 2.2 | 3 | J |
| 10 | 423 | 8.5 | 76 | J | 5.4 | 17 | 133 | -3.3 | 3.7 | 1.0 | 2 | J |
| 11 | 417 | 7.2 | 52 | C | 5.0 | 15 | 136 | -3.4 | 3.4 | 0.8 | 1 | J |
| 12 | 420 | 7.7 | 47 | C | 5.4 | 35 | 119 | -2.0 | 4.0 | 2.3 | 2 | C |
| 13 | 412 | 9.3 | 41 | J | 5.4 | 19 | 147 | -3.6 | 2.5 | 1.2 | 3 | J |
| 14 | 399 | 8.4 | 43 | J | 6.4 | 33 | 152 | -4.5 | 2.7 | 3.1 | 2 | J |
| 15 | 395 | 9.3 | 63 | J | 6.0 | 36 | 157 | -4.2 | 1.9 | 3.3 | 2 | J |
| 16 | 402 | 11.2 | 59 | J | 4.3 | -28 | 104 | -0.3 | 1.4 | -0.7 | 4 | J |
| 17 | 406 | 11.4 | 44 | J | 4.7 | -16 | 61 | 1.9 | 3.5 | -0.9 | 2 | J |
| 18 | 401 | 11.7 | 50 | J | 4.1 | -44 | 105 | -0.5 | 2.2 | -1.7 | 3 | J |
| 19 | 396 | 12.4 | 43 | J | 4.7 | -42 | 116 | -1.4 | 3.4 | -2.4 | 2 | J |
| 20 | 386 | 12.2 | 33 | J | 5.2 | -44 | 124 | -2.0 | 3.6 | -2.8 | 1 | J |
| 21 | 389 | 13.0 | 40 | J | 5.3 | -61 | 306 | 1.1 | -0.6 | -3.5 | 4 | J |
| 22 | 400 | 8.0 | 31 | J | 7.7 | -63 | 14 | 3.3 | 2.6 | -6.2 | 2 | J |
| 23 | 395 | 6.8 | 31 | J | 7.8 | -65 | 25 | 2.9 | 3.3 | -6.3 | 2 | J |
| 24 | 407 | 11.4 | 20 | J | 7.7 | 18 | 130 | -4.4 | 4.4 | 3.6 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 411 | 10.0 | 17 | J | 8.1 | 16 | 134 | -5.3 | 4.7 | 3.6 | 1 | C |
| 2 | 402 | 8.8 | 12 | C | 7.9 | 23 | 149 | -6.0 | 2.7 | 3.8 | 2 | J |
| 3 | 406 | 5.9 | 16 | C | 8.7 | -2 | 129 | -5.2 | 6.3 | 1.0 | 3 | C |
| 4 | 402 | 6.5 | 14 | C | 8.9 | -17 | 130 | -5.5 | 6.8 | -1.6 | 1 | J |
| 5 | 402 | 4.3 | 19 | J | 8.6 | -17 | 130 | -5.3 | 6.5 | -1.9 | 1 | J |
| 6 | 399 | 5.0 | 18 | J | 8.3 | -25 | 144 | -6.0 | 4.5 | -3.3 | 1 | J |
| 7 | 400 | 5.1 | 18 | J | 7.9 | -30 | 150 | -5.9 | 3.3 | -4.0 | 1 | J |
| 8 | 392 | 4.8 | 16 | C | 7.7 | -36 | 148 | -5.3 | 3.0 | -4.8 | 1 | J |
| 9 | 387 | 7.0 | 16 | C | 7.6 | -39 | 159 | -5.4 | 1.6 | -4.9 | 1 | J |
| 10 | 415 | 13.0 | 25 | J | 7.6 | -40 | 171 | -5.8 | 0.3 | -5.0 | 1 | J |
| 11 | 414 | 11.9 | 29 | J | 7.8 | -36 | 173 | -6.3 | 0.1 | -4.6 | 1 | J |
| 12 | 394 | 6.4 | 18 | C | 7.9 | -43 | 142 | -4.4 | 2.8 | -5.6 | 2 | J |
| 13 | 406 | 6.0 | 16 | J | 8.2 | -46 | 147 | -4.7 | 2.4 | -6.1 | 1 | J |
| 14 | 409 | 8.7 | 17 | J | 8.7 | -43 | 144 | -5.1 | 3.3 | -6.1 | 2 | J |
| 15 | 427 | 11.5 | 21 | J | 8.3 | -42 | 118 | -2.7 | 4.9 | -5.3 | 3 | J |
| 16 | 413 | 12.0 | 22 | J | 8.5 | -45 | 139 | -4.5 | 4.0 | -5.9 | 2 | J |
| 17 | 406 | 4.9 | 21 | J | 9.5 | -59 | 320 | 3.7 | -2.5 | -8.2 | 2 | J |
| 18 | 405 | 5.0 | 20 | J | 9.8 | -69 | 328 | 2.9 | -0.7 | -9.2 | 1 | J |
| 19 | 418 | 6.1 | 36 | J | 10.4 | -71 | 295 | 1.4 | -1.3 | -10.0 | 2 | J |
| 20 | 417 | 6.5 | 16 | C | 10.4 | -69 | 5 | 3.5 | 2.3 | -8.9 | 3 | J |
| 21 | 425 | 8.3 | 29 | J | 11.1 | -77 | 298 | 1.2 | 0.6 | -10.8 | 2 | J |
| 22 | 434 | 5.8 | 54 | J | 11.1 | -58 | 283 | 0.8 | -1.7 | -6.3 | 9 | J |
| 23 | 455 | 5.6 | 261 | J | 8.4 | -34 | 267 | -0.3 | -4.6 | -5.7 | 4 | J |
| 24 | 481 | 4.5 | 286 | J | 8.5 | -41 | 256 | -1.3 | -3.5 | -5.8 | 5 | J |

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01/02/80 – 01/09/80

JAN. 2, 1980 — 2

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 492 | 3.2 | 223 | J | 8.5 | 2 | 263 | -0.9 | -7.4 | -1.9 | 4 | J |
| 2 | 500 | 4.0 | 337 | J | 7.3 | -22 | 261 | -0.8 | -4.5 | -3.4 | 4 | J |
| 3 | 500 | 4.0 | 235 | J | 6.2 | 20 | 272 | 0.2 | -5.9 | 0.8 | 2 | J |
| 4 | 512 | 4.9 | 132 | J | 6.9 | -6 | 211 | -4.3 | -2.4 | -0.9 | 5 | J |
| 5 | 461 | 5.7 | 219 | J | 6.4 | -25 | 282 | 1.1 | -4.9 | -3.0 | 3 | J |
| 6 | | | | | | | | | | | | |
| 7 | 425 | 7.2 | 0 | C | 6.3 | -22 | 265 | -0.5 | -5.5 | -2.2 | 2 | C |
| 8 | 426 | 7.4 | 95 | J | 6.4 | 9 | 298 | 2.7 | -5.1 | 1.3 | 2 | J |
| 9 | 471 | 8.9 | 100 | J | 6.3 | -8 | 237 | -3.1 | -4.8 | -0.3 | 3 | J |
| 10 | 447 | 8.7 | 136 | J | 7.4 | 11 | 281 | 1.2 | -6.2 | 2.0 | 3 | J |
| 11 | 447 | 7.5 | 98 | J | 7.5 | 1 | 281 | 1.4 | -7.1 | 1.0 | 2 | J |
| 12 | 462 | 8.0 | 162 | J | 6.2 | -53 | 248 | -1.3 | -3.7 | -4.1 | 2 | J |
| 13 | 438 | 7.3 | 210 | J | 7.0 | -6 | 312 | 4.3 | -4.8 | -0.2 | 3 | J |
| 14 | 457 | 6.4 | 183 | J | 7.6 | -15 | 297 | 2.5 | -5.1 | -1.2 | 5 | J |
| 15 | 465 | 7.6 | 204 | J | 8.2 | 9 | 284 | 1.6 | -6.4 | 1.2 | 4 | J |
| 16 | 460 | 7.6 | 231 | J | 8.7 | 46 | 314 | 4.1 | -4.4 | 5.9 | 2 | J |
| 17 | 450 | 6.9 | 152 | C | 9.2 | 23 | 299 | 3.6 | -6.8 | 2.7 | 3 | C |
| 18 | 421 | 6.8 | 117 | J | 9.4 | 18 | 312 | 5.8 | -6.7 | 1.9 | 3 | J |
| 19 | 419 | 6.5 | 118 | J | 9.3 | 26 | 318 | 6.1 | -6.1 | 2.9 | 2 | J |
| 20 | 410 | 6.6 | 97 | J | 9.4 | 21 | 325 | 7.1 | -5.6 | 2.1 | 1 | J |
| 21 | 412 | 6.8 | 97 | J | 9.6 | 29 | 316 | 5.8 | -6.6 | 2.8 | 3 | J |
| 22 | 407 | 5.8 | 71 | J | 11.0 | 41 | 312 | 5.4 | -7.8 | 5.0 | 3 | J |
| 23 | 418 | 5.4 | 67 | J | 10.6 | 29 | 308 | 5.4 | -8.1 | 2.6 | 3 | J |
| 24 | 412 | 5.4 | 24 | J | 11.8 | 50 | 329 | 6.4 | -6.4 | 7.3 | 3 | J |

JAN. 3, 1980 — 3

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 424 | 6.2 | 51 | C | 11.8 | 46 | 323 | 6.3 | -7.0 | 6.5 | 3 | C |
| 2 | 415 | 7.1 | 67 | C | 10.6 | -4 | 325 | 8.2 | -5.3 | -2.2 | 3 | C |
| 3 | 461 | 8.9 | 97 | J | 10.0 | -35 | 305 | 4.3 | -4.8 | -6.5 | 4 | J |
| 4 | 460 | 8.9 | 115 | J | 9.7 | -8 | 314 | 6.4 | -6.3 | -2.4 | 3 | J |
| 5 | 477 | 8.0 | 163 | J | 8.8 | -10 | 320 | 6.0 | -4.9 | -1.9 | 3 | J |
| 6 | 479 | 8.5 | 145 | J | 8.9 | 29 | 340 | 6.9 | -2.7 | 3.9 | 3 | J |
| 7 | 478 | 6.6 | 145 | C | 9.5 | 60 | 329 | 3.6 | -2.1 | 7.2 | 4 | C |
| 8 | 471 | 6.9 | 124 | C | 9.9 | 42 | 352 | 6.7 | -0.6 | 6.1 | 4 | C |
| 9 | 495 | 9.0 | 139 | J | 8.6 | 21 | 336 | 6.6 | -2.7 | 3.0 | 4 | J |
| 10 | 483 | 9.5 | 127 | J | 9.1 | 7 | 343 | 8.5 | -2.5 | 1.4 | 2 | J |
| 11 | 499 | 7.2 | 95 | C | 10.4 | -4 | 313 | 6.8 | -7.4 | 0.2 | 2 | C |
| 12 | 548 | 6.8 | 117 | C | 10.2 | -18 | 287 | 2.7 | -9.5 | -2.1 | 1 | C |
| 13 | 528 | 6.6 | 121 | C | 10.9 | 1 | 294 | 4.1 | -9.2 | 1.0 | 4 | C |
| 14 | 510 | 7.4 | 85 | J | 8.8 | 9 | 334 | 7.2 | -3.4 | 1.5 | 3 | J |
| 15 | 513 | 6.7 | 107 | J | 9.8 | 10 | 313 | 6.6 | -7.0 | 1.8 | 1 | J |
| 16 | 593 | 6.4 | 145 | C | 10.5 | 31 | 298 | 3.8 | -7.2 | 4.6 | 3 | C |
| 17 | 569 | 6.6 | 164 | C | 9.9 | 27 | 311 | 5.0 | -6.0 | 3.4 | 5 | C |
| 18 | 566 | 7.4 | 303 | J | 8.3 | -3 | 318 | 5.8 | -5.1 | -1.1 | 3 | J |
| 19 | 595 | 5.9 | 240 | J | 8.8 | 19 | 316 | 5.4 | -5.7 | 1.6 | 4 | J |
| 20 | 613 | 5.3 | 221 | J | 9.8 | 8 | 310 | 5.5 | -6.7 | -0.4 | 4 | J |
| 21 | 620 | 6.2 | 196 | J | 9.2 | -4 | 327 | 6.5 | -3.9 | -1.7 | 5 | J |
| 22 | 625 | 7.0 | 165 | J | 8.3 | -10 | 348 | 6.5 | -1.0 | -1.5 | 5 | J |
| 23 | 624 | 6.1 | 110 | J | 7.8 | -4 | 356 | 6.5 | -0.3 | -0.6 | 4 | J |
| 24 | 639 | 6.1 | 144 | J | 7.7 | 32 | 331 | 4.5 | -3.4 | 2.3 | 5 | J |

JAN. 4, 1980 — 4

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 651 | 6.7 | 202 | J | 7.9 | 21 | 300 | 2.7 | -5.1 | 0.6 | 5 | J |
| 2 | 643 | 7.3 | 203 | J | 7.4 | 47 | 339 | 3.2 | -2.2 | 3.3 | 5 | J |
| 3 | 645 | 6.5 | 177 | J | 6.9 | 30 | 316 | 2.6 | -2.9 | 1.5 | 5 | J |
| 4 | 641 | 6.0 | 167 | J | 7.1 | 38 | 295 | 2.0 | -4.8 | 2.8 | 4 | J |
| 5 | 629 | 5.3 | 136 | J | 6.8 | -18 | 294 | 1.6 | -3.5 | -1.7 | 5 | J |
| 6 | 631 | 5.2 | 135 | J | 6.5 | 17 | 309 | 2.5 | -3.2 | 1.1 | 5 | J |
| 7 | 626 | 5.2 | 115 | J | 6.4 | 24 | 299 | 2.5 | -4.5 | 2.3 | 3 | J |
| 8 | 639 | 4.9 | 113 | J | 6.4 | 37 | 280 | 0.8 | -4.5 | 3.8 | 2 | J |
| 9 | 621 | 4.9 | 117 | J | 5.5 | 37 | 321 | 2.6 | -1.9 | 2.7 | 3 | J |
| 10 | 626 | 5.0 | 129 | J | 5.4 | 14 | 320 | 2.2 | -1.8 | 0.9 | 4 | J |
| 11 | 634 | 4.7 | 112 | J | 5.3 | 79 | 344 | 0.8 | 0.2 | 4.1 | 3 | J |
| 12 | 627 | 4.2 | 112 | C | 5.9 | 66 | 7 | 2.1 | 0.8 | 4.8 | 2 | C |
| 13 | 621 | 4.2 | 126 | C | 5.9 | 37 | 338 | 3.7 | -1.3 | 3.1 | 3 | C |
| 14 | 621 | 4.5 | 89 | J | 5.3 | 29 | 12 | 3.8 | 0.9 | 2.1 | 3 | J |
| 15 | 635 | 4.4 | 112 | J | 4.7 | -24 | 41 | 2.6 | 2.3 | -1.6 | 3 | J |
| 16 | 634 | 4.5 | 128 | J | 4.9 | 4 | 33 | 2.7 | 1.7 | 0.3 | 4 | J |
| 17 | 612 | 4.1 | 96 | J | 4.7 | -24 | 356 | 3.7 | -0.1 | -1.7 | 2 | J |
| 18 | 628 | 4.6 | 106 | J | 5.2 | -21 | 12 | 3.3 | 0.9 | -1.2 | 4 | J |
| 19 | 639 | 4.3 | 123 | C | 4.4 | -7 | 309 | 2.0 | -2.3 | -0.9 | 3 | C |
| 20 | 618 | 4.5 | 88 | J | 4.6 | 10 | 330 | 3.4 | -2.1 | 0.2 | 2 | J |
| 21 | 641 | 4.5 | 108 | J | 4.6 | 31 | 321 | 1.6 | -1.6 | 0.8 | 4 | J |
| 22 | 637 | 4.3 | 110 | J | 4.9 | 17 | 286 | 0.9 | -3.5 | 0.0 | 3 | J |
| 23 | 640 | 4.1 | 91 | J | 5.0 | 31 | 281 | 0.6 | -3.3 | 0.8 | 4 | J |
| 24 | 632 | 3.9 | 78 | J | 5.1 | 44 | 4 | 2.9 | -0.7 | 2.7 | 3 | J |

JAN. 5, 1980 — 5

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 626 | 3.9 | 82 | J | 5.0 | -22 | 307 | 2.4 | -2.5 | -2.5 | 2 | J |
| 2 | 609 | 3.7 | 82 | J | 5.0 | 8 | 3 | 4.3 | 0.1 | 0.6 | 2 | J |
| 3 | 645 | 4.7 | 335 | J | 5.2 | 58 | 5 | 2.6 | -0.8 | 4.2 | 1 | J |
| 4 | 622 | 3.8 | 92 | J | 4.9 | 32 | 318 | 2.5 | -2.6 | 1.6 | 3 | J |
| 5 | 610 | 3.8 | 116 | J | 5.1 | 2 | 331 | 3.0 | -1.6 | -0.1 | 4 | J |
| 6 | 594 | 3.6 | 137 | J | 5.1 | 5 | 332 | 3.8 | -2.0 | 0.2 | 3 | J |
| 7 | 607 | 3.8 | 130 | J | 5.0 | 20 | 310 | 2.6 | -3.1 | 1.5 | 2 | J |
| 8 | 581 | 3.4 | 112 | C | 5.0 | -6 | 348 | 4.4 | -1.0 | -0.4 | 2 | C |
| 9 | 626 | 3.6 | 82 | J | 5.2 | 79 | 30 | 0.8 | 0.9 | 5.0 | 1 | J |
| 10 | 602 | 3.7 | 100 | J | 5.1 | 47 | 329 | 2.2 | -1.0 | 2.8 | 3 | J |
| 11 | 573 | 3.4 | 75 | J | 4.9 | 14 | 359 | 3.9 | 0.0 | 1.0 | 3 | J |
| 12 | 577 | 3.7 | 90 | J | 4.9 | -4 | 4 | 3.6 | 0.2 | -0.3 | 3 | J |
| 13 | 574 | 3.5 | 77 | J | 5.1 | -36 | 2 | 3.6 | -0.1 | -2.6 | 2 | J |
| 14 | 571 | 3.6 | 62 | J | 4.9 | -13 | 335 | 3.8 | -1.8 | -0.9 | 2 | J |
| 15 | 561 | 3.4 | 55 | J | 5.1 | -19 | 337 | 4.3 | -1.8 | -1.6 | 1 | J |
| 16 | 560 | 3.7 | 60 | J | 4.7 | -20 | 329 | 3.7 | -2.1 | -1.7 | 1 | J |
| 17 | 580 | 3.4 | 113 | C | 4.5 | -16 | 333 | 3.2 | -1.5 | -1.2 | 2 | C |
| 18 | 601 | 3.5 | 129 | C | 3.7 | 33 | 308 | 1.1 | -1.6 | 1.0 | 3 | C |
| 19 | 603 | 3.7 | 131 | C | 4.0 | 16 | 339 | 3.1 | -1.3 | 0.7 | 2 | J |
| 20 | 589 | 3.6 | 122 | C | 4.1 | -1 | 1 | 2.5 | 0.1 | -0.0 | 3 | J |
| 21 | 600 | 3.7 | 115 | C | 3.6 | 20 | 335 | 1.8 | -1.0 | 0.5 | 3 | J |
| 22 | 607 | 3.9 | 127 | C | 4.1 | -10 | 318 | 2.6 | -2.1 | -1.3 | 2 | J |
| 23 | 585 | 3.9 | 132 | C | 4.0 | -22 | 12 | 2.5 | 0.9 | -0.8 | 3 | J |
| 24 | 590 | 3.9 | 140 | C | 3.8 | 2 | 321 | 1.1 | -0.8 | -0.2 | 4 | J |

JAN. 6, 1980 — 6

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 584 | 3.7 | 123 | C | 2.5 | 6 | 0 | 2.1 | -0.1 | 0.2 | 1 | J |
| 2 | 593 | 3.7 | 111 | C | 3.7 | -33 | 298 | 1.2 | -1.6 | -2.2 | 2 | C |
| 3 | 591 | 3.3 | 130 | C | 3.6 | 11 | 331 | 2.0 | -1.2 | 0.2 | 2 | C |
| 4 | 586 | 3.2 | 103 | C | 4.0 | 11 | 320 | 2.5 | -2.2 | 0.2 | 2 | C |
| 5 | 576 | 3.0 | 90 | C | 3.8 | 25 | 353 | 2.8 | -0.5 | 1.3 | 2 | C |
| 6 | 583 | 2.7 | 95 | C | 3.7 | 26 | 336 | 1.9 | -0.9 | 0.9 | 3 | C |
| 7 | 571 | 2.7 | 87 | C | 3.4 | 7 | 343 | 2.5 | -0.8 | 0.3 | 2 | C |
| 8 | 578 | 2.5 | 95 | C | 3.3 | 22 | 354 | 2.2 | -0.2 | 0.9 | 2 | C |
| 9 | 568 | 2.4 | 98 | C | 3.3 | 7 | 18 | 3.0 | 1.0 | 0.3 | 1 | C |
| 10 | 574 | 2.1 | 92 | C | 2.5 | 32 | 340 | 1.6 | -0.5 | 1.1 | 1 | C |
| 11 | 573 | 2.2 | 94 | C | 3.0 | 12 | 270 | 0.0 | -2.6 | 0.8 | 1 | C |
| 12 | 563 | 2.1 | 77 | C | 2.5 | -12 | 212 | -1.7 | -1.1 | -0.3 | 1 | C |
| 13 | 544 | 2.3 | 79 | C | 1.7 | -7 | 159 | -1.1 | 0.4 | -0.2 | 1 | C |
| 14 | 527 | 2.3 | 71 | C | 1.5 | -28 | 146 | -0.8 | 0.5 | -0.5 | 1 | C |
| 15 | 501 | 2.5 | 51 | C | 2.0 | -49 | 263 | -0.1 | -0.9 | -1.1 | 1 | C |
| 16 | 498 | 2.7 | 48 | C | 2.1 | -47 | 299 | 0.5 | -0.9 | -1.2 | 1 | C |
| 17 | 498 | 2.7 | 49 | C | 2.3 | 3 | 243 | -1.0 | -1.9 | -0.1 | 1 | C |
| 18 | 488 | 2.4 | 44 | C | 2.2 | 42 | 246 | -0.2 | -0.6 | 0.4 | 2 | C |
| 19 | 473 | 2.5 | 42 | C | 2.6 | -32 | 5 | 1.8 | 0.4 | -1.0 | 1 | C |
| 20 | 470 | 2.4 | 52 | C | 2.5 | 21 | 316 | 1.4 | -1.5 | 0.4 | 1 | C |
| 21 | 486 | 2.5 | 39 | C | 2.4 | 3 | 256 | -0.3 | -1.1 | -0.3 | 2 | C |
| 22 | 478 | 2.4 | 39 | C | 2.6 | -20 | 211 | -2.1 | -0.9 | -1.2 | 0 | C |
| 23 | 462 | 2.6 | 44 | C | 1.8 | -22 | 267 | -0.1 | -0.8 | -0.7 | 1 | C |
| 24 | 460 | 2.5 | 37 | C | 2.2 | 48 | 327 | 1.1 | -1.1 | 1.1 | 1 | C |

JAN. 7, 1980 — 7

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 461 | 2.5 | 33 | C | 2.4 | 49 | 284 | 0.4 | -1.8 | 1.1 | 1 | C |
| 2 | 451 | 2.7 | 41 | C | 2.4 | 32 | 334 | 1.7 | -1.1 | 0.9 | 1 | C |
| 3 | 451 | 2.7 | 39 | C | 2.5 | 14 | 295 | 0.8 | -1.7 | 0.0 | 1 | C |
| 4 | 440 | 2.7 | 40 | C | 2.3 | 13 | 327 | 1.8 | -1.2 | 0.2 | 0 | C |
| 5 | 436 | 3.1 | 44 | C | 2.4 | 4 | 341 | 2.2 | -0.8 | 0.1 | 0 | C |
| 6 | 442 | 2.8 | 0 | C | 2.5 | 10 | 345 | 2.4 | -0.7 | 0.4 | 0 | C |
| 7 | 428 | 3.1 | 38 | C | 3.0 | 9 | 360 | 2.9 | -0.0 | 0.5 | 0 | C |
| 8 | 425 | 3.1 | 34 | C | 3.0 | 11 | 1 | 2.9 | 0.1 | 0.6 | 0 | C |
| 9 | 420 | 3.1 | 34 | C | 2.9 | 10 | 359 | 2.9 | -0.0 | 0.5 | 0 | C |
| 10 | 414 | 2.9 | 37 | C | 3.1 | 11 | 1 | 3.1 | 0.1 | 0.6 | 0 | C |
| 11 | 410 | 3.4 | 37 | C | 3.0 | 11 | 357 | 2.9 | -0.1 | 0.6 | 0 | C |
| 12 | 405 | 3.5 | 33 | C | 2.9 | 8 | 352 | 2.8 | -0.4 | 0.4 | 0 | C |
| 13 | 400 | 3.6 | 32 | C | 2.8 | -2 | 344 | 2.7 | -0.7 | -0.0 | 0 | C |
| 14 | 404 | 3.5 | 37 | C | 2.8 | 4 | 353 | 2.7 | -0.3 | 0.2 | 0 | C |
| 15 | 401 | 3.6 | 36 | C | 2.8 | 12 | 353 | 2.7 | -0.3 | 0.6 | 0 | C |
| 16 | 395 | 4.2 | 27 | C | 3.0 | 29 | 1 | 2.1 | -0.1 | 1.2 | 2 | C |
| 17 | 401 | 5.7 | 24 | C | 2.5 | 75 | 112 | -0.2 | 0.3 | 2.2 | 1 | C |
| 18 | 372 | 7.7 | 0 | C | 1.7 | -34 | 310 | 0.7 | -0.7 | -0.8 | 0 | C |
| 19 | 387 | 5.9 | 28 | C | 3.0 | -25 | 322 | 2.1 | -1.3 | -1.5 | 1 | C |
| 20 | 390 | 5.3 | 24 | C | 3.4 | -5 | 300 | 1.7 | -2.7 | -1.1 | 1 | C |
| 21 | 393 | 6.4 | 28 | C | 3.0 | -11 | 296 | 1.2 | -2.2 | -1.2 | 1 | C |
| 22 | 398 | 6.7 | 29 | C | 3.4 | 8 | 282 | 0.7 | -3.1 | -0.6 | 1 | C |
| 23 | 404 | 8.1 | 26 | C | 3.3 | -75 | 144 | -0.5 | 1.2 | -2.1 | 2 | C |
| 24 | 403 | 5.4 | 19 | C | 5.4 | -76 | 168 | -1.3 | 2.0 | -4.8 | 1 | C |

JAN. 8, 1980 — 8

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 6.6 | 25 | C | 6.1 | -53 | 118 | -1.7 | 4.6 | -3.5 | 1 | C |
| 2 | 396 | 8.4 | 37 | C | 4.7 | -13 | 88 | 0.2 | 4.3 | 0.3 | 2 | C |
| 3 | 398 | 6.3 | 42 | C | 4.9 | -5 | 90 | -0.0 | 4.7 | 0.9 | 1 | C |
| 4 | 395 | 4.0 | 58 | C | 6.5 | -7 | 99 | -1.0 | 6.3 | 0.5 | 1 | C |
| 5 | 396 | 4.5 | 76 | C | 6.0 | -23 | 117 | -2.4 | 4.9 | -1.5 | 2 | C |
| 6 | 355 | 6.3 | 0 | C | | | | | | | | |
| 7 | 408 | 4.5 | 60 | C | 6.2 | -60 | 53 | 1.8 | 2.6 | -5.3 | 0 | C |
| 8 | 393 | 4.5 | 63 | C | 6.1 | -44 | 109 | -1.0 | 2.9 | -3.1 | 4 | C |
| 9 | 389 | 4.5 | 52 | C | 6.3 | -7 | 113 | -2.3 | 5.4 | -1.0 | 2 | C |
| 10 | 397 | 4.7 | 46 | C | 7.2 | 13 | 115 | -2.8 | 6.0 | 1.1 | 2 | C |
| 11 | 430 | 4.8 | 55 | C | 7.7 | 8 | 98 | -1.0 | 6.7 | 0.3 | 3 | C |
| 12 | 446 | 5.0 | 34 | C | 8.4 | 75 | 318 | 1.5 | -0.8 | 7.5 | 3 | C |
| 13 | 434 | 5.1 | 16 | C | 9.8 | 70 | 282 | 0.7 | -2.7 | 9.2 | 2 | C |
| 14 | 437 | 5.2 | 18 | C | 9.9 | 77 | 19 | 2.1 | 0.9 | 9.5 | 1 | C |
| 15 | 437 | 4.5 | 17 | C | 9.6 | 69 | 43 | 2.5 | 2.1 | 9.1 | 0 | C |
| 16 | 436 | 5.0 | 19 | C | 9.5 | 64 | 40 | 3.2 | 2.1 | 8.7 | 0 | C |
| 17 | 420 | 4.2 | 19 | C | 9.5 | 83 | 354 | 1.2 | -1.2 | 9.2 | 2 | C |
| 18 | 425 | 4.2 | 22 | C | 9.4 | 77 | 60 | 1.0 | 0.2 | 9.3 | 1 | C |
| 19 | 427 | 4.0 | 20 | C | 9.5 | 77 | 47 | 1.4 | -0.5 | 9.2 | 2 | C |
| 20 | 423 | 3.9 | 21 | C | 9.6 | 73 | 56 | 1.5 | -0.2 | 9.4 | 1 | C |
| 21 | 416 | 3.7 | 22 | C | 9.7 | 83 | 285 | 0.3 | -3.7 | 8.3 | 3 | C |
| 22 | 428 | 3.9 | 28 | C | 9.9 | 75 | 315 | 1.5 | -4.2 | 7.3 | 5 | C |
| 23 | 458 | 3.7 | 28 | C | 10.1 | 61 | 352 | 4.7 | -3.5 | 7.7 | 2 | C |
| 24 | 416 | 4.2 | 23 | C | 9.8 | 83 | 19 | 1.2 | -2.8 | 8.8 | 3 | C |

JAN. 9, 1980 — 9

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 392 | 4.2 | 25 | C | 9.9 | 50 | 96 | -0.6 | 3.2 | 8.6 | 3 | C |
| 2 | 400 | 4.7 | 55 | C | 9.6 | 29 | 97 | -0.9 | 5.8 | 6.2 | 4 | C |
| 3 | 387 | 4.7 | 80 | C | 9.6 | -7 | 108 | -2.9 | 9.0 | 1.3 | 1 | C |
| 4 | 390 | 2.8 | 82 | C | | | | | | | | |
| 5 | 380 | 3.3 | 0 | C | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 373 | 2.2 | 0 | C | 9.6 | 9 | 101 | -1.9 | 9.2 | 1.8 | 0 | C |
| 8 | 374 | 2.0 | 68 | C | 9.5 | 9 | 104 | -2.3 | 9.0 | 1.4 | 1 | C |
| 9 | 366 | 1.8 | 56 | C | 9.4 | 14 | 107 | -2.6 | 8.8 | 1.9 | 0 | C |
| 10 | 364 | 1.7 | 47 | C | 9.5 | 16 | 108 | -2.8 | 8.7 | 2.0 | 1 | C |
| 11 | 362 | 1.6 | 49 | C | 9.3 | 5 | 109 | -2.9 | 8.7 | 0.2 | 2 | C |
| 12 | 381 | 1.6 | 52 | C | 9.5 | 20 | 98 | -1.2 | 9.0 | 2.6 | 1 | C |
| 13 | 375 | 1.5 | 36 | C | 9.4 | 13 | 103 | -2.0 | 8.8 | 1.7 | 1 | C |
| 14 | 351 | 1.4 | 35 | C | 9.4 | 8 | 108 | -2.8 | 8.7 | 1.1 | 2 | C |
| 15 | 349 | 1.5 | 33 | C | 9.2 | -4 | 114 | -3.7 | 8.2 | -0.5 | 1 | C |
| 16 | 364 | 1.2 | 23 | C | | | | | | | | |
| 17 | 371 | 1.2 | 17 | C | 9.3 | 11 | 112 | -3.3 | 8.0 | 2.8 | 1 | C |
| 18 | 355 | 1.2 | 23 | C | | | | | | | | |
| 19 | 337 | 1.2 | 21 | C | 9.2 | 9 | 113 | -3.4 | 7.6 | 3.3 | 2 | C |
| 20 | 379 | 1.0 | 27 | C | | | | | | | | |
| 21 | 370 | 1.0 | 23 | C | 9.2 | 17 | 117 | -3.9 | 6.5 | 4.9 | 2 | C |
| 22 | 360 | 1.0 | 19 | C | 9.1 | 14 | 107 | -2.5 | 7.1 | 4.8 | 1 | C |
| 23 | 358 | 1.1 | 15 | C | 9.1 | 12 | 107 | -2.5 | 7.2 | 4.7 | 1 | C |
| 24 | 369 | 1.0 | 16 | C | 9.0 | 17 | 111 | -3.1 | 6.6 | 5.3 | 1 | C |

# 01/10/80 – 01/17/80

JAN. 10, 1980 10

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 353 | 0.9 | 12 | C | 9.1 | 13 | 110 | -3.0 | 7.0 | 4.7 | 1 | C |
| 2 | 355 | 0.9 | 15 | C | 9.0 | 9 | 107 | -2.5 | 7.7 | 4.0 | 0 | C |
| 3 | 332 | 0.8 | 13 | C | 9.0 | 5 | 105 | -2.3 | 8.1 | 3.2 | 1 | C |
| 4 | 339 | 0.7 | 14 | C | 9.0 | 0 | 108 | -2.8 | 8.2 | 1.9 | 1 | C |
| 5 | 348 | 0.6 | 19 | C | 8.8 | 1 | 111 | -3.1 | 8.1 | 1.4 | 1 | C |
| 6 | 343 | 1.2 | 15 | C | 8.8 | -5 | 109 | -2.9 | 8.3 | 0.0 | 0 | C |
| 7 | 323 | 1.2 | 12 | C | 8.6 | 2 | 107 | -2.6 | 8.1 | 0.7 | 1 | C |
| 8 | 310 | 1.3 | 21 | C | 8.6 | 1 | 109 | -2.8 | 8.1 | 0.1 | 1 | C |
| 9 | 326 | 1.3 | 14 | C | 8.6 | -6 | 118 | -4.0 | 7.5 | -1.2 | 1 | C |
| 10 | 341 | 1.3 | 10 | C | 8.6 | -18 | 121 | -4.2 | 6.8 | -3.0 | 1 | C |
| 11 | 333 | 1.3 | 13 | C | 8.5 | -3 | 115 | -3.6 | 7.6 | -1.0 | 1 | C |
| 12 | 320 | 1.6 | 15 | C | 8.6 | -3 | 112 | -3.2 | 7.8 | -0.8 | 1 | C |
| 13 | 322 | 2.3 | 14 | C | 8.5 | 0 | 122 | -4.4 | 7.2 | -0.3 | 0 | C |
| 14 | 285 | 2.0 | 158 | L | 8.0 | -8 | 111 | -2.9 | 7.4 | -1.2 | 1 | C |
| 15 | 287 | 1.6 | 142 | L | 8.0 | -12 | 108 | -2.4 | 7.5 | -1.4 | 0 | C |
| 16 | 297 | 2.0 | 158 | L | 8.1 | -8 | 111 | -2.8 | 7.6 | -0.5 | 0 | C |
| 17 | 361 | 3.5 | 13 | C | 8.1 | -5 | 107 | -2.3 | 7.7 | 0.3 | 1 | C |
| 18 | 357 | 3.6 | 15 | C |  |  |  |  |  |  |  |  |
| 19 | 346 | 4.5 | 15 | C | 7.9 | -1 | 112 | -3.0 | 7.2 | 1.5 | 1 | C |
| 20 | 345 | 5.0 | 16 | C | 7.9 | -1 | 117 | -3.6 | 6.8 | 1.8 | 0 | C |
| 21 | 345 | 4.8 | 15 | C | 8.0 | -1 | 117 | -3.7 | 6.8 | 2.1 | 0 | C |
| 22 | 364 | 3.0 | 22 | C | 8.4 | 4 | 113 | -3.2 | 7.0 | 3.1 | 0 | C |
| 23 | 371 | 1.9 | 47 | C |  |  |  |  |  |  |  |  |
| 24 | 355 | 1.4 | 40 | C | 8.5 | 0 | 112 | -3.2 | 7.4 | 2.9 | 1 | C |

JAN. 11, 1980 11

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 339 | 1.1 | 46 | C |  |  |  |  |  |  |  |  |
| 2 | 337 | 0.9 | 40 | C | 8.5 | -5 | 117 | -3.8 | 7.4 | 1.7 | 1 | C |
| 3 | 325 | 0.8 | 29 | C |  |  |  |  |  |  |  |  |
| 4 | 322 | 1.0 | 43 | C | 8.5 | -13 | 121 | -4.2 | 7.4 | -0.2 | 1 | C |
| 5 | 322 | 0.9 | 36 | C | 8.6 | -24 | 118 | -3.8 | 7.4 | -2.2 | 0 | C |
| 6 | 381 | 1.1 | 174 | C | 8.7 | -19 | 120 | -4.1 | 7.3 | -2.0 | 0 | C |
| 7 | 407 | 1.3 | 205 | C | 8.7 | -18 | 120 | -4.2 | 7.2 | -2.3 | 0 | C |
| 8 | 363 | 2.1 | 155 | C | 6.5 | -12 | 130 | -3.9 | 4.6 | -1.3 | 2 | C |
| 9 | 373 | 3.1 | 138 | C | 9.0 | -19 | 122 | -4.4 | 6.9 | -3.0 | 3 | C |
| 10 | 417 | 4.5 | 171 | C | 11.1 | -27 | 116 | -4.2 | 8.3 | -5.4 | 2 | C |
| 11 | 399 | 5.0 | 140 | C | 10.5 | -13 | 119 | -4.8 | 8.4 | -2.8 | 3 | C |
| 12 | 397 | 5.6 | 58 | C | 10.4 | -18 | 111 | -3.6 | 8.9 | -3.6 | 2 | C |
| 13 | 391 | 5.5 | 50 | C | 10.4 | 11 | 115 | -3.8 | 8.3 | 1.5 | 4 | C |
| 14 | 391 | 4.9 | 46 | C | 10.8 | 38 | 124 | -4.6 | 6.9 | 6.4 | 3 | C |
| 15 | 369 | 3.7 | 37 | C | 10.2 | -27 | 125 | -5.1 | 7.4 | -4.2 | 2 | C |
| 16 | 371 | 5.6 | 32 | C | 9.8 | -31 | 131 | -5.5 | 6.7 | -4.5 | 1 | C |
| 17 | 366 | 7.0 | 29 | C | 9.0 | -30 | 127 | -4.6 | 6.8 | -3.5 | 1 | C |
| 18 | 365 | 5.3 | 36 | C | 9.2 | -44 | 163 | -5.7 | 2.8 | -5.3 | 4 | C |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | 331 | 5.0 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 363 | 4.7 | 42 | C | 7.1 | 9 | 136 | -5.0 | 4.1 | 2.8 | 1 | C |

JAN. 12, 1980 12

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 374 | 3.8 | 77 | C | 7.2 | 2 | 129 | -4.4 | 5.1 | 2.2 | 1 | C |
| 2 | 361 | 3.3 | 66 | C | 7.4 | 42 | 133 | -3.4 | 2.0 | 5.4 | 3 | C |
| 3 | 382 | 2.7 | 75 | C | 7.9 | 60 | 127 | -2.3 | 1.0 | 7.4 | 1 | C |
| 4 | 381 | 4.0 | 96 | C | 7.5 | 39 | 123 | -2.8 | 3.3 | 5.1 | 3 | C |
| 5 | 393 | 3.6 | 85 | C | 6.9 | 26 | 131 | -3.8 | 3.8 | 3.5 | 2 | C |
| 6 | 392 | 3.4 | 96 | C | 6.7 | 34 | 132 | -3.1 | 3.0 | 3.5 | 2 | C |
| 7 | 391 | 3.5 | 97 | C | 6.8 | 46 | 151 | -3.7 | 1.8 | 4.4 | 2 | C |
| 8 | 421 | 3.6 | 97 | J | 6.5 | 17 | 136 | -4.1 | 3.9 | 1.8 | 2 | C |
| 9 | 427 | 3.6 | 90 | J | 7.0 | 71 | 198 | -2.0 | -0.5 | 6.2 | 2 | J |
| 10 | 412 | 3.6 | 86 | J | 7.1 | 34 | 126 | -3.0 | 4.2 | 3.2 | 4 | J |
| 11 | 445 | 3.8 | 88 | J | 6.9 | 3 | 94 | -0.4 | 5.6 | 2.9 | 3 | J |
| 12 | 403 | 3.5 | 80 | C | 6.7 | 40 | 133 | -2.9 | 3.3 | 3.5 | 3 | C |
| 13 | 381 | 3.6 | 76 | C | 6.4 | 1 | 166 | -5.6 | 1.4 | 0.1 | 2 | C |
| 14 | 418 | 3.6 | 91 | C | 6.4 | 56 | 116 | -1.1 | 2.3 | 3.8 | 4 | C |
| 15 | 399 | 3.3 | 66 | J | 6.9 | 30 | 127 | -3.2 | 4.1 | 3.3 | 3 | J |
| 16 | 428 | 2.9 | 63 | J | 6.7 | 62 | 84 | 0.3 | 2.2 | 5.3 | 4 | J |
| 17 | 399 | 2.9 | 68 | J | 6.5 | 40 | 128 | -2.7 | 2.9 | 4.2 | 3 | J |
| 18 | 409 | 3.1 | 76 | J | 6.5 | 48 | 115 | -1.6 | 2.5 | 4.7 | 4 | J |
| 19 | 391 | 3.2 | 60 | J | 6.7 | 40 | 140 | -3.1 | 1.7 | 3.9 | 4 | J |
| 20 | 388 | 3.4 | 66 | J | 6.7 | 22 | 134 | -3.9 | 3.2 | 3.3 | 3 | J |
| 21 | 406 | 3.8 | 108 | J | 6.4 | 53 | 116 | -1.6 | 1.5 | 5.6 | 2 | J |
| 22 | 411 | 3.7 | 98 | J | 6.2 | 33 | 119 | -1.8 | 2.2 | 3.5 | 4 | J |
| 23 | 417 | 3.8 | 121 | J | 6.0 | 72 | 117 | -0.8 | -0.5 | 5.6 | 2 | J |
| 24 | 413 | 3.8 | 88 | J | 5.9 | 72 | 141 | -1.2 | -0.8 | 4.6 | 3 | J |

JAN. 13, 1980 13

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 406 | 3.9 | 70 | J | 6.4 | 67 | 151 | -2.2 | -1.0 | 5.8 | 1 | J |
| 2 | 413 | 4.0 | 77 | J | 6.8 | 59 | 117 | -1.5 | 0.9 | 6.1 | 2 | J |
| 3 | 385 | 4.3 | 78 | C | 6.2 | 67 | 224 | -1.5 | -2.8 | 4.2 | 4 | J |
| 4 | 362 | 4.7 | 68 | C | 6.5 | 70 | 155 | -1.9 | -0.5 | 5.9 | 2 | J |
| 5 | 378 | 4.4 | 60 | C | 6.2 | 35 | 148 | -4.2 | 1.9 | 3.9 | 2 | J |
| 6 | 419 | 4.9 | 70 | C | 8.0 | 75 | 115 | -0.8 | 0.9 | 7.2 | 3 | C |
| 7 | 492 | 7.6 | 208 | J | 11.8 | -33 | 106 | -2.5 | 9.2 | -5.3 | 4 | J |
| 8 | 466 | 8.0 | 242 | J | 10.3 | -58 | 138 | -3.5 | 3.3 | -7.4 | 5 | J |
| 9 | 484 | 7.3 | 147 | J | 10.8 | -19 | 102 | -1.1 | 5.3 | -2.0 | 9 | J |
| 10 | 477 | 6.2 | 122 | C | 11.5 | -11 | 116 | -4.5 | 9.1 | -2.3 | 5 | J |
| 11 | 457 | 6.1 | 111 | C | 10.9 | -53 | 194 | -5.5 | -1.7 | -7.5 | 6 | J |
| 12 | 466 | 7.2 | 113 | J | 11.2 | -65 | 147 | -3.8 | 2.1 | -9.9 | 3 | J |
| 13 | 467 | 6.4 | 87 | J | 10.9 | -70 | 222 | -2.7 | -2.6 | -10.0 | 2 | J |
| 14 | 474 | 6.5 | 97 | J | 9.7 | -75 | 232 | -1.5 | -1.8 | -9.2 | 2 | J |
| 15 | 457 | 5.7 | 76 | C | 9.5 | -56 | 119 | -1.2 | 2.4 | -3.7 | 8 | C |
| 16 | 462 | 5.6 | 77 | C | 9.0 | -57 | 104 | -1.1 | 5.3 | -6.8 | 1 | C |
| 17 | 452 | 6.1 | 68 | C | 8.9 | -65 | 112 | -1.4 | 4.5 | -7.1 | 2 | C |
| 18 | 462 | 7.6 | 72 | J | 8.3 | -71 | 114 | -1.1 | 4.0 | -7.1 | 1 | J |
| 19 | 456 | 7.7 | 83 | J | 8.2 | -67 | 129 | -2.0 | 4.3 | -6.6 | 1 | J |
| 20 | 447 | 7.5 | 44 | J | 8.7 | -58 | 114 | -1.8 | 6.0 | -5.6 | 2 | J |
| 21 | 442 | 7.4 | 33 | J | 8.9 | -70 | 109 | -1.0 | 5.4 | -6.8 | 2 | J |
| 22 | 436 | 6.5 | 31 | J | 8.9 | -57 | 104 | -1.2 | 6.9 | -5.1 | 2 | J |
| 23 | 426 | 6.7 | 34 | J | 8.8 | -59 | 109 | -1.4 | 6.6 | -5.3 | 2 | J |
| 24 | 426 | 8.1 | 35 | J | 8.1 | -43 | 99 | -0.9 | 7.2 | -2.8 | 2 | J |

JAN. 14, 1980 14

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 422 | 9.0 | 34 | J | 8.0 | -16 | 101 | -1.4 | 7.3 | 0.7 | 3 | J |
| 2 | 417 | 11.0 | 28 | J | 7.2 | -38 | 124 | -2.8 | 5.2 | -2.3 | 4 | J |
| 3 | 414 | 10.2 | 21 | J | 6.2 | -25 | 120 | -2.7 | 5.3 | -1.0 | 2 | J |
| 4 | 406 | 6.9 | 20 | J | 5.6 | -7 | 103 | -1.2 | 5.3 | 0.7 | 1 | J |
| 5 | 421 | 6.3 | 26 | C | 5.4 | -11 | 84 | 0.5 | 5.0 | -0.0 | 2 | C |
| 6 | 423 | 6.2 | 29 | C | 5.8 | 3 | 61 | 2.8 | 4.9 | 1.0 | 1 | C |
| 7 | 397 | 6.3 | 23 | C | 5.1 | -28 | 98 | -0.6 | 4.6 | -2.1 | 0 | J |
| 8 | 396 | 7.4 | 23 | J | 4.7 | -13 | 108 | -1.2 | 3.6 | -0.8 | 3 | J |
| 9 | 394 | 8.3 | 50 | J | 5.3 | -29 | 184 | -4.6 | -0.4 | -2.6 | 1 | J |
| 10 | 403 | 8.0 | 24 | J | 5.5 | -11 | 150 | -4.3 | 2.5 | -1.1 | 2 | J |
| 11 | 391 | 7.5 | 25 | C | 5.8 | -8 | 161 | -5.3 | 1.8 | -0.9 | 1 | C |
| 12 | 403 | 10.1 | 20 | J | 4.7 | -15 | 166 | -3.9 | 0.9 | -1.1 | 2 | J |
| 13 | 396 | 10.2 | 24 | J | 4.3 | -10 | 171 | -3.9 | 0.6 | -0.7 | 2 | J |
| 14 | 397 | 7.5 | 19 | J | 6.1 | -15 | 157 | -5.2 | 2.3 | -1.5 | 2 | J |
| 15 | 402 | 6.0 | 16 | J | 6.0 | -19 | 176 | -5.1 | 0.5 | -1.7 | 3 | J |
| 16 | 388 | 6.9 | 20 | C | 5.8 | -15 | 196 | -5.3 | -1.3 | -1.6 | 1 | C |
| 17 | 393 | 5.8 | 27 | J | 6.2 | -13 | 184 | -5.6 | -0.2 | -1.4 | 2 | J |
| 18 | 388 | 6.7 | 30 | J | 6.1 | -13 | 168 | -5.7 | 1.5 | -1.1 | 1 | J |
| 19 | 382 | 7.0 | 37 | J | 6.2 | -10 | 164 | -5.8 | 1.9 | -0.6 | 1 | J |
| 20 | 391 | 7.5 | 25 | J | 7.1 | -7 | 143 | -5.5 | 4.2 | 0.5 | 2 | J |
| 21 | 402 | 8.4 | 20 | J | 8.7 | -7 | 134 | -5.9 | 6.1 | 1.1 | 2 | J |
| 22 | 403 | 8.6 | 28 | J | 8.6 | -17 | 132 | -5.2 | 6.2 | -0.1 | 3 | J |
| 23 | 400 | 6.9 | 23 | J | 8.7 | -9 | 132 | -5.4 | 6.0 | 1.1 | 3 | J |
| 24 | 420 | 9.4 | 28 | J | 9.5 | 31 | 109 | -2.5 | 4.9 | 7.0 | 3 | J |

JAN. 15, 1980 15

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 409 | 9.0 | 30 | C | 10.1 | 45 | 111 | -2.4 | 3.2 | 8.3 | 4 | C |
| 2 | 408 | 8.0 | 30 | C | 10.4 | 45 | 94 | -0.5 | 4.2 | 9.0 | 3 | C |
| 3 | 390 | 7.7 | 30 | C | 10.5 | 24 | 107 | -2.7 | 7.3 | 6.7 | 2 | C |
| 4 | 389 | 7.8 | 27 | J | 8.3 | 3 | 117 | -3.7 | 6.9 | 2.3 | 1 | J |
| 5 | 380 | 8.0 | 26 | J | 7.9 | 7 | 122 | -4.1 | 6.2 | 2.2 | 1 | J |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 372 | 8.8 | 21 | J | 7.6 | -14 | 137 | -5.0 | 4.8 | -1.3 | 3 | J |
| 8 | 371 | 8.1 | 25 | J | 7.3 | -31 | 155 | -5.6 | 2.7 | -3.6 | 2 | J |
| 9 | 364 | 7.3 | 39 | J | 6.7 | -23 | 163 | -5.4 | 1.6 | -2.4 | 3 | J |
| 10 | 356 | 5.4 | 47 | J | 6.2 | -3 | 174 | -6.0 | 0.6 | -0.3 | 1 | J |
| 11 | 347 | 7.5 | 25 | C | 8.5 | 6 | 173 | -8.3 | 1.1 | 0.8 | 1 | C |
| 12 | 348 | 6.1 | 22 | C | 7.7 | -15 | 199 | -7.0 | -2.5 | -1.9 | 1 | C |
| 13 | 350 | 5.9 | 33 | C | 5.8 | -10 | 167 | -4.7 | 1.0 | -0.9 | 3 | C |
| 14 | 355 | 6.6 | 35 | C | 6.0 | 33 | 148 | -4.1 | 2.5 | 3.2 | 1 | C |
| 15 | 354 | 6.9 | 37 | C | 6.8 | 23 | 131 | -3.9 | 4.4 | 2.9 | 1 | C |
| 16 | 358 | 7.6 | 45 | C | 6.8 | -1 | 136 | -4.1 | 3.9 | 0.4 | 3 | C |
| 17 | 375 | 8.1 | 50 | J | 6.6 | -32 | 123 | -2.6 | 4.4 | -2.3 | 3 | J |
| 18 | 384 | 7.8 | 39 | J | 6.8 | -69 | 239 | -1.3 | -0.7 | -6.7 | 1 | J |
| 19 | 371 | 7.6 | 38 | J | 6.9 | 25 | 124 | -3.3 | 4.0 | 4.0 | 2 | J |
| 20 | 355 | 7.7 | 41 | J | 7.3 | -21 | 152 | -5.6 | 3.6 | -1.4 | 3 | J |
| 21 | 347 | 7.4 | 31 | J | 7.6 | 2 | 150 | -5.9 | 3.1 | 1.4 | 3 | J |
| 22 | 355 | 8.9 | 39 | C | 8.3 | 3 | 130 | -5.0 | 5.4 | 2.6 | 2 | C |
| 23 | 353 | 9.4 | 35 | J | 9.2 | 20 | 144 | -6.9 | 3.4 | 4.8 | 1 | J |
| 24 | 351 | 10.0 | 27 | J | 10.6 | -13 | 148 | -8.3 | 5.7 | -0.1 | 3 | J |

JAN. 16, 1980 16

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 365 | 7.0 | 26 | J | 9.0 | -67 | 155 | -3.0 | 4.2 | -6.7 | 3 | J |
| 2 | 379 | 6.5 | 25 | J | 8.7 | -55 | 101 | -0.9 | 6.6 | -4.6 | 3 | J |
| 3 | 379 | 6.9 | 28 | J | 9.2 | -57 | 104 | -1.2 | 6.9 | -5.7 | 2 | J |
| 4 | 376 | 5.5 | 24 | J | 9.0 | -42 | 120 | -3.3 | 7.0 | -4.2 | 2 | J |
| 5 | 379 | 4.9 | 28 | J | 9.0 | -35 | 110 | -2.5 | 7.8 | -3.6 | 1 | J |
| 6 | 386 | 3.8 | 56 | J | 8.8 | -38 | 114 | -2.8 | 7.0 | -4.4 | 2 | J |
| 7 | 387 | 3.4 | 50 | J | 9.0 | -26 | 121 | -4.1 | 7.1 | -3.2 | 1 | J |
| 8 | 375 | 1.9 | 41 | J | 9.2 | -5 | 127 | -5.5 | 7.3 | -0.5 | 2 | J |
| 9 | 423 | 1.5 | 48 | J | 8.7 | -6 | 116 | -3.8 | 7.7 | -0.9 | 1 | J |
| 10 | 408 | 1.8 | 47 | J | 8.4 | 4 | 133 | -5.7 | 6.1 | 0.5 | 1 | J |
| 11 | 402 | 1.5 | 38 | J | 8.7 | 3 | 132 | -5.8 | 6.4 | 0.3 | 1 | J |
| 12 | 399 | 2.4 | 75 | C | 8.6 | 4 | 130 | -5.5 | 6.5 | 0.5 | 2 | J |
| 13 | 414 | 2.2 | 62 | J | 8.4 | 10 | 133 | -5.4 | 5.8 | 1.4 | 3 | J |
| 14 | 451 | 2.3 | 117 | C | 8.6 | 21 | 153 | -6.1 | 3.1 | 2.7 | 4 | C |
| 15 | 495 | 1.8 | 115 | C | 8.6 | 42 | 168 | -6.2 | 0.9 | 5.8 | 1 | C |
| 16 | 491 | 1.8 | 120 | C | 8.4 | 36 | 168 | -6.6 | 0.8 | 5.0 | 1 | C |
| 17 | 503 | 1.5 | 121 | C | 8.0 | 23 | 160 | -6.7 | 1.9 | 3.5 | 1 | C |
| 18 | 477 | 1.8 | 115 | C | 7.9 | 18 | 152 | -6.6 | 2.8 | 3.1 | 2 | J |
| 19 | 517 | 1.4 | 79 | J | 7.9 | 35 | 159 | -5.9 | 1.0 | 4.9 | 1 | J |
| 20 | 511 | 1.3 | 94 | J | 8.2 | 33 | 165 | -6.6 | 0.3 | 4.7 | 1 | J |
| 21 | 493 | 1.6 | 153 | C | 8.1 | 36 | 152 | -5.7 | 1.2 | 5.5 | 1 | J |
| 22 | 483 | 1.9 | 130 | C | 8.4 | 26 | 154 | -6.7 | 1.6 | 4.6 | 1 | J |
| 23 | 468 | 2.3 | 98 | C | 8.1 | 36 | 152 | -5.7 | 0.9 | 5.5 | 1 | J |
| 24 | 475 | 2.5 | 58 | J | 8.2 | 22 | 157 | -6.8 | 1.5 | 3.9 | 2 | J |

JAN. 17, 1980 17

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 471 | 2.4 | 72 | J | 8.1 | 37 | 150 | -5.5 | 1.1 | 5.6 | 2 | J |
| 2 | 475 | 1.9 | 72 | J | 8.7 | 45 | 140 | -4.7 | 1.5 | 7.2 | 1 | J |
| 3 | 479 | 3.0 | 75 | J | 8.3 | 3 | 145 | -5.4 | 3.5 | 1.5 | 5 | J |
| 4 | 456 | 2.2 | 125 | J | 8.1 | 33 | 137 | -4.8 | 3.2 | 5.3 | 2 | J |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 495 | 5.1 | 144 | J | 10.6 | -36 | 144 | -6.5 | 5.2 | -5.3 | 4 | J |
| 8 | 502 | 5.9 | 193 | J | 9.6 | 4 | 116 | -3.6 | 7.4 | 0.9 | 5 | J |
| 9 | 484 | 5.3 | 169 | J | 8.7 | -4 | 150 | -6.2 | 3.6 | -0.5 | 5 | J |
| 10 | 470 | 5.3 | 117 | J | 8.1 | -12 | 152 | -6.6 | 3.5 | -1.6 | 3 | J |
| 11 | 466 | 6.6 | 144 | J | 6.9 | 2 | 138 | -4.3 | 3.9 | 0.1 | 4 | J |
| 12 | 470 | 6.8 | 123 | J | 6.6 | 3 | 127 | -3.5 | 4.7 | 0.3 | 3 | J |
| 13 | 462 | 6.1 | 82 | J | 7.0 | 21 | 129 | -4.1 | 5.0 | 2.5 | 1 | J |
| 14 | 446 | 6.4 | 90 | C | 7.3 | -10 | 134 | -3.9 | 4.0 | -0.8 | 4 | C |
| 15 | 440 | 6.5 | 93 | C | 6.8 | -5 | 177 | -5.9 | 0.4 | -0.5 | 3 | C |
| 16 | 453 | 6.3 | 93 | C | 6.5 | 26 | 137 | -3.9 | 3.3 | 3.1 | 1 | C |
| 17 | 477 | 7.3 | 97 | J | 6.4 | -17 | 124 | -2.7 | 4.2 | -0.7 | 4 | J |
| 18 | 472 | 6.4 | 95 | J | 7.1 | 18 | 109 | -2.1 | 5.5 | 3.5 | 1 | J |
| 19 | 468 | 5.8 | 68 | J | 6.8 | 30 | 102 | -1.2 | 4.4 | 4.7 | 2 | J |
| 20 | 460 | 4.4 | 107 | J | 6.1 | -14 | 136 | -3.9 | 4.0 | -0.1 | 3 | J |
| 21 | 456 | 4.1 | 72 | J | 6.1 | 12 | 104 | -1.4 | 4.9 | 3.2 | 1 | J |
| 22 | 459 | 3.6 | 64 | J | 6.4 | 15 | 109 | -2.0 | 4.8 | 3.8 | 1 | J |
| 23 | 465 | 3.4 | 81 | C | 6.6 | 13 | 102 | -1.3 | 4.8 | 3.7 | 2 | C |
| 24 | 500 | 3.8 | 90 | C | 6.5 | 26 | 76 | 1.3 | 3.8 | 4.6 | 1 | C |

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01/18/80 – 01/25/80

JAN. 18, 1980

18

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 527 | 4.5 | 77 | C | 5.7 | 28 | 333 | 3.6 | -2.6 | 1.3 | 3 | C |
| 2 | 518 | 4.4 | 39 | C | 6.4 | 19 | 324 | 4.6 | -3.9 | 0.6 | 2 | C |
| 3 | 521 | 4.4 | 52 | J | 5.4 | 17 | 322 | 4.1 | -3.5 | 0.5 | 0 | J |
| 4 | 490 | 4.1 | 108 | J | 5.1 | 18 | 137 | -2.8 | 2.2 | 1.9 | 3 | J |
| 5 | 470 | 3.0 | 68 | J | 5.4 | 2 | 145 | -4.4 | 3.0 | 0.9 | 1 | J |
| 6 | 467 | 3.1 | 58 | J | 5.1 | 20 | 141 | -3.7 | 2.6 | 2.2 | 1 | J |
| 7 | 476 | 3.2 | 128 | J | 5.4 | -4 | 147 | -4.4 | 2.9 | -0.1 | 1 | J |
| 8 | 478 | 3.0 | 128 | J | 5.5 | -13 | 147 | -4.4 | 2.9 | -1.1 | 1 | J |
| 9 | 481 | 2.3 | 98 | J | 5.4 | -15 | 150 | -4.4 | 2.6 | -1.3 | 1 | J |
| 10 | 475 | 2.3 | 89 | J | 5.5 | -10 | 155 | -4.8 | 2.2 | -0.9 | 1 | C |
| 11 | 462 | 2.2 | 49 | J | 5.5 | -10 | 153 | -4.8 | 2.5 | -1.0 | 1 | C |
| 12 | 463 | 2.0 | 44 | J | 5.4 | -13 | 164 | -5.0 | 1.4 | -1.2 | 0 | J |
| 13 | 453 | 1.7 | 34 | J | 5.5 | -12 | 165 | -5.2 | 1.4 | -1.1 | 0 | J |
| 14 | 446 | 1.6 | 32 | J | 5.5 | -14 | 162 | -5.1 | 1.7 | -1.3 | 0 | C |
| 15 | 445 | 2.0 | 68 | C | 5.4 | -16 | 164 | -5.0 | 1.6 | -1.4 | 0 | C |
| 16 | 442 | 2.0 | 61 | C | 5.4 | -12 | 164 | -5.0 | 1.6 | -0.9 | 1 | C |
| 17 | 446 | 2.0 | 68 | C | 5.5 | -12 | 161 | -5.0 | 1.9 | -0.8 | 0 | C |
| 18 | 434 | 1.9 | 59 | C | 5.5 | -14 | 163 | -5.0 | 1.8 | -0.9 | 0 | C |
| 19 | 423 | 3.1 | 49 | J | 5.7 | -10 | 176 | -5.2 | 0.6 | -0.8 | 2 | J |
| 20 | 419 | 3.3 | 47 | J | 5.8 | -12 | 174 | -5.3 | 0.9 | -0.9 | 2 | J |
| 21 | 421 | 4.0 | 33 | J | 5.4 | -12 | 184 | -5.0 | 0.1 | -1.1 | 1 | J |
| 22 | 417 | 4.6 | 35 | J | 5.4 | -10 | 181 | -5.3 | 0.3 | -0.9 | 0 | C |
| 23 | 416 | 5.1 | 33 | J | 5.5 | 6 | 202 | -4.4 | -1.8 | -0.3 | 2 | J |
| 24 | 412 | 6.2 | 39 | J | 5.7 | [illegible] | 205 | -4.4 | -1.9 | -0.8 | 2 | J |

JAN. 20, 1980

20

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 6.8 | 32 | C | 6.3 | 5 | 204 | -4.3 | -1.9 | -0.4 | 4 | C |
| 2 | 376 | 7.1 | 25 | C | 6.8 | -16 | 244 | -2.7 | -4.4 | -3.7 | 2 | C |
| 3 | 371 | 7.4 | 28 | C | 6.9 | -7 | 219 | -5.1 | -3.6 | -2.2 | 1 | C |
| 4 | 364 | 6.8 | 0 | C | 6.6 | -18 | 214 | -5.2 | -2.7 | -3.0 | 0 | C |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 352 | 7.3 | 50 | C | 5.7 | 25 | 173 | -4.4 | 0.3 | 2.1 | 2 | C |
| 8 | 355 | 6.7 | 49 | C | 5.7 | -13 | 199 | -4.8 | -1.6 | -1.2 | 2 | C |
| 9 | 352 | 7.5 | 57 | C | 5.9 | -6 | 184 | -5.2 | -0.3 | -0.5 | 2 | C |
| 10 | 362 | 7.9 | 60 | C | 5.8 | 34 | 147 | -3.8 | 2.5 | 3.1 | 2 | C |
| 11 | 357 | 7.9 | 61 | C | 5.5 | 3 | 130 | -3.3 | 3.9 | 0.2 | 2 | C |
| 12 | 358 | 6.8 | 56 | C | 5.2 | 5 | 129 | -2.8 | 3.5 | 0.4 | 2 | C |
| 13 | 348 | 7.5 | 55 | C | 4.8 | -13 | 165 | -3.4 | 1.0 | -0.8 | 3 | C |
| 14 | 349 | 7.8 | 56 | C | 4.9 | 9 | 126 | -2.6 | 3.6 | 0.9 | 1 | C |
| 15 | 348 | 8.1 | 58 | C | 5.1 | 21 | 136 | -2.9 | 2.6 | 1.8 | 3 | C |
| 16 | 347 | 7.9 | 59 | C | 5.0 | -19 | 131 | -3.0 | 3.6 | -1.1 | 1 | C |
| 17 | 340 | 7.5 | 54 | C | 5.0 | 10 | 177 | -3.8 | 0.0 | 0.7 | 3 | C |
| 18 | 350 | 7.5 | 59 | C | 5.2 | 56 | 157 | -2.4 | 0.0 | 3.9 | 2 | C |
| 19 | 353 | 7.4 | 75 | C | 5.3 | 4 | 234 | -2.8 | -3.8 | -0.8 | 2 | C |
| 20 | 367 | 7.1 | 81 | C | 5.9 | 36 | 230 | -2.5 | -3.8 | 1.6 | 3 | C |
| 21 | 360 | 7.1 | 75 | C | 5.4 | 14 | 220 | -3.5 | -3.1 | -0.0 | 2 | C |
| 22 | 372 | 7.1 | 72 | C | 6.6 | 24 | 251 | -1.8 | -6.0 | 0.2 | 2 | C |
| 23 | 368 | 7.1 | 80 | C | 6.8 | 31 | 243 | -2.3 | -5.4 | 0.9 | 3 | C |
| 24 | 371 | 7.4 | 90 | C | 6.2 | -21 | 213 | -2.5 | -1.0 | -1.7 | 5 | C |

JAN. 22, 1980

22

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 356 | 10.7 | 23 | C | 3.6 | 0 | 122 | -0.8 | 1.2 | 0.5 | 3 | C |
| 2 | 334 | 17.6 | 29 | C |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 332 | 16.3 | 0 | C | 4.2 | 9 | 329 | 3.6 | -2.2 | 0.4 | 0 | C |
| 8 | 338 | 15.6 | 35 | C | 6.2 | -2 | 328 | 4.8 | -2.9 | -0.5 | 3 | C |
| 9 | 342 | 14.1 | 27 | C | 6.9 | -2 | 294 | 2.7 | -6.0 | -0.5 | 1 | C |
| 10 | 336 | 14.4 | 31 | C | 5.1 | 0 | 255 | -0.6 | -2.3 | -0.1 | 4 | C |
| 11 | 334 | 14.8 | 17 | C | 7.0 | -7 | 108 | -2.0 | 6.2 | -0.7 | 2 | C |
| 12 | 334 | 17.8 | 14 | C | 7.9 | 0 | 111 | -2.8 | 7.3 | 0.2 | 1 | C |
| 13 | 327 | 17.7 | 15 | C | 7.6 | 2 | 105 | -1.9 | 7.2 | 0.5 | 1 | C |
| 14 | 319 | 16.1 | 16 | C | 7.3 | 5 | 104 | -1.7 | 6.9 | 1.2 | 1 | C |
| 15 | 320 | 18.6 | 16 | C | 6.3 | 2 | 107 | -1.8 | 5.8 | 0.8 | 1 | C |
| 16 | 316 | 19.5 | 20 | C | 5.2 | 0 | 112 | -1.9 | 4.7 | 0.8 | 1 | C |
| 17 | 315 | 22.3 | 21 | C | 4.8 | -5 | 106 | -1.2 | 4.2 | 0.5 | 2 | C |
| 18 | 310 | 23.0 | 25 | C | 3.1 | 4 | 88 | 0.1 | 2.5 | 0.9 | 2 | C |
| 19 | 314 | 13.5 | 30 | C | 5.9 | -17 | 288 | 1.6 | -4.3 | -3.2 | 2 | C |
| 20 | 316 | 14.8 | 36 | C | 6.2 | -19 | 277 | 0.6 | -4.5 | -3.8 | 2 | C |
| 21 | 313 | 13.9 | 47 | C | 6.4 | -77 | 50 | 0.6 | 2.1 | -3.2 | 5 | C |
| 22 | 313 | 13.0 | 48 | C | 5.8 | 7 | 293 | 1.8 | -4.1 | -1.3 | 3 | C |
| 23 | 311 | 12.7 | 42 | C | 6.3 | 29 | 296 | 2.3 | -5.5 | 0.6 | 2 | C |
| 24 | 314 | 12.9 | 51 | C | 5.7 | 5 | 300 | 2.5 | -4.2 | -1.5 | 2 | C |

JAN. 24, 1980

24

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 316 | 10.6 | 46 | C | 7.3 | 18 | 246 | -2.4 | -5.8 | -0.6 | 4 | C |
| 2 | 312 | 9.8 | 46 | C | 6.9 | 12 | 236 | -3.6 | -5.4 | -0.9 | 1 | C |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  | 5.5 | 20 | 329 | 4.0 | -2.8 | 1.0 | 2 | J |
| 6 |  |  |  |  | 6.1 | 12 | 272 | 0.2 | -5.7 | 0.1 | 2 | J |
| 7 | 308 | 7.6 | 48 | J | 5.6 | 16 | 285 | 1.3 | -5.2 | 0.8 | 1 | J |
| 8 | 315 | 8.1 | 45 | J | 5.0 | 24 | 274 | 0.3 | -4.1 | 1.4 | 2 | J |
| 9 | 313 | 8.8 | 44 | J | 5.3 | 7 | 266 | -0.3 | -4.7 | 0.3 | 2 | J |
| 10 | 308 | 7.9 | 43 | J | 5.4 | -48 | 259 | -0.7 | -3.2 | -3.9 | 2 | J |
| 11 | 307 | 7.5 | 40 | J | 4.4 | -22 | 289 | 0.8 | -2.2 | -1.0 | 4 | J |
| 12 | 303 | 7.6 | 33 | J | 5.7 | 2 | 293 | 1.7 | -4.1 | 0.0 | 4 | J |
| 13 | 304 | 8.0 | 25 | J | 4.8 | 25 | 291 | 1.0 | -2.8 | 1.2 | 4 | J |
| 14 | 306 | 8.6 | 30 | J | 4.4 | -10 | 282 | 0.7 | -3.4 | -0.9 | 3 | J |
| 15 | 306 | 8.7 | 32 | J | 4.6 | -38 | 285 | 0.8 | -2.5 | -2.6 | 3 | J |
| 16 | 308 | 9.0 | 31 | J | 4.6 | -35 | 268 | -0.1 | -3.0 | -3.0 | 2 | J |
| 17 | 302 | 8.6 | 45 | J | 4.2 | -30 | 333 | 3.2 | -1.1 | -2.4 | 1 | J |
| 18 | 304 | 8.4 | 33 | J | 4.4 | -59 | 346 | 2.0 | 0.5 | -3.5 | 2 | J |
| 19 | 308 | 8.2 | 26 | J | 4.5 | -42 | 285 | 0.6 | -1.4 | -2.6 | 3 | J |
| 20 | 309 | 7.4 | 23 | J | 5.0 | 64 | 283 | 0.4 | -3.1 | 2.9 | 3 | J |
| 21 | 308 | 7.1 | 21 | J | 5.2 | 48 | 290 | 1.1 | -4.4 | 2.2 | 1 | J |
| 22 | 301 | 9.0 | 27 | C | 5.1 | 26 | 277 | 0.5 | -4.8 | 0.1 | 2 | C |
| 23 | 306 | 8.9 | 33 | C | 4.7 | 11 | 263 | -0.4 | -3.8 | -1.0 | 2 | C |
| 24 | 304 | 10.4 | 18 | C | 3.8 | 52 | 278 | 0.3 | -2.7 | 1.3 | 2 | C |

JAN. 19, 1980

19

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 406 | 5.5 | 25 | C | 5.0 | 2 | 200 | -4.6 | -1.6 | -0.5 | 1 | C |
| 2 | 400 | 6.1 | 24 | C | 4.7 | 3 | 195 | -4.5 | -1.2 | -0.2 | 0 | C |
| 3 | 396 | 6.2 | 21 | C | 4.7 | 4 | 193 | -4.6 | -1.1 | -0.1 | 0 | C |
| 4 | 387 | 5.4 | 0 | C | 4.8 | 8 | 188 | -4.7 | -0.8 | 0.5 | 0 | C |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 380 | 6.8 | 14 | C | 4.6 | -13 | 190 | -4.4 | -0.7 | -1.1 | 0 | C |
| 8 | 377 | 6.5 | 19 | C | 4.6 | -9 | 198 | -4.3 | -1.4 | -0.8 | 0 | C |
| 9 | 376 | 6.9 | 19 | C | 4.7 | -6 | 201 | -4.3 | -1.6 | -0.5 | 1 | C |
| 10 | 379 | 7.0 | 19 | C | 4.9 | -3 | 215 | -4.0 | -2.8 | -0.3 | 0 | C |
| 11 | 372 | 7.0 | 17 | C | 5.0 | -1 | 207 | -4.4 | -2.2 | -0.1 | 1 | C |
| 12 | 381 | 3.8 | 23 | C | 5.9 | 14 | 191 | -5.6 | -1.1 | 1.4 | 1 | C |
| 13 | 379 | 4.8 | 21 | C | 5.6 | 11 | 200 | -5.0 | -1.8 | 1.0 | 1 | C |
| 14 | 375 | 5.9 | 21 | C | 5.2 | -11 | 197 | -4.5 | -1.3 | -1.0 | 2 | C |
| 15 | 373 | 5.8 | 21 | C | 5.3 | -3 | 207 | -4.6 | -2.3 | -0.5 | 1 | C |
| 16 | 375 | 5.9 | 23 | C | 5.3 | -4 | 213 | -4.3 | -2.7 | -0.7 | 1 | C |
| 17 | 370 | 6.4 | 23 | C | 5.3 | -7 | 209 | -4.5 | -2.3 | -1.1 | 1 | C |
| 18 | 371 | 5.8 | 28 | C | 5.5 | 14 | 201 | -4.7 | -2.0 | 0.8 | 2 | C |
| 19 | 361 | 6.4 | 29 | C | 5.4 | 4 | 191 | -5.0 | -1.0 | 0.1 | 2 | C |
| 20 | 370 | 6.2 | 26 | C | 5.4 | -6 | 212 | -3.8 | -2.1 | -1.3 | 3 | C |
| 21 | 367 | 6.3 | 28 | C | 5.6 | -13 | 223 | -3.5 | -2.7 | -2.2 | 2 | C |
| 22 | 359 | 6.9 | 32 | C | 5.4 | -3 | 184 | -4.7 | -0.2 | -0.3 | 2 | C |
| 23 | 363 | 7.0 | 36 | C | 5.7 | 1 | 160 | -5.2 | 1.6 | 0.9 | 1 | C |
| 24 | 365 | 7.3 | 35 | C | 5.9 | 12 | 157 | -5.1 | 1.5 | 2.0 | 1 | C |

JAN. 21, 1980

21

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 7.6 | 86 | C | 5.9 | -53 | 181 | -3.2 | 1.7 | -3.9 | 2 | C |
| 2 | 367 | 7.0 | 81 | C | 6.5 | -30 | 201 | -5.1 | -0.6 | -3.7 | 1 | C |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 358 | 6.0 | 0 | C | 6.4 | -20 | 66 | 2.5 | 5.7 | -1.5 | 0 | C |
| 8 | 374 | 6.2 | 96 | C | 5.9 | 23 | 84 | 0.5 | 4.4 | 2.3 | 3 | C |
| 9 | 38[illegible] | 5.9 | 85 | C | 6.9 | 3 | 67 | 2.7 | 6.2 | 0.6 | 1 | C |
| 10 | 37[illegible] | 5.8 | 80 | C | 7.2 | -10 | 84 | 0.8 | 6.7 | -1.1 | 2 | C |
| 11 | 374 | 5.5 | 71 | C | 6.7 | -13 | 75 | 1.6 | 6.1 | -1.4 | 1 | C |
| 12 | 358 | 5.8 | 81 | C | 6.0 | -15 | 91 | -0.1 | 5.4 | -1.3 | 2 | C |
| 13 | 387 | 5.1 | 73 | C | 6.0 | 13 | 55 | 2.9 | 4.0 | 1.3 | 3 | C |
| 14 | 367 | 5.2 | 104 | C | 5.3 | -15 | 91 | -0.1 | 3.7 | -0.8 | 3 | C |
| 15 | 369 | 4.8 | 83 | C | 5.2 | -13 | 87 | 0.3 | 4.8 | -0.6 | 2 | C |
| 16 | 355 | 5.3 | 89 | C | 4.9 | -6 | 104 | -1.0 | 4.0 | 0.2 | 3 | C |
| 17 | 366 | 5.0 | 78 | C | 4.4 | 52 | 95 | -0.1 | 1.1 | 2.3 | 3 | C |
| 18 | 377 | 4.3 | 53 | C | 5.6 | 6 | 72 | 1.5 | 4.6 | 1.8 | 2 | C |
| 19 | 371 | 4.7 | 49 | C | 5.9 | -2 | 77 | 1.3 | 5.4 | 1.5 | 1 | C |
| 20 | 353 | 5.0 | 41 | C | 5.7 | 37 | 113 | -1.8 | 2.7 | 4.6 | 1 | C |
| 21 | 357 | 4.5 | 41 | C | 6.1 | 50 | 116 | -1.7 | 1.5 | 5.6 | 1 | C |
| 22 | 350 | 4.7 | 38 | C | 6.2 | 38 | 120 | -2.4 | 2.2 | 5.0 | 2 | C |
| 23 | 358 | 6.0 | 49 | C | 5.8 | 12 | 103 | -1.2 | 4.1 | 3.2 | 2 | C |
| 24 | 359 | 9.3 | 38 | C | 4.7 | 13 | 113 | -1.6 | 2.9 | 2.4 | 2 | C |

JAN. 23, 1980

23

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 311 | 12.9 | 49 | C | 6.0 | 14 | 301 | 2.8 | -4.8 | -0.7 | 2 | C |
| 2 | 310 | 12.9 | 51 | C | 5.8 | 17 | 306 | 3.1 | -4.7 | -0.2 | 1 | C |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 298 | 10.1 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 304 | 12.0 | 48 | C | 5.8 | -44 | 281 | 0.8 | -3.7 | -4.2 | 1 | C |
| 9 | 305 | 12.2 | 52 | C | 5.4 | -57 | 257 | -0.6 | -2.5 | -4.4 | 2 | C |
| 10 | 292 | 12.9 | 58 | C | 3.9 | -61 | 325 | 1.3 | -0.8 | -2.9 | 2 | C |
| 11 | 297 | 14.5 | 71 | C | 4.0 | -28 | 8 | 2.5 | 0.4 | -1.3 | 3 | C |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 314 | 17.0 | 38 | C | 8.9 | 51 | 335 | 4.9 | -3.4 | 6.3 | 0 | C |
| 17 | 310 | 18.1 | 28 | C | 9.3 | 60 | 49 | 2.8 | 1.5 | 8.0 | 3 | C |
| 18 | 310 | 19.3 | 26 | C | 8.5 | 20 | 77 | 1.7 | 6.4 | 4.6 | 2 | C |
| 19 | 313 | 16.3 | 35 | C | 7.8 | 9 | 104 | -1.8 | 6.6 | 3.4 | 2 | C |
| 20 | 312 | 15.5 | 37 | C | 7.4 | 11 | 95 | -0.6 | 6.2 | 3.8 | 1 | C |
| 21 | 310 | 13.8 | 46 | C | 6.8 | 43 | 271 | 0.0 | -2.6 | 0.9 | 6 | C |
| 22 | 305 | 13.3 | 45 | C | 6.6 | 55 | 358 | 2.8 | -1.7 | 3.5 | 4 | C |
| 23 | 301 | 12.6 | 36 | C | 7.9 | 63 | 320 | 2.7 | -5.0 | 5.2 | 2 | C |
| 24 | 305 | 12.4 | 43 | C | 6.8 | 64 | 309 | 1.7 | -4.3 | 4.1 | 2 | C |

JAN. 25, 1980

25

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 302 | 10.8 | 14 | C | 3.4 | 45 | 60 | 1.2 | 0.8 | 3.0 | 1 | J |
| 2 | 304 | 11.0 | 13 | C | 4.0 | 56 | 112 | -0.8 | 0.5 | 3.8 | 1 | J |
| 3 | 303 | 10.9 | 13 | C | 4.0 | 75 | 80 | 0.2 | -0.4 | 3.9 | 1 | C |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 294 | 9.6 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 309 | 12.5 | 19 | C | 6.2 | 60 | 259 | -0.6 | -3.5 | 4.9 | 1 | J |
| 9 | 307 | 12.3 | 19 | C | 6.3 | 70 | 226 | -1.3 | -1.8 | 5.4 | 2 | C |
| 10 | 306 | 10.7 | 18 | J | 5.8 | 38 | 37 | 3.6 | 2.6 | 3.7 | 0 | J |
| 11 | 309 | 10.3 | 18 | J | 5.5 | 26 | 55 | 2.8 | 3.9 | 2.5 | 1 | J |
| 12 | 331 | 16.6 | 24 | J | 7.8 | 17 | 89 | 0.1 | 6.3 | 2.2 | 4 | J |
| 13 | 336 | 19.2 | 31 | J | 6.9 | 3 | 226 | -0.3 | -0.4 | 0.0 | 7 | J |
| 14 | 337 | 16.9 | 31 | J | 7.4 | 7 | 273 | 0.4 | -6.9 | 0.2 | 3 | J |
| 15 | 333 | 21.1 | 32 | C | 7.0 | -10 | 254 | -1.6 | -5.6 | -1.8 | 3 | C |
| 16 | 334 | 17.9 | 29 | J | 7.1 | 18 | 277 | 0.8 | -6.9 | 1.0 | 1 | J |
| 17 | 333 | 17.9 | 32 | J | 7.2 | 24 | 274 | 0.5 | -7.1 | 1.4 | 1 | J |
| 18 | 328 | 19.6 | 33 | J | 6.6 | -12 | 296 | 2.4 | -4.4 | -2.5 | 3 | J |
| 19 | 330 | 19.5 | 30 | J | 7.0 | 3 | 274 | 0.4 | -6.1 | -1.8 | 3 | J |
| 20 | 319 | 17.5 | 29 | J | 7.7 | 31 | 295 | 2.4 | -6.1 | 1.3 | 4 | J |
| 21 | 320 | 17.0 | 25 | J | 8.2 | 35 | 279 | 0.9 | -7.2 | 1.5 | 4 | J |
| 22 | 315 | 17.5 | 21 | J | 7.8 | 25 | 272 | 0.2 | -7.4 | -0.0 | 2 | J |
| 23 | 314 | 14.0 | 21 | J | 8.3 | 25 | 286 | 2.0 | -7.7 | -0.0 | 2 | J |
| 24 | 314 | 15.8 | 19 | J | 7.9 | 16 | 283 | 1.6 | -7.1 | -1.2 | 3 | J |

# 01/26/80 – 02/02/80

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HR  VEL  DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF       VEL  DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
              1000  SC   MAGN LAT LON                     SC                  1000  SC   MAGN LAT LON                     SC

                       JAN. 26, 1980                     26                            JAN. 27, 1980                     27

 1  314 16.8  20 J    7.3  15 296   2.9  -6.2  -1.0  2 J      340  7.2  34 J   10.8 -35 122  -4.6   9.3  -2.3  2 J
 2  312 17.9  20 J    7.1   7 292   2.6  -6.2  -1.8  1 J      349  7.8  27 J   10.6 -61 162  -4.8   5.2  -7.7  1 J
 3  311 17.5  19 J    7.4  11 300   3.5  -6.1  -1.0  2 J      340 11.0  19 J   10.1 -58 132  -3.5   6.8  -6.3  2 J
 4
 5  340 12.3  36 J   11.3  15 107  -3.2   9.3   5.6  0 J
 6  337 12.3  30 J    9.0  25 113  -2.0   4.0   3.2  6 J
 7  365 12.7 146 J    6.4  42 132  -2.4   2.1   3.6  4 J      344  7.1  24 J    9.3  -3  70   3.0   8.3   0.9  2 J
 8  363 11.1 137 J    8.7  74 172  -2.3  -0.6   8.1  3 J      349  6.2  21 J    9.4 -30  73   2.2   7.7  -3.5  3 J
 9  355  8.3  96 J   11.2  53 115  -2.8   5.3   9.0  3 J      341  7.5  16 J    9.3 -53  80   0.9   5.9  -6.8  2 J
10  354  8.9 109 J    9.2  23 111  -2.9   7.4   3.8  3 J      341  8.5  16 C    9.3 -51  71   1.8   5.8  -6.9  1 C
11  347  8.0  86 J    9.6   8 128  -5.3   6.7   1.5  4 J      341  9.9  15 C    9.0 -53  61   2.6   4.9  -6.7  2 C
12  348  6.4  73 J   10.4   6 105  -2.6   9.4   1.5  3 J      357 16.1  34 J    6.6  40 109  -1.6   4.5   4.4  2 J
13  340  8.5  61 C   11.1  -5  97  -1.3  10.8  -0.3  2 C      355 22.1  17 C    5.3  19  98  -0.6   4.5   1.9  2 J
14  329  7.8  42 J   10.4  15 135  -5.8   5.6   2.7  5 J      356 22.9  20 C    8.1 -46  92  -0.1   6.0  -5.1  2 C
15  330  7.9  43 J   10.3  -1 121  -5.3   8.7   1.0  2 J      359 24.1  15 J    8.4 -67  91  -0.1   4.3  -7.2  1 J
16  326  8.0  39 J   10.4   3 124  -5.8   8.3   2.1  1 J      351 22.8  11 C    9.1 -68  89   0.1   4.9  -7.6  0 J
17  335  9.4  40 J   11.3  17 126  -6.3   7.7   5.2  1 J      365 25.2  13 J    8.2 -73 114  -1.0   3.9  -7.0  1 J
18  336  7.7  37 J   11.7  -5 117  -5.3  10.2   1.9  2 J      365 18.1  13 J    8.9 -77 156  -1.8   3.2  -7.8  2 J
19  332  9.4  25 J   11.5  -7 105  -3.0  10.9   2.3  1 J      349 20.9  13 J    8.9 -47 206  -5.4  -0.3  -6.9  1 J
20  338  8.9  26 J   11.8  -8 109  -3.8  10.8   2.6  2 J      348 21.9  13 J    8.8 -50 206  -5.0   0.2  -7.1  1 J
21  341  8.4  28 J   11.8 -14 109  -3.5  10.2   1.7  4 J      351 21.6  14 J    9.9 -49 215  -5.3  -0.3  -8.3  1 J
22  342  6.5  31 J   12.1 -34 127  -6.0  10.1  -2.6  1 J      353 20.1  14 J   10.5 -51 221  -5.0  -0.3  -9.2  0 J
23  335  6.0  33 J   11.7 -33 128  -5.9   9.6  -2.2  2 J      343 24.6  10 C   10.5 -46 227  -4.9  -1.4  -9.1  1 C
24  344  6.4  41 J   11.2 -31 123  -5.2   9.7  -1.5  2 J      345 25.9  13 C    9.8 -43 227  -4.8  -1.6  -8.2  1 C

                       JAN. 28, 1980                     28                            JAN. 29, 1980                     29

 1  346 24.2  25 C    8.9 -40 223  -4.9  -1.6  -7.1  1 C      487 10.0 102 J   14.8 -37 303   6.2  -4.7 -12.0  4 J
 2  336 25.6  18 C    9.2 -50 237  -3.0  -1.5  -8.0  3 C      492  8.9  93 J   12.7 -25 296   5.0  -7.0  -9.1  2 J
 3  330 26.8  16 C    9.4 -47 245  -2.6  -2.7  -8.3  2 C      496  6.8 104 C   12.6 -27 304   6.3  -6.4  -8.9  0 J
 4  332 27.7  17 C    8.8 -42 243  -3.0  -3.4  -7.5  1 C      515  6.9  75 C   10.1  25 317   5.9  -6.5   1.7  5 C
 5  333 28.9  15 C    9.4 -40 244  -3.1  -4.5  -7.4  2 C      498  9.2   0 C   10.0 -27 325   7.3  -3.6  -5.7  0 C
 6  336 32.7  14 C    9.4 -21 257  -1.9  -7.4  -5.1  2 C      494  2.7  93 C    9.3  23 335   7.7  -4.3   2.7  1 C
 7  332 20.8  33 C    7.6  21 284   1.6  -6.9   1.4  2 C      515  4.7 107 C    8.1  58 315   2.8  -3.9   5.8  3 C
 8  345 19.6  40 J    7.7  19 261  -1.1  -7.3   1.6  1 J      473  3.4 107 C    9.2  53 331   4.7  -3.5   6.7  2 C
 9  340 20.7  44 J    6.3 -11 272   0.2  -4.5  -1.3  4 J      488  3.7  51 J    8.2  51 319   3.7  -3.8   5.7  2 J
10  336 22.3  52 J    5.6 -10 292   1.7  -4.2  -1.1  3 J      471  4.4  63 J    7.9  41 318   4.4  -4.3   4.8  1 J
11  335 21.4  43 J    6.4  12 297   2.8  -5.5   1.0  2 J      484  4.5  51 J    8.2  49 311   3.4  -4.3   5.7  2 J
12  353 21.5  53 J    8.3 -57 234  -2.6  -3.1  -6.9  2 J      488  3.9  71 J    8.1  49 314   3.5  -3.9   5.5  3 J
13  356 20.6  56 J    7.8 -70 222  -1.9  -1.2  -7.3  2 J      472  4.3   0 C    8.1  58 308   2.5  -3.7   6.2  3 J
14  347 19.2   0 C    8.1 -54 232  -2.8  -3.0  -6.7  1 C      505  4.7 144 J    9.8 -32 297   3.6  -6.5  -5.8  3 J
15  371 19.3  60 J    7.1 -46 214  -3.8  -1.8  -5.1  3 J      508  4.6 145 J    9.7   3 292   3.2  -7.9  -0.8  4 J
16  375 20.3  61 J    7.3 -60 213  -3.1  -0.7  -6.6  1 J      489  5.2 102 J   10.4 -19 309   5.2  -5.8  -4.1  5 J
17  394 24.3  70 C   12.7  -1 278   1.2  -8.4  -2.3  8 C      474  4.9  75 J   10.3   5 310   6.3  -7.5  -1.0  3 J
18  451 32.7 115 J   23.8  15 264  -2.2 -21.8  -0.8  9 J      501  3.5 101 J   10.4  -4 298   4.5  -8.0  -3.2  4 J
19  442 30.3 200 J   21.3  11 282   3.8 -17.8  -2.7 11 J      510  3.6 108 J    9.9 -14 296   3.9  -6.8  -4.9  4 J
20  475 23.3 284 J   19.1  88 188  -0.6  -6.7  15.9  8 J      503  3.8 126 J    9.5 -25 303   4.5  -4.9  -6.3  2 J
21  476 22.7 275 J   16.1  48  94  -0.5   2.9   9.4 13 J      498  3.6 120 J    9.3 -20 315   6.0  -4.2  -5.4  2 J
22  483 22.0 233 J   14.0   7 105  -3.3  10.2   6.8  6 J      511  3.6 138 J    9.3  16 303   4.5  -7.2  -1.0  4 J
23  468 35.7 137 J   10.7   3  92  -0.3   6.8   4.0  8 J      509  3.4 119 J    8.8  -8 327   5.8  -2.9  -2.6  5 J
24  473 21.5 127 J   13.6 -40 313   7.0  -2.7 -11.1  3 J      509  4.0 198 J    9.1   0 310   5.7  -6.0  -3.2  2 J

                       JAN. 30, 1980                     30                            JAN. 31, 1980                     31

 1  520  4.2 190 J    8.9  16 301   4.4  -7.6  -1.1  1 J      480  2.0 100 C    5.8   6 313   3.9  -4.0  -1.4  0 C
 2  524  4.6 151 J    8.7  34 299   3.5  -7.8   1.7  0 J      482  1.4  68 J    5.6   0 322   4.4  -3.1  -1.5  1 J
 3  486 12.5  82 J    7.3  60 237  -2.0  -5.2   4.6  1 J      479  1.6  66 J    5.5   1 325   4.5  -2.9  -1.2  1 J
 4  488 11.6  84 J    7.9  73 257  -0.5  -4.7   6.2  1 J      459  2.0  99 C    5.4   2 334   4.8  -2.2  -0.6  1 J
 5  490  8.0 100 J    8.6  72 246  -1.1  -4.6   7.0  2 J      484  1.5  67 J    5.3   5 330   4.6  -2.7  -0.3  1 J
 6  479  7.3 158 J    7.4  45 288   1.1  -4.2   2.7  5 J      455  2.0  88 C    5.4   4 339   5.0  -2.0  -0.1  0 C
 7  507  3.9  97 J    8.8  45 257  -1.2  -6.1   4.3  4 J      454  2.0  91 C    5.4   4 340   5.1  -1.9   0.0  1 C
 8  457  3.4  69 J    8.8  -8 294   3.2  -6.9  -2.0  4 J      467  1.7  74 C    5.6  -5 350   5.4  -0.9  -0.6  1 C
 9  479  4.0  97 J    7.7 -14 302   3.1  -4.9  -2.0  5 J      470  1.7  90 C    5.5  10 339   4.9  -2.0   0.8  1 C
10  460  5.2 101 J    6.8 -46 356   4.2   0.0  -4.3  3 J      445  2.0  81 C    5.5  -1 341   5.1  -1.8  -0.2  1 C
11  428  4.8  88 J    7.5  -9 333   6.1  -3.0  -1.3  3 J      459  1.6  61 C    5.6  25 302   2.6  -4.3   2.0  1 C
12  446  4.5 104 J    7.6  25 318   4.9  -4.6   2.8  2 J      502  1.7  73 C    5.9  34 262  -0.7  -4.9   2.9  1 C
13  445  3.5  83 J    7.4   6 319   5.0  -4.4   0.3  3 J      504  1.6   0 C
14  435  3.5 121 C    7.7  -6 329   6.3  -3.7  -1.2  2 J
15  464  2.8 126 C    8.3 -17 331   6.9  -3.4  -3.0  2 J
16  482  2.1  77 J    8.2   7 326   6.7  -4.6   0.1  1 J      443  1.8  56 C    6.8  20 303   3.4  -5.7   1.1  1 C
17  484  1.8  83 J    6.7   6 326   5.5  -3.8  -0.3  1 J      406  1.8  35 C    6.8  -1 328   5.4  -3.3  -1.0  2 C
18  508  1.5  73 J    6.6  -3 340   6.1  -2.0  -1.0  1 J      423  1.8  75 C    6.9   2 326   5.5  -3.5  -0.9  2 C
19  486  1.9  93 C    6.7   1 338   6.2  -2.4  -0.8  0 J      366  1.8   0 C
20  514  2.0   0 C    6.4   0 344   6.1  -1.6  -0.7  1 J      440  1.8  68 C    7.2   0 296   2.8  -5.3  -2.3  3 C
21  464  2.0  96 C    6.5   2 341   6.1  -2.0  -0.7  1 J      452  1.8  53 C    7.1  -3 287   1.9  -5.6  -3.0  2 C
22  479  2.2  76 J    6.0   9 324   4.8  -3.5  -0.7  1 J      458  1.8  58 C    6.9  -6 285   1.8  -5.5  -3.6  1 C
23  485  1.8  77 J    5.9  19 303   3.0  -4.9  -0.5  1 J      442  1.7  39 C    6.9   7 294   2.6  -5.5  -2.0  2 C
24  487  1.8  76 J    5.7  18 305   3.1  -4.7  -0.5  1 J      405  1.8  20 C    7.3  -8 311   4.6  -4.2  -3.4  1 C

                       FEB.  1, 1980                     32                            FEB.  2, 1980                     33

 1  407  1.6   0 C    7.3 -10 301   3.7  -4.9  -4.0  0 C      475  4.2  88 C    4.8 -35 252  -0.9  -1.6  -3.2  3 C
 2  418  2.2  38 C    7.1   4 305   4.0  -5.3  -2.0  1 C      477  3.9  83 C    4.9  47 278   0.4  -4.2   1.6  2 C
 3  434  2.3  23 C    7.2  20 287   1.9  -6.8  -0.4  1 C      485  4.2   0 C
 4  442  2.9  37 C    7.6  32 266  -0.4  -7.4   1.5  1 C
 5  443  2.6  31 C    7.5  39 275   0.5  -6.1   2.5  3 C
 6  444  2.6  65 C    7.5  19 287   2.0  -6.8   0.7  2 C
 7  420  2.8  69 C    7.4 -13 305   3.8  -5.1  -2.5  2 C
 8  459  3.6  86 C    6.8  24 282   1.1  -5.6   1.7  3 C
 9  465  3.8  88 C    6.4  35 264  -0.5  -5.1   2.8  2 C
10  450  4.2  74 C    7.1   4 279   1.1  -6.7  -0.1  1 C
11  453  3.7   0 C
12
13
14
15  487  3.2   0 C                                            466  4.5  75 C    3.7  19 340   3.2  -1.4   1.0  1 C
16  473  3.3 145 C    7.0  52 282   0.7  -4.3   3.7  4 C      507  3.5  80 C    4.3  15 356   4.1  -0.5   1.0  1 C
17  476  3.1 191 C    5.1  31 325   2.3  -2.0   1.2  4 C      497  3.2  74 C    4.6  19 354   4.3  -0.8   1.3  0 C
18  469  2.9 165 C    5.5  18 297   1.6  -3.2   0.1  4 C      506  3.0  64 C    4.1  15 320   2.9  -2.7   0.2  1 C
19  476  3.3  91 C    5.9 -36 266  -0.2  -2.0  -3.1  4 C      452  3.6  53 C    4.5  30 323   3.1  -3.0   1.2  0 C
20  482  3.2  93 C    6.4 -19 268  -0.2  -4.5  -4.3  1 C      485  3.3  52 C    4.3  27 305   2.1  -3.6   0.5  1 C
21  463  3.4 100 C    5.8 -10 271   0.1  -4.5  -3.3  2 C      512  2.8  56 C    4.2  12 317   2.9  -2.8  -0.4  1 C
22  480  2.9  82 C    6.0  -9 258  -1.2  -4.6  -3.4  1 C      427  4.2  42 C    4.1  16 329   3.3  -2.3   0.0  0 C
23  480  3.6 102 C    5.6  34 311   3.0  -4.5   1.1  0 C      443  3.7  46 C    4.0  15 322   3.1  -2.6  -0.2  0 C
24  476  3.4  86 C    5.8  17 297   2.5  -5.0  -0.9  1 C      442  3.6  47 C    4.1   6 327   3.3  -2.1  -0.7  1 C
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**ORIGINAL PAGE IS OF POOR QUALITY**

02/03/80 – 02/10/80

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HR     VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000  SC  MAGN LAT LON                      SC

                                                            34
                      FEB.  3, 1980

 1     409  3.6  47  C    4.1  21 295   1.6  -3.7  -0.3  1  C
 2     407  3.8  46  C    3.7  15 331   1.8  -3.1  -0.5  1  C
 3     399  4.1  38  C    3.8  17 308   2.2  -3.0  -0.2  0  C
 4     389  4.3  43  C    3.1  18 309   1.9  -2.5   0.1  1  C
 5     384  4.8  46  C    2.9   8 255  -0.7  -2.4  -0.4  1  C
 6     381  4.6  41  C    2.9  24 267  -0.1  -2.6   0.4  1  C
 7     379  4.7  35  C    3.1  16 289   1.0  -2.9   0.3  1  C
 8     377  5.0  27  C    3.6   3 293   1.4  -3.3  -0.3  1  C
 9     383  5.2  20  C    3.5  -4 126  -1.1   1.5   0.1  3  C
10     385  4.4  16  C    3.8   9 123  -2.0   3.0   0.9  0  C
11     379  3.5  25  C    4.1   8 129  -2.6   3.1   0.8  0  C
12     380  3.3  23  C    4.2   1 132  -2.8   3.1   0.4  0  C
13     374  2.4   0  C    4.4  -5 134  -3.0   3.1  -0.0  0  C
14     369  3.1  29  C    4.5   3 144  -3.6   2.6   0.6  0  C
15     378  3.2  28  C    4.4  -1 142  -3.4   2.7   0.4  0  C
16     373  3.4  36  C    4.1  -6 143  -3.2   2.4   0.1  1  C
17     367  3.7  37  C    3.5  -6 156  -3.1   1.4   0.0  0  C
18     358  4.6  39  C    3.0  -7 130  -1.9   2.2   0.4  0  C
19     362  3.3  34  C    4.1  -2 125  -2.3   3.1   1.1  1  C
20     361  3.4  33  C    5.0  -6 132  -3.3   3.5   1.1  1  C
21     356  3.6  33  C    5.0 -15 126  -2.8   4.0   0.6  1  C
22     349  3.9  33  C    5.1  -7 140  -3.9   3.1   1.0  0  C
23     351  3.6  28  C    5.1 -23 139  -3.5   3.6  -0.3  1  C
24     352  3.7  29  C    4.8 -25 131  -2.8   3.7  -0.2  1  C

                                                            36
                      FEB.  5, 1980

 1     305  6.1  25  C    5.3  26 182  -4.5  -1.2   1.9  1  C
 2     322  6.0  37  C    5.2  19 211  -2.8  -2.0   0.3  3  C
 3     319  5.8  35  C    5.4  20 184  -3.8  -0.8   1.1  3  C
 4     334  6.2  35  C    5.6   6 116  -2.4   4.4   2.3  1  C
 5     336  6.6  27  C    5.3  42 137  -2.8   1.3   4.0  2  C
 6     335  7.1  23  C    5.4  39 151  -3.1   0.9   3.2  3  C
 7     337  7.1  21  C    5.6  -5 123  -2.9   4.5   0.5  1  C
 8     342  6.9  24  C    5.5 -16 107  -1.4   4.6  -0.6  2  C
 9     337  7.1  18  C    5.5 -11 111  -1.7   4.5  -0.3  2  C
10     341  6.8  20  C    5.5 -40  96  -0.4   4.5  -3.0  1  C
11     328  7.2  19  C    5.3 -15 121  -2.6   4.5  -0.9  1  C
12     327  6.9  13  C    5.4 -22 124  -2.8   4.3  -1.6  0  C
13     332  5.1   0  C
14     332  6.4  15  C    5.6 -35 108  -1.4   4.7  -2.5  1  C
15     333  6.4  15  C    5.6 -46 109  -1.2   4.3  -3.2  1  C
16     339  6.5  16  C    5.7 -31  91  -0.1   5.1  -1.6  2  C
17     329  7.0  17  C    5.5 -27 106  -1.3   5.1  -1.1  1  C
18     327  7.1  14  C    5.7 -37 113  -1.7   4.9  -1.8  1  C
19     326  7.0  17  C    5.6 -16 110  -1.8   5.1   0.5  1  C
20     319  7.1  20  C    5.4 -22 117  -2.2   4.8   0.0  1  C
21     320  5.5   0  C    5.3 -13 127  -3.1   4.1   0.8  0  C
22     308  7.9  25  C    5.2  20 165  -4.6   0.3   2.1  1  C
23     320  7.9  23  C    5.4  52 163  -2.8  -1.1   3.6  2  C
24     323  7.5  22  C    5.3  54 201  -2.4  -2.6   2.7  2  C

                                                            38
                      FEB.  7, 1980

 1     489  5.9  57  C   12.8  38 206  -8.9  -7.5   4.7  2  C
 2     472  5.8  71  C   12.1  38 190  -9.0  -4.8   5.7  3  C
 3     483  4.9  59  C   11.5   9 188 -11.2  -2.2   1.0  1  C
 4     478  4.3  73  C   10.7  -1 190 -10.4  -1.6  -0.9  1  C
 5     467  5.8  58  C    9.1  -7 199  -8.3  -2.4  -2.0  1  C
 6     466  5.4  60  C    8.5  -1 187  -7.9  -0.9  -0.4  3  C
 7     471  6.2  60  C    7.8  -7 222  -5.4  -4.6  -1.9  2  C
 8     495  8.6  46  C    8.2  13 240  -3.3  -6.0   0.6  4  C
 9     502  2.5 111  C    9.2  41 145  -5.3   2.9   6.1  3  C
10     364  3.2   0  C   11.2  21 119  -5.1   8.6   5.0  0  C
11
12
13
14                        8.3  46  95  -0.5   4.6   6.6  2  J
15                        7.4  51  76   1.1   3.3   6.4  1  J
16                        6.9  55 112  -1.5   2.2   6.3  1  J
17     423  2.5  83  L    6.9  -3 149  -5.5   3.2   0.6  3  J
18     419  2.8  66  L    7.1 -20 148  -5.5   4.0  -1.1  2  J
19     450  3.2  56  L    6.4 -52 137  -2.4   3.7  -3.0  4  J
20     476  4.3  71  C    3.1  -4 122  -0.6   1.0   0.4  3  J
21     479  3.3  49  C    6.8 -34 107  -1.3   5.1  -0.7  4  C
22     483  3.5  67  C    3.9 -38 127  -0.8   1.4  -0.4  4  J
23     479  3.5  68  C    5.2  56 158  -1.9  -0.9   3.1  3  C
24     498  5.6  83  C    4.0   6  24   2.7   0.9   0.9  3  J

                                                            40
                      FEB.  9, 1980

 1     460  2.5  39  J    4.9  -2 152  -3.9   1.9   0.9  2  J
 2     465  2.5  49  J    4.9   1 143  -3.6   2.4   1.3  2  J
 3     455  2.4  39  J    4.6   4 169  -4.3   0.6   0.6  1  J
 4     455  2.4  44  J    4.9  11 158  -4.1   1.2   1.4  2  J
 5     509  4.8 137  C    7.9  23 118  -2.6   3.8   3.9  4  C
 6     507  4.9 144  C
 7     486  5.0 132  J    5.9 -25 148  -3.7   2.7  -1.4  3  J
 8     503  4.9  87  J    6.4 -47 124  -1.6   2.9  -2.6  5  J
 9     472  4.7  70  J    6.3 -25 159  -4.6   2.1  -2.0  3  J
10     442  4.8   0  C    6.8 -15 140  -4.9   4.3  -1.2  2  J
11                        7.0  -5 131  -4.6   5.3   0.0  1  J
12     456  2.5  55  J    6.9 -13 140  -5.0   4.3  -1.0  1  J
13                        6.6 -14 141  -4.8   4.1  -1.0  2  J
14     456  2.6  83  J    6.7 -25 139  -4.5   4.3  -2.1  1  J
15     462  2.5  55  J    6.4 -41 133  -3.1   4.0  -3.2  2  J
16     440  2.5  64  J    6.3 -35 138  -3.8   4.2  -2.6  1  J
17     420  2.8  60  C    6.6 -37 140  -3.9   4.3  -2.7  1  C
18     423  2.5  40  J    6.3 -28 153  -4.9   3.3  -1.9  1  J
19     425  2.5  37  J    6.1 -24 149  -4.7   3.6  -1.1  1  J
20     421  4.2  27  J    5.7 -19 134  -3.7   4.2   0.0  1  J
21     410  4.3  26  J    5.7 -22 127  -3.1   4.6   0.1  1  J
22     402  4.5  33  J    5.6 -16 133  -3.7   4.2   0.6  1  J
23     419  4.7  30  J    6.0 -25 131  -3.5   4.7  -0.1  1  J
24     392  4.9  34  J    6.0   7 169  -5.0   0.5   1.0  3  J
```

```
VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
        1000  SC  MAGN LAT LON                      SC

                                                     35
               FEB.  4, 1980

351  3.6  30  C    4.5 -17 109  -1.3   4.1   0.8  1  C
349  3.6  30  C    4.4 -16 131  -2.7   3.3   0.3  1  C
343  3.8  29  C    4.1 -31 163  -3.2   1.7  -1.4  1  C
341  5.3  21  C    3.7 -22 156  -3.1   1.8  -0.8  0  C
329  8.5  31  C    1.6 -22  24   1.1   0.6  -0.3  1  C
324 10.1  23  C    2.2 -64 108  -0.3   1.3  -1.6  1  C
334 12.9  23  C    4.9 -34  89   0.0   4.3  -1.8  1  C
344 14.9  20  C    6.1 -33 115  -2.0   4.7  -2.3  2  C
342 13.1  19  C    6.4 -15 118  -2.8   5.6  -1.0  1  C
341 13.4  21  C    4.5   1 127  -2.6   3.5   0.4  1  C
336  7.4  32  C    6.1 -12 128  -3.6   4.8  -0.8  0  C
330  4.9  28  C    6.2 -14 128  -3.6   4.7  -1.0  1  C
326  4.9  33  C    6.4  -1 138  -4.7   4.1   0.3  1  C
320  4.4   0  C    6.2  24 158  -5.3   1.7   2.8  0  C
320  5.3  30  C    6.2  19 142  -4.3   3.0   2.4  2  C
325  5.0  34  C    5.9  22 136  -3.9   3.1   3.0  1  C
316  5.3  35  C    5.5  22 171  -4.7   0.1   2.0  2  C
309  6.0  33  C    5.5  23 178  -4.9  -0.6   2.0  1  C
308  5.9  32  C    5.6  -1 160  -5.0   1.7   0.6  1  C
306  5.6  25  C    6.4  13 162  -5.9   1.2   2.1  1  C
322  6.2  32  C    6.2  36 189  -4.0  -1.9   2.3  4  C
337  4.7   0  C    5.9  47 234  -2.4  -4.9   2.3  0  C
328  6.3  31  C    5.5  31 101  -0.9   2.5   4.4  2  C
309  6.2  28  C    5.3  30 171  -4.1  -0.6   2.4  2  C

                                                     37
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322  7.7  30  C    5.1  18 123  -2.2   2.4   2.8  3  C
307  7.6  27  C    5.7  11 139  -3.8   2.5   2.4  2  C
317  6.8  21  C



454 11.8  67  C   18.0  -8 111  -5.5  14.2   1.0  9  C
433  9.5  66  C   20.0 -35 128 -10.0  14.7  -9.0  2  C
423 11.2  81  C   16.6 -49 134  -7.2   9.1 -10.8  4  C
391  9.4  61  C   16.8  -3 133 -10.9  11.9   0.6  4  C
395 10.1  65  C   18.0  -5 120  -8.8  15.5   0.0  2  C

475  5.7 167  C   16.1 -49 139  -4.6   4.8  -6.3 13  C
482  4.5 126  C   17.3 -53 302   5.5  -6.5 -15.0  1  C
457  8.1  53  C   15.8 -85 193  -1.3   2.7 -15.4  1  C
450  7.5 105  C   13.9 -71 122  -2.2   6.4 -11.3  4  C
454  7.9 121  C   11.6 -45 123  -4.1   8.2  -5.4  4  C
465  9.4 116  C   11.4  -5 104  -2.2   8.8   2.3  6  C
520  8.6  82  C   13.6 -58 225  -4.6  -0.2 -11.3  6  C
545 11.0 108  C   14.4 -25 246  -5.1  -8.0 -10.3  3  C
535  9.6 119  C   15.4  57 176  -8.0  -5.2  11.1  4  C
515  8.4 113  C
496  7.3  79  C   15.7  52 196  -9.0  -8.2   9.2  2  C
487  6.3  52  C   13.7  19 188 -12.6  -3.7   3.0  1  C

                                                     39
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519  5.0  91  C    3.9  64 350   1.5  -1.7   2.5  2  J
465  4.5  99  C    4.1 -24  38   2.2   2.1  -0.3  3  J
469  3.6  79  C    4.2  21  51   2.5   2.1   2.7  1  J
482  3.7  44  C    5.7 -78 335   0.9   1.5  -4.7  2  C
476  5.3  35  C    5.5 -74 342   1.4   1.3  -5.1  1  C
474  6.1  35  C    5.2 -70 344   1.7   0.9  -4.8  0  C
456  6.4  26  C    4.6 -64   7   2.0   1.2  -4.0  1  J
456  6.1  33  C    4.6 -56  30   2.2   2.0  -3.5  1  J
462  6.4  30  C    3.8 -75  47   0.7   1.2  -3.5  1  J
451  7.0   0  C    3.8 -77  10   0.8   0.6  -3.7  0  J




429  2.8  47  J    5.1 -54 151  -2.6   2.3  -3.7  1  J
426  3.3  42  J    5.0 -56 150  -2.4   2.4  -3.7  0  J
416  2.2  39  C    5.6 -35 148  -3.8   3.2  -2.3  1  C
418  2.7  41  C    5.3 -27 158  -4.3   2.4  -1.6  1  C
424  2.7  42  C    5.4 -23 158  -4.6   2.5  -1.2  1  C
424  2.7  43  C    5.5 -19 157  -4.7   2.6  -0.7  1  C
432  2.7  39  J    5.7 -27 142  -4.0   4.0  -0.8  1  J
442  2.1  32  J    5.3  -3 156  -4.5   1.9   0.7  2  J
505  3.0  78  J    5.1 -45 144  -2.5   3.1  -1.8  3  J
466  2.6  47  J    5.0 -19 155  -4.2   2.5  -0.4  1  J

                                                     41
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409  4.9  29  J    6.1  20 134  -3.6   2.3   3.5  3  J
436  2.7  38  J    6.2  54 220  -2.7  -4.4   3.3  1  J
447  2.2  26  J    5.7  61 238  -1.4  -4.2   3.4  1  J
461  2.9  41  J    5.2  32 280   0.7  -4.6   0.7  2  J
446  3.1  42  J    5.3 -34 311   2.3  -1.7  -3.1  3  J
402  4.3  66  J    4.3  22 158  -3.0   0.8   1.6  2  J
405  4.4  36  J    4.7  22 161  -3.9   0.9   1.9  2  J
390  4.4  38  C    4.6   3 156  -4.2   1.8   0.6  1  J
389  4.3  37  C    4.5  22 151  -3.6   1.7   1.9  1  C
391  4.0   0  C

401  2.8  20  J    5.3  25 145  -3.9   2.4   2.6  1  J
                   5.5  24 143  -3.9   2.6   2.6  1  J
388  2.7  33  J    5.3   4 157  -4.8   1.9   0.7  1  J
391  2.6  32  J    5.5   1 149  -4.5   2.6   0.7  1  J
382  3.2  26  C    5.4  11 156  -4.6   1.8   1.5  1  C
378  3.1  30  C    5.3  15 164  -4.7   0.9   1.7  1  C
400  3.2  51  C    5.1   4 142  -3.4   2.4   1.2  2  C
404  3.0  48  C    5.1  32 154  -3.5   0.6   2.8  2  C
393  2.9  46  C    5.3  -2 146  -4.3   2.7   1.1  1  J
412  2.3  37  J    4.9  42 130  -2.1   0.8   3.8  2  J
406  2.2  40  J    5.0  15 143  -3.6   1.8   2.4  1  J
407  2.3  41  J    4.9  15 140  -3.3   1.8   2.4  2  J
441  3.0  83  J    4.4  53 126  -1.2   0.0   3.1  3  J
```

# 02/11/80 – 02/18/80

## FEB. 11, 1980

42

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 2.8 | 89 | J | 4.4 | -1 | 111 | -1.4 | 3.2 | 1.8 | 2 | J |
| 2 | 422 | 2.6 | 53 | J | 4.7 | -14 | 135 | -3.1 | 3.2 | 0.5 | 1 | J |
| 3 | 419 | 2.6 | 60 | J | 4.8 | -15 | 128 | -2.9 | 3.8 | 0.5 | 0 | J |
| 4 | 436 | 4.2 | 130 | C | 5.6 | 21 | 114 | -1.6 | 2.7 | 2.8 | 3 | C |
| 5 | 430 | 4.5 | 137 | C | 5.9 | 37 | 161 | -2.9 | 0.2 | 2.5 | 4 | C |
| 6 | 446 | 4.6 | 161 | C | 5.1 | 22 | 163 | -4.0 | 0.7 | 2.0 | 1 | C |
| 7 | 473 | 4.4 | 152 | J | 4.8 | 13 | 82 | 0.6 | 3.9 | 2.0 | 2 | J |
| 8 | 434 | 3.7 | 114 | J | 4.9 | -4 | 122 | -2.3 | 3.7 | 0.4 | 2 | J |
| 9 | 482 | 3.5 | 144 | J | 4.6 | -3 | 53 | 2.0 | 2.7 | 0.3 | 3 | J |
| 10 | 455 | 3.6 | 151 | J | 4.2 | 13 | 88 | 0.1 | 3.4 | 1.3 | 2 | J |
| 11 | 430 | 3.1 | 95 | J | 4.1 | -16 | 138 | -2.7 | 2.6 | -0.7 | 2 | J |
| 12 | 421 | 2.8 | 66 | J | 4.1 | 15 | 150 | -3.3 | 1.8 | 1.3 | 1 | J |
| 13 | | | | | | | | | | | | |
| 14 | 394 | 3.8 | 0 | C | 3.4 | 1 | 180 | -3.3 | -0.0 | 0.1 | 1 | J |
| 15 | 402 | 3.6 | 95 | C | 3.4 | 13 | 165 | -2.7 | 0.6 | 0.8 | 2 | J |
| 16 | 402 | 3.8 | 96 | C | 3.4 | 22 | 148 | -2.5 | 1.2 | 1.6 | 1 | J |
| 17 | 396 | 3.1 | 129 | J | 3.5 | 13 | 154 | -2.8 | 1.1 | 1.1 | 1 | J |
| 18 | 401 | 3.0 | 145 | J | 3.5 | -13 | 156 | -2.9 | 1.5 | -0.2 | 1 | J |
| 19 | 419 | 2.6 | 58 | J | 3.5 | 6 | 118 | -1.2 | 2.0 | 1.2 | 2 | J |
| 20 | 438 | 1.9 | 31 | J | 3.8 | 5 | 11 | 3.5 | 0.5 | 0.6 | 1 | J |
| 21 | 431 | 1.8 | 32 | J | 3.9 | 3 | 7 | 3.7 | 0.3 | 0.4 | 1 | J |
| 22 | 422 | 2.3 | 44 | J | 4.0 | 3 | 347 | 3.7 | -0.8 | -0.3 | 1 | J |
| 23 | 416 | 2.8 | 43 | J | 4.3 | 24 | 5 | 3.8 | -0.6 | 1.6 | 1 | J |
| 24 | 411 | 2.7 | 32 | J | 4.4 | 18 | 15 | 3.8 | 0.2 | 1.6 | 1 | J |

## FEB. 12, 1980

43

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 409 | 3.4 | 31 | J | 3.9 | 5 | 23 | 3.5 | 1.1 | 1.0 | 1 | J |
| 2 | 395 | 3.3 | 28 | C | 4.2 | 23 | 28 | 3.4 | 0.8 | 2.3 | 0 | C |
| 3 | 389 | 3.2 | 28 | C | 4.1 | 29 | 21 | 3.3 | 0.3 | 2.3 | 1 | C |
| 4 | 405 | 2.5 | 53 | J | 3.3 | -26 | 119 | -1.4 | 2.8 | -0.3 | 1 | J |
| 5 | 388 | 2.7 | 39 | J | 3.5 | -7 | 116 | -1.5 | 3.0 | 0.7 | 1 | J |
| 6 | 382 | 2.8 | 32 | J | 3.8 | -12 | 126 | -2.1 | 3.0 | 0.1 | 1 | J |
| 7 | 376 | 3.9 | 44 | C | 4.4 | -10 | 120 | -2.1 | 3.8 | 0.2 | 1 | C |
| 8 | 373 | 3.8 | 24 | J | 4.5 | -13 | 131 | -2.9 | 3.4 | -0.3 | 0 | J |
| 9 | 380 | 3.8 | 24 | J | 4.4 | -18 | 125 | -2.3 | 3.5 | -0.8 | 1 | J |
| 10 | 379 | 3.2 | 22 | J | 4.1 | -14 | 123 | -2.2 | 3.4 | -0.5 | 0 | J |
| 11 | 374 | 2.7 | 24 | J | 4.0 | -3 | 124 | -2.2 | 3.2 | 0.2 | 1 | J |
| 12 | 375 | 3.0 | 21 | J | 3.9 | -23 | 87 | 0.2 | 3.4 | -0.9 | 2 | J |
| 13 | | | | | 3.9 | -53 | 8 | 1.8 | 0.6 | -2.4 | 2 | J |
| 14 | 280 | 3.9 | 0 | C | 3.5 | 19 | 122 | -1.7 | 2.5 | 1.6 | 1 | J |
| 15 | 332 | 3.4 | 25 | C | 3.7 | 18 | 138 | -2.6 | 2.0 | 1.6 | 1 | J |
| 16 | 336 | 2.2 | 18 | J | 3.7 | 9 | 140 | -2.7 | 2.1 | 1.1 | 1 | J |
| 17 | 360 | 2.7 | 16 | J | 3.7 | -10 | 121 | -1.9 | 3.2 | 0.4 | 0 | J |
| 18 | 329 | 3.4 | 20 | C | 3.7 | -4 | 113 | -1.4 | 3.2 | 1.0 | 1 | J |
| 19 | 367 | 2.5 | 27 | J | 3.5 | -11 | 98 | -0.5 | 3.3 | 0.8 | 1 | J |
| 20 | 326 | 3.3 | 21 | C | 3.5 | -26 | 106 | -0.8 | 3.3 | -0.0 | 1 | J |
| 21 | 339 | 3.0 | 16 | J | 3.2 | -45 | 74 | 0.6 | 2.8 | -0.9 | 1 | J |
| 22 | 335 | 2.8 | 12 | J | 3.1 | -40 | 72 | 0.7 | 3.0 | -0.6 | 1 | J |
| 23 | 330 | 2.3 | 13 | J | 3.1 | -27 | 103 | -0.6 | 2.9 | 0.2 | 1 | J |
| 24 | 326 | 2.7 | 14 | J | 3.0 | -36 | 95 | -0.2 | 2.9 | -0.3 | 1 | J |

## FEB. 13, 1980

44

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 332 | 3.7 | 16 | J | 3.8 | -27 | 103 | -0.7 | 3.6 | 0.2 | 1 | J |
| 2 | 340 | 5.1 | 20 | J | 4.9 | -20 | 91 | -0.1 | 4.7 | 0.7 | 1 | J |
| 3 | 340 | 4.7 | 18 | J | 4.7 | -16 | 89 | 0.1 | 4.6 | 0.9 | 1 | J |
| 4 | 339 | 4.8 | 19 | J | 4.6 | -5 | 90 | -0.0 | 4.3 | 1.5 | 1 | J |
| 5 | 337 | 5.0 | 18 | J | 4.8 | 10 | 82 | 0.6 | 3.8 | 2.3 | 2 | J |
| 6 | 330 | 5.4 | 17 | J | 5.1 | 17 | 75 | 1.2 | 3.7 | 2.6 | 2 | J |
| 7 | 326 | 5.6 | 19 | J | 5.4 | 9 | 84 | 0.5 | 4.5 | 1.9 | 2 | J |
| 8 | 321 | 5.2 | 15 | J | 5.8 | 25 | 88 | 0.2 | 4.1 | 3.0 | 3 | J |
| 9 | 314 | 4.3 | 27 | L | 4.7 | 30 | 79 | 0.7 | 3.5 | 3.0 | 1 | C |
| 10 | 318 | 4.5 | 0 | C | 4.7 | 6 | 87 | 0.3 | 4.5 | 1.2 | 0 | C |
| 11 | 329 | 5.8 | 19 | J | | | | | | | | |
| 12 | 329 | 7.1 | 17 | J | | | | | | | | |
| 13 | 337 | 6.1 | 22 | J | | | | | | | | |
| 14 | 322 | 7.3 | 18 | J | 5.7 | 12 | 73 | 1.4 | 4.3 | 1.8 | 2 | J |
| 15 | 315 | 6.3 | 13 | J | 6.1 | 11 | 80 | 0.9 | 4.8 | 2.1 | 3 | J |
| 16 | 338 | 7.7 | 16 | J | 6.8 | 7 | 90 | -0.0 | 5.9 | 2.4 | 2 | J |
| 17 | 312 | 10.3 | 27 | J | 8.5 | -9 | 96 | -0.8 | 7.6 | 1.2 | 4 | J |
| 18 | 325 | 10.6 | 21 | J | 7.7 | 2 | 93 | -0.4 | 6.6 | 2.9 | 2 | J |
| 19 | 325 | 12.5 | 18 | J | 7.3 | -7 | 85 | 0.6 | 6.8 | 2.1 | 2 | J |
| 20 | 320 | 13.6 | 18 | J | 7.3 | -14 | 86 | 0.5 | 6.7 | 1.5 | 2 | J |
| 21 | 318 | 15.5 | 16 | C | | | | | | | | |
| 22 | 313 | 16.1 | 16 | C | 7.5 | -28 | 85 | 0.5 | 7.4 | 0.3 | 1 | C |
| 23 | 311 | 14.7 | 17 | C | 7.6 | -31 | 90 | -0.0 | 7.5 | 0.0 | 1 | C |
| 24 | 312 | 17.0 | 15 | C | 7.5 | -31 | 86 | 0.4 | 7.4 | 0.1 | 1 | C |

## FEB. 14, 1980

45

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 301 | 17.1 | 11 | C | 7.2 | -25 | 93 | -0.3 | 6.9 | 0.7 | 2 | C |
| 2 | 299 | 16.8 | 10 | C | 7.1 | -30 | 101 | -1.2 | 6.9 | -0.2 | 1 | C |
| 3 | 301 | 15.8 | 12 | C | 7.2 | -18 | 95 | -0.6 | 7.0 | 1.1 | 1 | C |
| 4 | 333 | 22.3 | 26 | C | 12.0 | -19 | 92 | -0.3 | 11.7 | 1.1 | 5 | C |
| 5 | 361 | 27.5 | 40 | C | 14.7 | -9 | 93 | -0.8 | 13.1 | 2.9 | 5 | C |
| 6 | 368 | 16.6 | 42 | C | 16.1 | -4 | 98 | -2.0 | 14.5 | 3.4 | 5 | C |
| 7 | 368 | 16.6 | 50 | C | 15.5 | -3 | 101 | -2.7 | 14.2 | 2.8 | 5 | C |
| 8 | 370 | 15.0 | 56 | C | 14.2 | -6 | 105 | -3.4 | 13.0 | 1.3 | 4 | C |
| 9 | 370 | 14.4 | 32 | C | 15.6 | -34 | 91 | -0.2 | 14.0 | -6.3 | 3 | C |
| 10 | 364 | 17.4 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 377 | 17.1 | 0 | C | | | | | | | | |
| 15 | 371 | 14.4 | 47 | C | 8.3 | -80 | 0 | 1.2 | 1.6 | -6.7 | 4 | C |
| 16 | 364 | 14.3 | 35 | C | 9.4 | -67 | 72 | 1.2 | 5.7 | -7.3 | 1 | C |
| 17 | 358 | 14.4 | 36 | C | 10.2 | -51 | 80 | 1.0 | 8.3 | -5.3 | 2 | C |
| 18 | 351 | 13.5 | 32 | C | 10.8 | -30 | 107 | -2.6 | 10.1 | -1.7 | 2 | C |
| 19 | 353 | 11.5 | 44 | C | 11.4 | -28 | 101 | -1.9 | 10.7 | -0.7 | 3 | C |
| 20 | 355 | 9.5 | 49 | C | 11.9 | -36 | 92 | -0.3 | 11.4 | -1.9 | 3 | C |
| 21 | 353 | 8.1 | 58 | C | 11.6 | -10 | 95 | -1.0 | 10.8 | 3.8 | 2 | C |
| 22 | 350 | 9.0 | 62 | C | 10.6 | 4 | 90 | 0.1 | 8.6 | 5.9 | 2 | C |
| 23 | 355 | 9.5 | 49 | C | 9.7 | 18 | 86 | 0.6 | 6.2 | 7.3 | 1 | C |
| 24 | 354 | 7.4 | 35 | C | 10.2 | 16 | 96 | -0.9 | 6.7 | 7.4 | 1 | C |

## FEB. 15, 1980

46

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 353 | 9.9 | 32 | C | 8.4 | 6 | 93 | -0.3 | 5.4 | 4.0 | 5 | C |
| 2 | 347 | 11.9 | 25 | C | 8.2 | -39 | 134 | -4.4 | 6.5 | -2.2 | 1 | C |
| 3 | 349 | 12.9 | 26 | C | 8.4 | -32 | 122 | -3.7 | 7.3 | -1.2 | 1 | C |
| 4 | 353 | 14.5 | 39 | C | 7.8 | -28 | 120 | -3.2 | 6.6 | -0.9 | 3 | C |
| 5 | 358 | 10.9 | 29 | C | 8.6 | C | 295 | 3.5 | -6.9 | -2.7 | 2 | C |
| 6 | 353 | 9.8 | 34 | C | 8.3 | -7 | 301 | 4.2 | -6.4 | -3.1 | 1 | C |
| 7 | 354 | 9.6 | 27 | C | 8.6 | -18 | 303 | 4.4 | -6.0 | -4.3 | 1 | C |
| 8 | 359 | 8.4 | 25 | C | 8.8 | -18 | 303 | 4.5 | -6.3 | -4.1 | 1 | C |
| 9 | 355 | 8.6 | 31 | C | 8.6 | -17 | 306 | 4.9 | -6.0 | -3.6 | 0 | C |
| 10 | 374 | 7.1 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 424 | 11.6 | 124 | C | 11.6 | 71 | 131 | -2.4 | -1.4 | 11.1 | 1 | C |
| 19 | 440 | 14.8 | 0 | C | 12.3 | 75 | 136 | -2.3 | -3.0 | 11.7 | 1 | C |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 422 | 19.2 | 49 | C | 13.7 | -49 | 279 | 1.2 | -2.0 | -11.7 | 7 | C |
| 23 | 425 | 23.0 | 28 | C | 13.1 | -69 | 289 | 0.8 | 1.5 | -7.1 | 11 | C |
| 24 | 428 | 29.2 | 24 | C | | | | | | | | |

## FEB. 16, 1980

47

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 422 | 14.5 | 14 | C | 13.1 | -15 | 58 | 5.2 | 8.6 | 2.1 | 8 | C |
| 2 | 417 | 8.4 | 18 | C | 13.4 | -68 | 272 | 0.1 | 1.6 | -13.2 | 2 | C |
| 3 | 412 | 8.6 | 14 | C | 14.6 | -71 | 293 | 1.8 | 2.5 | -14.1 | 2 | C |
| 4 | 403 | 7.9 | 13 | C | 14.9 | -80 | 287 | 0.7 | 3.9 | -14.3 | 0 | C |
| 5 | 399 | 7.3 | 12 | C | 14.9 | -81 | 353 | 2.2 | 5.1 | -13.8 | 1 | C |
| 6 | 402 | 5.7 | 12 | C | 14.9 | -77 | 44 | 2.3 | 6.6 | -13.1 | 1 | C |
| 7 | 391 | 5.3 | 29 | C | 14.8 | -73 | 53 | 2.6 | 6.9 | -12.8 | 1 | C |
| 8 | 391 | 6.1 | 14 | C | 14.7 | -61 | 68 | 2.7 | 9.1 | -10.9 | 2 | C |
| 9 | 386 | 9.6 | 19 | C | 14.3 | -50 | 81 | 1.4 | 10.9 | -9.1 | 1 | C |
| 10 | 395 | 7.5 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 385 | 6.5 | 15 | C | 14.5 | -31 | 82 | 1.8 | 13.5 | -5.0 | 0 | C |
| 15 | 378 | 5.4 | 15 | C | 15.1 | -32 | 76 | 3.1 | 13.9 | -4.8 | 1 | C |
| 16 | 372 | 3.6 | 17 | C | 15.3 | -30 | 70 | 4.4 | 14.0 | -3.9 | 1 | C |
| 17 | 372 | 3.4 | 17 | C | 15.6 | -32 | 72 | 4.2 | 14.5 | -3.7 | 1 | C |
| 18 | 382 | 4.4 | 22 | C | 16.2 | -37 | 66 | 5.1 | 14.5 | -4.6 | 2 | C |
| 19 | 389 | 3.8 | 18 | C | 16.2 | -32 | 69 | 5.0 | 15.2 | -2.4 | 1 | C |
| 20 | 381 | 8.8 | 17 | C | 16.0 | -30 | 80 | 2.4 | 15.7 | -0.8 | 1 | C |
| 21 | 384 | 5.9 | 33 | C | 16.1 | -16 | 88 | 0.5 | 15.5 | 3.6 | 3 | C |
| 22 | 368 | 4.9 | 19 | C | 16.6 | -9 | 90 | 0.0 | 15.3 | 6.2 | 1 | C |
| 23 | 367 | 5.9 | 28 | C | 16.1 | 2 | 91 | -0.2 | 13.4 | 8.9 | 1 | C |
| 24 | 366 | 7.0 | 21 | C | 15.4 | 12 | 90 | -0.1 | 11.0 | 10.6 | 1 | C |

## FEB. 17, 1980

48

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 7.5 | 17 | C | 15.2 | 16 | 93 | -0.7 | 10.2 | 11.0 | 1 | C |
| 2 | 356 | 5.0 | 22 | C | 15.0 | 24 | 93 | -0.8 | 8.8 | 12.1 | 1 | C |
| 3 | 349 | 5.0 | 21 | C | 14.5 | 28 | 91 | -0.2 | 8.2 | 11.9 | 1 | C |
| 4 | 358 | 5.4 | 21 | C | 14.1 | 26 | 90 | -0.1 | 8.9 | 10.9 | 0 | C |
| 5 | 350 | 5.4 | 24 | C | 12.9 | 29 | 88 | 0.3 | 8.2 | 9.9 | 0 | C |
| 6 | 360 | 6.1 | 26 | C | 12.2 | 34 | 86 | 0.8 | 7.5 | 9.6 | 1 | C |
| 7 | 358 | 8.6 | 27 | C | 11.4 | 38 | 84 | 0.9 | 6.7 | 9.1 | 1 | C |
| 8 | 358 | 8.5 | 26 | C | 11.8 | 46 | 78 | 1.7 | 5.9 | 9.9 | 2 | C |
| 9 | 350 | 7.1 | 26 | C | 11.5 | 52 | 60 | 3.6 | 4.3 | 10.0 | 1 | C |
| 10 | 339 | 6.4 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 331 | 13.6 | 27 | C | 8.4 | -21 | 287 | 2.2 | -6.8 | -4.4 | 0 | C |
| 15 | 330 | 11.7 | 37 | C | 7.7 | 22 | 304 | 3.4 | -5.6 | 1.2 | 4 | C |
| 16 | 335 | 9.1 | 42 | C | 7.2 | 46 | 336 | 4.2 | -3.2 | 4.1 | 2 | C |
| 17 | 329 | 8.8 | 33 | C | 7.7 | 35 | 350 | 6.1 | -2.4 | 3.8 | 1 | C |
| 18 | 325 | 9.1 | 47 | C | 7.4 | 29 | 338 | 5.9 | -3.6 | 2.4 | 1 | C |
| 19 | 321 | 8.4 | 23 | C | 7.9 | 22 | 357 | 7.0 | -1.5 | 2.4 | 2 | C |
| 20 | 315 | 7.5 | 20 | C | 8.1 | 6 | 10 | 7.7 | 0.9 | 1.4 | 2 | C |
| 21 | 311 | 6.4 | 21 | C | 8.5 | 16 | 26 | 7.2 | 2.0 | 3.7 | 1 | C |
| 22 | 317 | 6.1 | 16 | C | 8.3 | 26 | 33 | 6.2 | 1.6 | 5.2 | 1 | C |
| 23 | 323 | 5.8 | 22 | C | 8.0 | 17 | 36 | 4.5 | 1.9 | 3.2 | 5 | C |
| 24 | 352 | 6.6 | 26 | C | 7.7 | -73 | 32 | 1.9 | 4.8 | -5.4 | 2 | C |

## FEB. 18, 1980

49

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 330 | 7.5 | 28 | C | 7.5 | -60 | 5 | 3.6 | 3.5 | -5.2 | 1 | C |
| 2 | 317 | 6.9 | 23 | C | 8.2 | -47 | 10 | 5.3 | 3.7 | -4.6 | 2 | C |
| 3 | 309 | 6.9 | 34 | C | 8.4 | -24 | 26 | 6.2 | 4.1 | -1.3 | 3 | C |
| 4 | 331 | 5.9 | 47 | C | 8.4 | -7 | 68 | 3.0 | 7.2 | 2.3 | 2 | C |
| 5 | 339 | 7.4 | 22 | C | 8.5 | -11 | 83 | 0.9 | 7.5 | 1.4 | 3 | C |
| 6 | 335 | 7.2 | 21 | C | 9.0 | -7 | 102 | -1.8 | 8.6 | 1.7 | 1 | C |
| 7 | 331 | 7.2 | 34 | C | 8.5 | -19 | 87 | 0.4 | 8.2 | -0.5 | 2 | C |
| 8 | 320 | 7.5 | 33 | C | 8.5 | -43 | 43 | 4.4 | 5.2 | -4.6 | 2 | C |
| 9 | 320 | 6.9 | 22 | C | 8.4 | -52 | 46 | 3.1 | 4.3 | -5.1 | 4 | C |
| 10 | 304 | 7.2 | 27 | C | 8.2 | -41 | 31 | 4.9 | 3.7 | -4.4 | 2 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 302 | 6.0 | 26 | C | | | | | | | | |
| 15 | 309 | 5.6 | 28 | C | 7.6 | -23 | 52 | 4.2 | 5.9 | -1.5 | 2 | C |
| 16 | 366 | 3.6 | 53 | L | 6.9 | -3 | 54 | 3.9 | 5.2 | 1.2 | 2 | C |
| 17 | 370 | 5.0 | 29 | J | 7.0 | -54 | 130 | -2.6 | 4.7 | -4.2 | 1 | J |
| 18 | 374 | 5.2 | 33 | J | 7.8 | -53 | 169 | -4.3 | 3.0 | -5.1 | 4 | J |
| 19 | 367 | 6.1 | 18 | C | 6.8 | -57 | 201 | -3.4 | 1.2 | -5.6 | 1 | C |
| 20 | 356 | 5.3 | 20 | C | 6.5 | -66 | 163 | -2.5 | 3.4 | -4.9 | 1 | C |
| 21 | 322 | 5.3 | 0 | C | 6.2 | -68 | 124 | -1.3 | 4.5 | -4.0 | 1 | C |
| 22 | 297 | 4.8 | 0 | C | 6.0 | -59 | 48 | 2.0 | 4.5 | -3.1 | 1 | C |
| 23 | 299 | 4.6 | 0 | C | 6.6 | -30 | 57 | 1.6 | 3.0 | -0.1 | 5 | C |
| 24 | 338 | 4.3 | 0 | C | 6.5 | -44 | 213 | -3.6 | 0.2 | -4.7 | 2 | C |

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02/19/80 – 02/26/80

FEB. 19, 1980

50

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 334 | 3.8 | 0 | C | 5.9 | -47 | 192 | -3.6 | 1.4 | -3.7 | 3 | C |
| 2 | 310 | 4.6 | 0 | C | 6.1 | -55 | 187 | -3.2 | 2.0 | -4.2 | 2 | C |
| 3 | 297 | 4.1 | 0 | C | 6.5 | -59 | 199 | -3.1 | 1.6 | -5.4 | 1 | C |
| 4 | 303 | 4.9 | 0 | C | 6.9 | -58 | 203 | -3.4 | 1.2 | -5.9 | 1 | C |
| 5 | 325 | 6.4 | 0 | C | 5.2 | 37 | 255 | -0.9 | -4.1 | 1.2 | 3 | C |
| 6 | 340 | 9.1 | 25 | J | 3.6 | -52 | 93 | -0.1 | 2.8 | -1.8 | 2 | J |
| 7 | 341 | 5.8 | 19 | J | 3.6 | -55 | 124 | -1.1 | 2.4 | -2.3 | 1 | J |
| 8 | 336 | 5.9 | 19 | J | 3.8 | 9 | 264 | -0.3 | -2.7 | -0.2 | 3 | J |
| 9 | 291 | 5.8 | 0 | C | 4.3 | 8 | 271 | 0.1 | -4.0 | -0.2 | 1 | C |
| 10 | 291 | 5.6 | 0 | C | 5.1 | 22 | 283 | 1.1 | -4.9 | 1.1 | 0 | C |
| 11 | | | | | 3.9 | 51 | 294 | 1.0 | -2.6 | 2.6 | 1 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 333 | 2.4 | 13 | J | | | | | | | | |
| 15 | 317 | 3.4 | 15 | J | 3.5 | -6 | 280 | 0.6 | -3.0 | -1.1 | 1 | J |
| 16 | 315 | 3.2 | 15 | J | 3.4 | -7 | 279 | 0.5 | -2.8 | -1.2 | 1 | J |
| 17 | 319 | 5.7 | 12 | J | 2.6 | 21 | 95 | -0.2 | 2.0 | 1.7 | 0 | J |
| 18 | | | | | 2.7 | 24 | 100 | -0.4 | 1.5 | 1.6 | 1 | J |
| 19 | 322 | 6.1 | 14 | J | 3.2 | 2 | 115 | -1.1 | 2.2 | 1.1 | 2 | J |
| 20 | 332 | 4.7 | 15 | J | 3.9 | 9 | 114 | -1.4 | 2.6 | 2.0 | 1 | J |
| 21 | 330 | 5.5 | 15 | J | 3.7 | -3 | 118 | -1.5 | 2.6 | 1.3 | 2 | J |
| 22 | 330 | 4.7 | 16 | J | 3.7 | 6 | 125 | -2.0 | 2.2 | 1.8 | 1 | J |
| 23 | 344 | 5.5 | 22 | J | 3.4 | -38 | 177 | -2.2 | 1.0 | -1.4 | 2 | J |
| 24 | 345 | 6.2 | 24 | J | 3.6 | -54 | 212 | -1.8 | 0.6 | -3.1 | 1 | J |

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51

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | [illegible] | 6.4 | 21 | J | 4.1 | -47 | 183 | -2.7 | 1.4 | -2.6 | 1 | J |
| 2 | 357 | 8.1 | 31 | J | 4.1 | -39 | 182 | -3.2 | 1.2 | -2.3 | 1 | J |
| 3 | [illegible] | 6.4 | 0 | C | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 319 | 12.1 | 24 | J | 4.2 | 47 | 110 | -1.0 | 1.5 | 3.7 | 1 | J |
| 7 | 347 | 12.1 | 32 | J | 4.1 | 34 | 143 | -2.4 | 1.2 | 2.4 | 2 | J |
| 8 | 339 | 12.6 | 18 | J | 4.9 | 29 | 176 | -4.2 | -0.2 | 2.3 | 1 | J |
| 9 | 329 | 12.0 | 0 | C | 3.9 | -50 | 188 | -2.3 | 0.2 | -2.8 | 1 | J |
| 10 | 332 | 12.8 | 0 | C | 4.0 | -24 | 168 | -3.5 | 1.0 | -1.4 | 1 | J |
| 11 | | | | | | | | | | | | |
| 12 | 340 | 15.1 | 14 | J | 5.0 | -18 | 184 | -4.7 | -0.1 | -1.6 | 0 | J |
| 13 | | | | | | | | | | | | |
| 14 | 314 | 14.2 | 0 | C | 6.7 | -20 | 144 | -5.1 | 4.1 | -1.5 | 0 | C |
| 15 | 327 | 15.7 | 18 | J | 6.2 | -18 | 149 | -4.8 | 3.2 | -1.1 | 2 | J |
| 16 | 313 | 14.0 | 0 | C | | | | | | | | |
| 17 | 331 | 15.8 | 12 | J | 7.0 | 6 | 121 | -3.5 | 5.3 | 2.7 | 1 | J |
| 18 | 314 | 13.3 | 0 | C | 7.2 | 20 | 120 | -3.2 | 4.1 | 4.2 | 3 | C |
| 19 | 335 | 10.7 | 19 | J | 7.4 | 24 | 117 | -3.0 | 4.1 | 5.2 | 1 | J |
| 20 | 330 | 8.5 | 26 | J | 7.8 | 2 | 127 | -4.5 | 5.1 | 3.0 | 2 | J |
| 21 | 314 | 6.0 | 31 | J | 8.2 | -10 | 136 | -5.7 | 5.5 | 1.6 | 1 | J |
| 22 | 310 | 5.3 | 22 | J | 8.5 | -21 | 149 | -6.7 | 5.0 | -0.4 | 1 | J |
| 23 | 302 | 5.0 | 15 | J | 8.5 | -22 | 161 | -7.4 | 3.8 | -1.3 | 1 | J |
| 24 | 303 | 5.9 | 0 | C | 8.7 | -23 | 178 | -7.9 | 2.1 | -2.7 | 1 | C |

FEB. 21, 1980

52

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 295 | 6.0 | 0 | C | 8.7 | -21 | 192 | -7.9 | 0.2 | -3.5 | 1 | C |
| 2 | 297 | 7.0 | 0 | C | 8.9 | -33 | 167 | -7.1 | 3.9 | -3.3 | 1 | C |
| 3 | 289 | 7.7 | 0 | C | 8.7 | -23 | 170 | -7.7 | 2.8 | -2.3 | 2 | C |
| 4 | 297 | 7.4 | 27 | J | 8.5 | 18 | 193 | -7.8 | -2.7 | 1.6 | 1 | J |
| 5 | 306 | 8.7 | 44 | J | 7.3 | 17 | 201 | -6.3 | -3.0 | 1.0 | 2 | J |
| 6 | 309 | 9.2 | 45 | J | 6.8 | 9 | 193 | -6.4 | -1.8 | 0.5 | 1 | J |
| 7 | 322 | 8.0 | 40 | J | 6.9 | 8 | 239 | -3.2 | -5.4 | -0.6 | 3 | J |
| 8 | 328 | 8.0 | 33 | J | 6.8 | 21 | 244 | -2.8 | -6.1 | 1.0 | 1 | J |
| 9 | 328 | 8.4 | 28 | J | 7.0 | 23 | 251 | -2.0 | -6.2 | 1.4 | 2 | J |
| 10 | 348 | 9.3 | 49 | J | 6.6 | 47 | 355 | 2.8 | -0.8 | 2.9 | 5 | J |
| 11 | 339 | 11.1 | 50 | J | 5.4 | 33 | 250 | -1.5 | -4.4 | 2.1 | 2 | J |
| 12 | 337 | 10.6 | 34 | J | 6.6 | 40 | 224 | -3.4 | -3.9 | 3.4 | 2 | J |
| 13 | 332 | 12.9 | 60 | J | 6.4 | 34 | 187 | -5.1 | -1.3 | 3.3 | 2 | J |
| 14 | 328 | 13.2 | 37 | J | 6.1 | 18 | 172 | -5.7 | 0.4 | 2.0 | 1 | J |
| 15 | 320 | 12.9 | 40 | J | 7.0 | 37 | 128 | -3.2 | 3.0 | 4.9 | 3 | J |
| 16 | 303 | 11.6 | 0 | C | 7.6 | 36 | 154 | -5.4 | 1.3 | 5.0 | 1 | C |
| 17 | 316 | 11.4 | 37 | J | 8.1 | 61 | 139 | -2.9 | -0.0 | 7.4 | 1 | J |
| 18 | 317 | 14.5 | 32 | J | 7.3 | 81 | 215 | -0.9 | -3.3 | 6.1 | 2 | J |
| 19 | 321 | 12.1 | 28 | J | 7.4 | 76 | 175 | -1.5 | -2.5 | 5.6 | 4 | J |
| 20 | 312 | 13.5 | 36 | J | 7.0 | 28 | 242 | -2.7 | -5.9 | 0.3 | 3 | J |
| 21 | 308 | 16.2 | 64 | J | 7.5 | 9 | 226 | -4.9 | -4.9 | -1.6 | 2 | J |
| 22 | 304 | 13.9 | 22 | J | 8.9 | 34 | 219 | -5.3 | -6.1 | 1.6 | 3 | J |
| 23 | 300 | 14.1 | 21 | J | 9.3 | 68 | 189 | -3.3 | -5.0 | 6.7 | 2 | J |
| 24 | 306 | 12.9 | 19 | J | 9.4 | 67 | 99 | -0.6 | -1.6 | 9.0 | 2 | J |

FEB. 22, 1980

53

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 307 | 13.3 | 20 | J | 9.4 | 62 | 95 | -0.4 | -0.6 | 9.2 | 2 | J |
| 2 | 321 | 18.0 | 29 | J | 10.9 | 34 | 90 | -0.0 | 4.5 | 9.4 | 3 | J |
| 3 | 326 | 19.8 | 35 | J | 10.6 | 47 | 82 | 1.0 | 2.6 | 9.9 | 2 | J |
| 4 | 318 | 19.3 | 38 | J | 10.8 | 32 | 103 | -1.9 | 5.2 | 8.3 | 4 | J |
| 5 | 322 | 14.3 | 48 | J | 11.3 | 46 | 101 | -1.5 | 3.9 | 10.1 | 3 | J |
| 6 | 307 | 14.9 | 0 | C | 10.0 | 47 | 109 | -2.1 | 3.4 | 8.4 | 3 | C |
| 7 | 304 | 13.9 | 0 | C | 9.4 | 26 | 112 | -2.7 | 5.5 | 5.3 | 4 | C |
| 8 | 324 | 10.4 | 47 | J | 10.8 | 22 | 98 | -1.4 | 8.6 | 6.2 | 2 | J |
| 9 | 328 | 11.7 | 50 | J | 9.9 | 44 | 96 | -0.7 | 5.4 | 7.9 | 2 | J |
| 10 | 329 | 11.2 | 60 | J | 8.8 | 28 | 99 | -1.2 | 6.6 | 5.2 | 2 | J |
| 11 | 307 | 12.3 | 0 | C | 9.3 | 35 | 100 | -1.3 | 6.2 | 6.3 | 2 | C |
| 12 | 310 | 11.3 | 0 | C | 10.1 | 2 | 94 | -0.7 | 8.3 | 1.7 | 5 | C |
| 13 | 309 | 10.1 | 0 | C | 10.7 | 31 | 103 | -2.0 | 7.7 | 6.9 | 1 | C |
| 14 | 307 | 9.7 | 0 | C | 10.4 | 13 | 103 | -2.1 | 8.9 | 4.2 | 2 | C |
| 15 | 310 | 9.1 | 0 | C | 10.3 | -12 | 105 | -2.6 | 9.5 | 0.4 | 3 | C |
| 16 | 325 | 8.6 | 37 | J | 9.9 | -22 | 107 | -2.6 | 9.3 | -0.9 | 2 | J |
| 17 | 341 | 9.3 | 34 | J | 9.8 | -43 | 111 | -2.6 | 8.6 | -4.0 | 0 | J |
| 18 | 305 | 9.1 | 0 | C | 10.0 | -3 | 106 | -2.7 | 9.0 | 3.2 | 1 | C |
| 19 | 305 | 9.1 | 0 | C | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 309 | 11.4 | 0 | C | 9.7 | -22 | 105 | -2.3 | 9.1 | 1.2 | 2 | C |
| 22 | 323 | 21.6 | 28 | J | 7.0 | 68 | 298 | 1.2 | -5.3 | 4.2 | 1 | J |
| 23 | 331 | 21.8 | 28 | J | 6.8 | 67 | 319 | 2.0 | -4.9 | 4.3 | 1 | J |
| 24 | 330 | 26.7 | 24 | J | 6.2 | 47 | 352 | 4.1 | -2.9 | 3.4 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 331 | 29.2 | 22 | J | 5.7 | 39 | 0 | 4.4 | -1.9 | 3.0 | 0 | J |
| 2 | 324 | 25.0 | 0 | C | 8.2 | 38 | 336 | 5.9 | -4.7 | 3.0 | 1 | C |
| 3 | 326 | 17.3 | 0 | C | 10.5 | 54 | 343 | 5.9 | -5.6 | 6.5 | 1 | C |
| 4 | 328 | 17.2 | 0 | C | 9.8 | 45 | 329 | 5.9 | -6.2 | 4.6 | 1 | C |
| 5 | 325 | 14.3 | 0 | C | 9.4 | 32 | 332 | 7.0 | -5.4 | 3.1 | 0 | C |
| 6 | 314 | 11.5 | 0 | C | 9.5 | 23 | 325 | 7.2 | -5.9 | 1.9 | 1 | C |
| 7 | 309 | 10.4 | 0 | C | 9.7 | 17 | 324 | 7.4 | -6.0 | 1.2 | 1 | C |
| 8 | 338 | 9.1 | 15 | J | 10.1 | 20 | 302 | 4.8 | -8.3 | 1.4 | 3 | J |
| 9 | 341 | 9.6 | 18 | J | 10.2 | -4 | 293 | 3.7 | -8.4 | -2.4 | 4 | J |
| 10 | 332 | 10.1 | 0 | C | 10.5 | -23 | 281 | 1.8 | -8.1 | -5.3 | 3 | C |
| 11 | 328 | 9.1 | 0 | C | 11.0 | -16 | 283 | 2.3 | -9.4 | -4.6 | 2 | C |
| 12 | 327 | 8.7 | 0 | C | 10.1 | 34 | 321 | 5.7 | -5.5 | 4.2 | 4 | C |
| 13 | 313 | 6.7 | 0 | C | 10.5 | 3 | 289 | 3.4 | -9.7 | -1.4 | 1 | C |
| 14 | 313 | 6.7 | 0 | C | 11.5 | -9 | 269 | -0.2 | -10.4 | -4.2 | 2 | C |
| 15 | 329 | 4.3 | 22 | J | 11.3 | -12 | 273 | 0.6 | -10.0 | -5.0 | 1 | J |
| 16 | 323 | 8.6 | 26 | J | 10.3 | -33 | 281 | 1.6 | -6.2 | -7.6 | 3 | J |
| 17 | 315 | 8.1 | 0 | C | 9.6 | -24 | 293 | 3.4 | -6.0 | -6.4 | 2 | C |
| 18 | 297 | 11.2 | 0 | C | 9.9 | -35 | 284 | 1.8 | -4.7 | -7.8 | 3 | C |
| 19 | 350 | 15.4 | 34 | J | 8.6 | -29 | 174 | -6.2 | 2.1 | -2.8 | 5 | J |
| 20 | 347 | 15.5 | 33 | J | 6.5 | -35 | 216 | -3.2 | -0.7 | -3.5 | 4 | J |
| 21 | 319 | 14.8 | 27 | J | 6.7 | -73 | 79 | 0.3 | 4.6 | -4.2 | 3 | J |
| 22 | 302 | 12.9 | 27 | J | 6.6 | -39 | 26 | 4.5 | 4.0 | -2.2 | 2 | J |
| 23 | 303 | 14.0 | 0 | C | 7.3 | -56 | 71 | 1.2 | 6.2 | -2.9 | 2 | C |
| 24 | 321 | 16.9 | 18 | J | 5.1 | -58 | 82 | 0.3 | 4.4 | -2.1 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 320 | 17.4 | 16 | J | 5.0 | -60 | 127 | -1.5 | 4.0 | -2.6 | 1 | J |
| 2 | 312 | 14.7 | 0 | C | 4.4 | -61 | 121 | -1.0 | 3.1 | -2.1 | 2 | C |
| 3 | 308 | 14.4 | 14 | J | 5.3 | -45 | 141 | -2.9 | 3.8 | -2.1 | 1 | J |
| 4 | 308 | 14.3 | 16 | J | 5.1 | -50 | 117 | -1.4 | 4.2 | -2.2 | 1 | J |
| 5 | 304 | 10.7 | 21 | J | 4.7 | -40 | 98 | -0.5 | 4.1 | -1.3 | 2 | J |
| 6 | 300 | 8.3 | 31 | J | 5.8 | -27 | 123 | -2.7 | 4.8 | -1.0 | 1 | J |
| 7 | 289 | 8.8 | 0 | C | 6.1 | -25 | 119 | -2.6 | 5.2 | -1.1 | 1 | C |
| 8 | 292 | 8.1 | 0 | C | 6.5 | -27 | 127 | -3.4 | 5.1 | -1.6 | 1 | C |
| 9 | 300 | 7.7 | 24 | J | 6.3 | -41 | 157 | -4.3 | 2.6 | -3.6 | 1 | J |
| 10 | 302 | 8.6 | 19 | J | 6.2 | -20 | 127 | -3.5 | 4.9 | -1.2 | 1 | J |
| 11 | 298 | 11.5 | 18 | J | 5.7 | -20 | 134 | -3.6 | 4.0 | -1.2 | 1 | J |
| 12 | 304 | 12.9 | 14 | J | 5.7 | -18 | 129 | -3.4 | 4.4 | -1.0 | 1 | J |
| 13 | 309 | 14.0 | 0 | C | 4.0 | -2 | 84 | 0.3 | 3.0 | 0.5 | 3 | C |
| 14 | 317 | 12.9 | 14 | J | 6.2 | -54 | 165 | -3.5 | 2.0 | -4.6 | 2 | J |
| 15 | 316 | 11.0 | 16 | J | 6.7 | -40 | 133 | -3.5 | 4.7 | -3.1 | 1 | J |
| 16 | 316 | 13.7 | 17 | J | 6.3 | 15 | 109 | -1.3 | 3.2 | 2.1 | 5 | J |
| 17 | 310 | 16.3 | 22 | J | 4.7 | 79 | 21 | 0.8 | -1.3 | 4.3 | 1 | J |
| 18 | 295 | 14.6 | 0 | C | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 307 | 15.6 | 25 | J | 3.9 | 29 | 68 | 1.2 | 1.7 | 3.2 | 1 | J |
| 22 | 299 | 14.4 | 0 | C | 3.9 | 10 | 102 | -0.8 | 2.7 | 2.5 | 1 | C |
| 23 | 304 | 15.3 | 30 | J | 3.6 | -7 | 64 | 1.6 | 2.9 | 1.4 | 1 | J |
| 24 | 311 | 14.3 | 24 | J | 5.0 | -13 | 87 | 0.2 | 4.6 | 1.7 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 315 | 12.9 | 22 | J | 5.0 | -22 | 100 | -0.6 | 3.6 | 0.6 | 3 | J |
| 2 | 318 | 17.5 | 22 | J | 3.3 | 42 | 85 | 0.1 | 0.7 | 2.2 | 2 | J |
| 3 | 316 | 16.9 | 23 | J | 3.7 | -75 | 133 | -0.6 | 2.3 | -2.7 | 1 | J |
| 4 | 316 | 18.1 | 23 | J | 3.2 | 71 | 89 | 0.0 | -0.3 | 2.6 | 2 | J |
| 5 | 324 | 20.6 | 22 | J | 2.2 | 43 | 114 | -0.5 | 0.6 | 1.6 | 1 | J |
| 6 | 313 | 21.3 | 19 | J | 2.1 | 67 | 114 | -0.3 | 0.1 | 2.0 | 1 | J |
| 7 | 312 | 18.5 | 19 | J | 3.1 | 78 | 156 | -0.5 | -0.5 | 2.3 | 2 | J |
| 8 | 308 | 18.7 | 14 | J | 3.7 | -10 | 135 | -2.6 | 2.7 | 0.0 | 0 | J |
| 9 | 306 | 16.5 | 15 | J | 4.3 | -19 | 138 | -2.9 | 2.8 | -0.8 | 1 | J |
| 10 | 302 | 8.8 | 14 | J | 6.0 | -6 | 137 | -4.4 | 4.1 | 0.1 | 1 | J |
| 11 | 317 | 12.1 | 25 | J | 5.3 | -12 | 138 | -3.8 | 3.5 | -0.5 | 1 | J |
| 12 | 321 | 11.8 | 0 | C | 3.6 | -22 | 151 | -2.8 | 1.7 | -1.0 | 2 | J |
| 13 | 310 | 17.0 | 0 | C | 4.8 | -22 | 155 | -4.0 | 2.1 | -1.4 | 1 | J |
| 14 | 310 | 14.3 | 35 | J | 5.5 | -21 | 170 | -5.0 | 1.3 | -1.7 | 1 | J |
| 15 | 324 | 22.0 | 33 | J | 7.3 | -16 | 169 | -6.7 | 1.8 | -1.6 | 3 | J |
| 16 | 341 | 29.2 | 33 | J | 7.6 | 6 | 328 | 5.4 | -3.4 | -0.4 | 5 | J |
| 17 | 361 | 26.3 | 41 | J | 13.0 | 31 | 310 | 6.6 | -9.6 | 3.0 | 5 | J |
| 18 | 368 | 23.6 | 48 | J | 15.6 | 4 | 297 | 6.7 | -12.5 | -4.3 | 5 | J |
| 19 | 364 | 22.3 | 53 | J | 16.2 | 9 | 295 | 6.6 | -13.8 | -4.1 | 4 | J |
| 20 | 358 | 22.8 | 54 | J | 17.0 | -11 | 298 | 7.8 | -11.3 | -10.0 | 1 | J |
| 21 | 357 | 26.3 | 73 | J | 16.4 | 3 | 300 | 8.0 | -12.4 | -6.5 | 3 | J |
| 22 | 340 | 32.1 | 0 | C | 16.1 | 4 | 306 | 9.0 | -10.9 | -5.7 | 4 | C |
| 23 | 324 | 32.7 | 0 | C | 13.3 | 36 | 359 | 8.9 | -3.7 | 5.3 | 7 | C |
| 24 | 301 | 38.0 | 0 | C | 17.7 | -48 | 331 | 8.8 | 2.1 | -12.1 | 8 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 363 | 8.5 | 0 | C | 20.3 | 24 | 286 | 4.9 | -18.9 | -2.0 | 4 | C |
| 3 | 418 | 7.1 | 0 | C | 16.5 | 42 | 276 | 1.2 | -15.0 | 3.4 | 5 | C |
| 4 | 432 | 7.4 | 0 | C | 14.6 | 44 | 276 | 1.2 | -13.5 | 4.5 | 2 | C |
| 5 | 438 | 9.6 | 0 | C | 12.2 | 47 | 274 | 0.5 | -10.1 | 4.5 | 5 | C |
| 6 | 421 | 11.6 | 0 | C | 11.7 | 31 | 267 | -0.6 | -10.9 | 2.2 | 3 | C |
| 7 | 403 | 9.3 | 0 | C | 12.2 | 27 | 274 | 0.8 | -11.6 | 2.1 | 2 | C |
| 8 | 395 | 10.3 | 0 | C | 11.0 | 33 | 266 | -0.6 | -10.0 | 3.4 | 3 | C |
| 9 | 394 | 11.0 | 0 | C | 12.9 | 29 | 292 | 4.2 | -11.2 | 3.8 | 3 | C |
| 10 | 410 | 10.8 | 0 | C | 13.6 | 13 | 298 | 5.9 | -11.5 | 0.6 | 4 | C |
| 11 | 462 | 9.0 | 0 | C | 11.3 | 12 | 299 | 4.8 | -8.7 | 0.4 | 5 | C |
| 12 | 475 | 8.3 | 0 | C | 12.9 | 10 | 301 | 4.8 | -8.1 | 0.2 | 8 | C |
| 13 | 467 | 8.2 | 0 | C | 13.1 | -17 | 319 | 8.2 | -6.3 | -4.6 | 6 | C |
| 14 | 460 | 7.7 | 0 | C | 12.2 | 28 | 329 | 7.4 | -5.4 | 3.5 | 6 | C |
| 15 | 455 | 6.3 | 0 | C | 12.2 | 12 | 303 | 6.2 | -9.9 | -0.2 | 3 | C |
| 16 | 469 | 5.8 | 0 | C | 10.4 | 21 | 312 | 6.2 | -7.6 | 1.3 | 3 | C |
| 17 | 495 | 4.8 | 0 | C | 8.5 | 27 | 298 | 2.4 | -5.2 | 0.9 | 6 | C |
| 18 | 514 | 3.8 | 0 | C | 7.7 | 46 | 309 | 3.2 | -5.7 | 3.2 | 2 | C |
| 19 | 515 | 4.0 | 0 | C | 5.8 | -11 | 14 | 3.6 | 1.1 | -0.3 | 4 | C |
| 20 | 529 | 3.9 | 0 | C | 6.4 | 3 | 29 | 4.7 | 2.2 | 1.5 | 3 | C |
| 21 | 527 | 3.7 | 0 | C | 6.9 | 33 | 354 | 4.5 | -2.0 | 2.3 | 3 | C |
| 22 | 516 | 3.6 | 0 | C | 7.1 | 29 | 7 | 5.5 | -1.1 | 2.9 | 2 | C |
| 23 | 538 | 3.6 | 0 | C | 7.2 | 13 | 1 | 6.0 | -0.6 | 1.2 | 3 | C |
| 24 | 564 | 3.5 | 0 | C | 7.6 | 63 | 292 | 0.9 | -4.4 | 2.6 | 5 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 553 | 3.4 | 0 | C | 7.7 | 64 | 3 | 3.0 | -3.3 | 5.3 | 2 | C |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 539 | 2.9 | 0 | C | | | | | | | | |
| 7 | 539 | 2.9 | 0 | C | 5.8 | 35 | 326 | 3.4 | -3.1 | 2.1 | 2 | C |
| 8 | 589 | 2.7 | 0 | C | 6.3 | -10 | 325 | 3.4 | -2.2 | -1.3 | 4 | C |
| 9 | 576 | 2.5 | 0 | C | 6.1 | 1 | 339 | 4.7 | -1.8 | -0.3 | 3 | C |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 563 | 2.5 | 0 | C | 6.4 | -40 | 7 | 4.5 | 1.3 | -3.6 | 2 | C |
| 14 | 563 | 2.5 | 0 | C | 6.3 | -27 | 347 | 5.2 | -0.6 | -2.9 | 1 | C |
| 15 | 590 | 2.4 | 0 | C | 6.2 | 27 | 309 | 3.3 | -4.7 | 1.5 | 1 | C |
| 16 | 579 | 2.5 | 0 | C | 6.1 | 25 | 302 | 2.8 | -5.0 | 1.0 | 1 | C |
| 17 | 572 | 2.3 | 0 | C | 6.0 | 3 | 322 | 4.4 | -3.4 | -1.0 | 1 | C |
| 18 | 524 | 2.2 | 0 | C | 5.9 | 7 | 337 | 5.2 | -2.3 | -0.3 | 1 | C |
| 19 | 573 | 2.3 | 0 | C | 6.1 | -3 | 317 | 4.3 | -3.3 | -2.0 | 1 | C |
| 20 | 557 | 2.3 | 0 | C | 6.2 | 7 | 315 | 4.2 | -4.1 | -1.4 | 1 | C |
| 21 | 546 | 2.4 | 0 | C | 6.0 | 6 | 297 | 2.6 | -4.6 | -2.2 | 1 | C |
| 22 | 557 | 2.3 | 0 | C | 5.0 | -5 | 272 | 0.1 | -2.9 | -2.2 | 3 | C |
| 23 | 577 | 2.3 | 0 | C | 4.6 | 2 | 270 | -0.0 | -3.4 | -2.1 | 2 | C |
| 24 | 544 | 2.4 | 0 | C | 4.1 | -12 | 317 | 2.6 | -1.6 | -2.0 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 524 | 2.8 | 0 | C | 4.7 | -9 | 257 | -0.7 | -2.3 | -2.1 | 3 | C |
| 2 | 509 | 3.0 | 0 | C | 5.3 | 24 | 322 | 2.8 | -2.7 | 0.2 | 3 | C |
| 3 | 490 | 3.2 | 0 | C | 5.2 | 20 | 332 | 4.0 | -2.6 | 0.4 | 2 | C |
| 4 | 501 | 3.0 | 0 | C | 5.7 | -1 | 245 | -1.9 | -3.7 | -2.0 | 3 | C |
| 5 | 511 | 3.1 | 0 | C | 5.6 | 6 | 220 | -4.0 | -3.4 | -0.8 | 1 | C |
| 6 | 500 | 3.4 | 0 | C | 5.1 | 15 | 228 | -3.1 | -3.8 | -0.0 | 1 | C |
| 7 | 473 | 4.0 | 0 | C | 4.6 | 4 | 252 | -1.2 | -3.6 | -0.8 | 2 | C |
| 8 | 444 | 4.8 | 0 | C | 4.6 | -45 | 286 | 0.5 | -1.3 | -2.3 | 4 | C |
| 9 | 447 | 4.9 | 0 | C | 4.3 | -62 | 274 | 0.1 | -0.6 | -2.2 | 3 | C |
| 10 | 439 | 4.3 | 0 | C | 4.8 | -63 | 50 | 1.2 | 2.0 | -3.2 | 2 | C |
| 11 | 440 | 3.9 | 0 | C | 4.7 | -41 | 63 | 1.5 | 3.5 | -2.3 | 1 | C |
| 12 | 460 | 3.0 | 0 | C | 4.7 | -11 | 46 | 2.9 | 3.1 | -0.2 | 2 | C |
| 13 | 462 | 2.7 | 0 | C | 4.4 | -8 | 10 | 4.1 | 0.8 | -0.5 | 1 | C |
| 14 | 449 | 3.0 | 0 | C | 4.1 | -2 | 8 | 4.0 | 0.6 | 0.0 | 0 | C |
| 15 | 426 | 3.4 | 0 | C | 4.1 | 2 | 3 | 4.1 | 0.2 | 0.2 | 0 | C |
| 16 | 399 | 3.5 | 0 | C | 4.0 | 5 | 357 | 4.0 | -0.3 | 0.2 | 0 | C |
| 17 | 438 | 2.6 | 0 | C | 3.8 | -12 | 356 | 3.5 | 0.0 | -0.8 | 1 | C |
| 18 | 437 | 2.4 | 0 | C | | | | | | | | |
| 19 | 437 | 2.4 | 0 | C | 3.6 | 22 | 237 | -1.6 | -2.7 | -0.1 | 1 | C |
| 20 | 438 | 2.7 | 0 | C | 3.3 | -6 | 304 | 1.4 | -1.7 | -1.3 | 2 | C |
| 21 | 404 | 4.1 | 0 | C | 4.5 | -9 | 297 | 1.8 | -2.7 | -2.4 | 2 | C |
| 22 | 397 | 4.8 | 0 | C | 4.3 | -12 | 315 | 2.4 | -1.6 | -1.9 | 2 | C |
| 23 | 426 | 4.2 | 0 | C | 5.5 | -31 | 21 | 4.1 | 2.8 | -1.3 | 2 | C |
| 24 | 434 | 3.5 | 0 | C | 5.6 | -12 | 276 | 0.6 | -3.9 | -3.9 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 420 | 3.4 | 0 | C | 5.5 | 0 | 278 | 0.8 | -4.4 | -2.9 | 1 | C |
| 2 | 418 | 3.1 | 0 | C | 4.8 | 11 | 283 | 0.9 | -3.7 | -1.3 | 2 | C |
| 3 | 452 | 2.5 | 0 | C | 4.2 | 8 | 318 | 2.4 | -2.0 | -0.6 | 3 | C |
| 4 | 433 | 2.6 | 0 | C | 3.9 | 8 | 33 | 3.0 | 1.5 | 1.3 | 2 | C |
| 5 | 416 | 2.6 | 0 | C | 3.0 | 13 | 312 | 1.1 | -1.2 | -0.1 | 2 | C |
| 6 | 428 | 2.6 | 0 | C | 3.3 | 21 | 302 | 1.5 | -2.7 | 0.2 | 1 | C |
| 7 | 438 | 2.6 | 0 | C | 3.8 | 29 | 311 | 1.8 | -2.4 | 0.8 | 2 | C |
| 8 | 432 | 2.5 | 0 | C | 4.2 | -3 | 286 | 1.0 | -3.4 | -1.1 | 2 | C |
| 9 | 443 | 2.5 | 0 | C | 4.3 | -14 | 283 | 0.8 | -3.5 | -1.7 | 1 | C |
| 10 | 431 | 2.7 | 0 | C | 4.4 | -9 | 269 | -0.1 | -4.1 | -1.5 | 1 | C |
| 11 | 433 | 2.9 | 0 | C | 4.6 | 19 | 294 | 1.4 | -3.3 | 0.6 | 3 | C |
| 12 | 436 | 3.1 | 0 | C | 4.3 | -13 | 53 | 2.0 | 2.7 | -0.3 | 2 | C |
| 13 | 437 | 2.9 | 0 | C | 4.3 | 10 | 56 | 2.1 | 3.0 | 1.3 | 2 | C |
| 14 | 442 | 2.8 | 0 | C | 4.0 | 18 | 76 | 0.8 | 3.0 | 1.8 | 1 | C |
| 15 | 433 | 2.7 | 0 | C | 4.1 | 21 | 60 | 1.8 | 2.6 | 2.1 | 1 | C |
| 16 | 418 | 2.8 | 0 | C | 3.4 | -15 | 336 | 2.3 | -0.8 | -0.9 | 2 | C |
| 17 | 418 | 2.8 | 0 | C | 3.7 | -36 | 311 | 1.6 | -1.1 | -2.4 | 2 | C |
| 18 | 408 | 3.0 | 0 | C | 4.0 | -9 | 320 | 2.7 | -1.8 | -1.4 | 2 | C |
| 19 | 425 | 2.9 | 0 | C | 3.6 | 14 | 255 | -0.8 | -3.1 | -0.7 | 1 | C |
| 20 | 422 | 3.1 | 0 | C | 3.9 | 7 | 230 | -2.4 | -2.8 | -1.1 | 0 | C |
| 21 | 395 | 4.3 | 0 | C | 3.5 | 9 | 228 | -2.2 | -2.3 | -0.8 | 1 | C |
| 22 | 383 | 4.8 | 0 | C | 3.4 | 5 | 210 | -2.6 | -1.4 | -0.6 | 1 | C |
| 23 | 382 | 4.9 | 0 | C | 3.7 | 18 | 191 | -2.9 | -1.0 | 0.5 | 2 | C |
| 24 | 384 | 4.9 | 0 | C | 3.1 | 42 | 223 | -1.3 | -1.9 | 0.6 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 393 | 4.4 | 0 | C | 2.1 | 57 | 75 | 0.2 | -0.0 | 1.8 | 1 | C |
| 2 | 380 | 4.4 | 0 | C | 3.4 | 42 | 301 | 1.1 | -2.6 | 0.7 | 2 | C |
| 3 | 378 | 4.2 | 0 | C | 4.8 | 16 | 279 | 0.7 | -4.1 | -0.9 | 2 | C |
| 4 | 376 | 4.2 | 0 | C | 3.1 | -25 | 279 | 0.3 | -1.5 | -1.9 | 2 | C |
| 5 | 378 | 4.4 | 0 | C | 2.8 | 21 | 197 | -2.2 | -1.0 | 0.5 | 1 | C |
| 6 | 371 | 4.5 | 0 | C | 2.2 | 49 | 157 | -0.9 | -0.0 | 1.1 | 2 | C |
| 7 | 373 | 4.4 | 0 | C | 3.1 | -7 | 195 | -2.8 | -0.6 | -0.6 | 1 | C |
| 8 | | | | | | | | | | | | |
| 9 | 356 | 4.6 | 0 | C | 2.9 | 31 | 250 | -0.7 | -2.2 | 0.8 | 2 | C |
| 10 | 354 | 4.3 | 0 | C | 2.8 | 30 | 229 | -1.5 | -2.0 | 0.9 | 1 | C |
| 11 | 330 | 4.6 | 0 | C | 3.2 | 23 | 230 | -1.8 | -2.4 | 0.8 | 1 | C |
| 12 | 325 | 4.9 | 0 | C | 2.7 | 52 | 231 | -1.0 | -1.6 | 1.8 | 1 | C |
| 13 | 325 | 4.8 | 0 | C | 2.3 | 26 | 198 | -1.6 | -0.7 | 0.7 | 1 | C |
| 14 | 310 | 4.6 | 0 | C | 2.3 | 45 | 304 | 0.7 | -1.3 | 1.0 | 2 | C |
| 15 | 284 | 4.4 | 0 | C | 2.7 | 27 | 344 | 2.2 | -0.9 | 1.0 | 1 | C |
| 16 | 259 | 4.0 | 0 | C | 3.0 | 22 | 335 | 2.5 | -1.5 | 0.7 | 1 | C |
| 17 | 263 | 4.1 | 0 | C | 2.4 | 41 | 340 | 1.5 | -1.0 | 1.1 | 1 | C |
| 18 | 254 | 3.9 | 0 | C | 3.0 | 23 | 318 | 2.0 | -2.2 | 0.3 | 1 | C |
| 19 | 266 | 3.9 | 0 | C | 2.2 | 25 | 286 | 0.5 | -2.1 | -0.0 | 0 | C |
| 20 | 276 | 4.1 | 0 | C | 2.0 | 22 | 284 | 0.4 | -1.9 | -0.2 | 0 | C |
| 21 | 276 | 4.1 | 0 | C | 2.1 | 25 | 277 | 0.2 | -1.9 | -0.2 | 1 | C |
| 22 | 275 | 4.1 | 0 | C | 1.7 | 7 | 272 | 0.1 | -1.5 | -0.7 | 0 | C |
| 23 | 328 | 2.9 | 0 | C | 1.9 | 15 | 244 | -0.8 | -1.6 | -0.5 | 0 | C |
| 24 | 342 | 2.7 | 0 | C | 2.0 | 15 | 237 | -1.0 | -1.6 | -0.5 | 0 | C |

MAR. 2, 1980

62

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 321 | 3.8 | 0 | C | 1.8 | 21 | 288 | 0.5 | -1.5 | -0.3 | 1 | C |
| 2 | 316 | 3.6 | 0 | C | 2.6 | -35 | 260 | -0.3 | -0.9 | -2.2 | 1 | C |
| 3 | 334 | 3.1 | 0 | C | 2.4 | -48 | 292 | 0.6 | -0.4 | -2.2 | 1 | C |
| 4 | 306 | 4.4 | 0 | C | 2.0 | -40 | 268 | -0.1 | -0.8 | -1.8 | 1 | C |
| 5 | 289 | 5.1 | 0 | C | 1.9 | -48 | 256 | -0.3 | -0.6 | -1.7 | 0 | C |
| 6 | 298 | 4.4 | 0 | C | 2.1 | -56 | 297 | 0.5 | -0.3 | -1.9 | 1 | C |
| 7 | 302 | 4.0 | 0 | C | 2.2 | -26 | 315 | 1.3 | -1.0 | -1.3 | 1 | C |
| 8 | 299 | 4.0 | 0 | C | 2.2 | 23 | 334 | 1.7 | -1.0 | 0.6 | 1 | C |
| 9 | 291 | 4.2 | 0 | C | 2.1 | 9 | 293 | 0.6 | -1.5 | -0.1 | 1 | C |
| 10 | 280 | 4.7 | 0 | C | 1.9 | 39 | 331 | 1.2 | -0.9 | 1.0 | 1 | C |
| 11 | 279 | 5.2 | 0 | C | 2.0 | 30 | 282 | 0.3 | -1.6 | 0.6 | 1 | C |
| 12 | 298 | 4.6 | 0 | C | 2.0 | 30 | 257 | -0.4 | -1.7 | 0.6 | 1 | C |
| 13 | 302 | 4.9 | 0 | C | 2.2 | 16 | 258 | -0.4 | -2.0 | 0.2 | 1 | C |
| 14 | 311 | 5.8 | 21 | J | 2.7 | 20 | 268 | -0.1 | -2.5 | 0.3 | 1 | J |
| 15 | 315 | 6.5 | 19 | J | 2.9 | 38 | 274 | 0.1 | -2.4 | 1.0 | 1 | J |
| 16 | 315 | 7.0 | 19 | J | 3.0 | 15 | 265 | -0.2 | -2.7 | -0.2 | 1 | J |
| 17 | 311 | 7.2 | 16 | J | 3.1 | 6 | 264 | -0.3 | -2.8 | -0.8 | 1 | J |
| 18 | 310 | 7.5 | 15 | J | 3.0 | 18 | 270 | 0.0 | -2.9 | -0.3 | 1 | J |
| 19 | 306 | 7.5 | 0 | C | 3.2 | 33 | 271 | 0.0 | -3.0 | 0.3 | 1 | J |
| 20 | 311 | 9.9 | 16 | J | 3.5 | 46 | 267 | -0.1 | -3.0 | 0.9 | 2 | J |
| 21 | 309 | 10.4 | 15 | J | 3.9 | 38 | 283 | 0.6 | -3.3 | 0.4 | 2 | J |
| 22 | 310 | 11.7 | 18 | J | 3.5 | 10 | 265 | -0.3 | -3.1 | -1.3 | 1 | J |
| 23 | 310 | 12.1 | 18 | J | 3.2 | 6 | 261 | -0.4 | -2.4 | -1.3 | 2 | J |
| 24 | 306 | 12.5 | 13 | J | 3.0 | 7 | 270 | 0.0 | -2.5 | -1.3 | 1 | J |

MAR. 3, 1980

63

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 306 | 12.5 | 12 | J | 3.0 | -3 | 270 | 0.0 | -2.3 | -1.7 | 1 | J |
| 2 | 285 | 11.9 | 0 | C | 3.0 | 15 | 283 | 0.6 | -2.7 | -0.8 | 1 | C |
| 3 | 281 | 12.3 | 0 | C | 3.4 | 26 | 288 | 0.9 | -3.2 | -0.1 | 1 | C |
| 4 | 290 | 12.5 | 13 | J | 3.7 | 7 | 300 | 1.7 | -2.8 | -0.9 | 1 | J |
| 5 | 283 | 13.1 | 12 | J | 3.6 | 19 | 309 | 2.0 | -2.7 | 0.0 | 1 | J |
| 6 | 275 | 12.5 | 0 | C | 3.2 | 18 | 281 | 0.6 | -3.1 | -0.1 | 0 | C |
| 7 | 272 | 12.4 | 0 | C | 2.9 | 22 | 287 | 0.8 | -2.7 | 0.2 | 1 | C |
| 8 | 271 | 12.4 | 0 | C | 2.9 | 5 | 293 | 1.1 | -2.7 | -0.4 | 0 | C |
| 9 | 271 | 12.6 | 0 | C | 3.0 | 9 | 304 | 1.7 | -2.5 | -0.1 | 0 | C |
| 10 | 268 | 13.0 | 0 | C | 3.0 | -2 | 306 | 1.7 | -2.3 | -0.6 | 0 | C |
| 11 | 283 | 14.8 | 15 | J | 2.0 | 4 | 291 | 0.5 | -1.2 | -0.1 | 2 | J |
| 12 | 284 | 12.8 | 11 | J | 3.0 | -31 | 90 | -0.0 | 2.6 | -0.9 | 1 | J |
| 13 | 289 | 13.9 | 12 | J | 3.6 | -14 | 82 | 0.5 | 3.5 | -0.1 | 1 | J |
| 14 | 287 | 14.0 | 12 | J | 4.2 | -16 | 95 | -0.3 | 4.1 | -0.2 | 1 | J |
| 15 | 285 | 12.0 | 13 | J | 5.0 | 12 | 120 | -2.2 | 3.3 | 1.9 | 2 | J |
| 16 | 293 | 10.0 | 21 | J | 6.6 | -63 | 317 | 1.6 | -0.0 | -4.5 | 4 | J |
| 17 | 296 | 8.9 | 22 | J | 7.0 | -66 | 358 | 2.8 | 2.3 | -6.0 | 0 | J |
| 18 | 276 | 11.8 | 0 | C | 5.2 | -38 | 85 | 0.3 | 4.8 | -1.2 | 2 | C |
| 19 | 295 | 9.5 | 17 | J | 6.6 | -4 | 102 | -1.4 | 5.8 | 2.5 | 1 | J |
| 20 | 298 | 10.3 | 21 | J | 7.1 | -19 | 104 | -1.5 | 6.4 | 1.2 | 2 | J |
| 21 | 281 | 8.5 | 0 | C | 6.9 | -47 | 111 | -1.6 | 6.3 | -1.9 | 1 | C |
| 22 | 285 | 7.6 | 0 | C | 6.9 | -31 | 113 | -2.2 | 6.3 | 0.0 | 2 | C |
| 23 | 284 | 7.5 | 0 | C | 6.9 | -23 | 111 | -2.3 | 6.3 | 1.1 | 1 | C |
| 24 | 285 | 8.0 | 0 | C | 6.7 | -18 | 118 | -3.0 | 5.8 | 1.4 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 288 | 8.3 | 0 | C | 6.2 | -2 | 117 | -2.5 | 4.3 | 2.6 | 3 | C |
| 2 | 295 | 9.0 | 0 | C | 5.2 | 13 | 138 | -2.9 | 1.8 | 2.2 | 3 | C |
| 3 | 294 | 9.1 | 0 | C | 5.5 | 9 | 156 | -4.2 | 1.3 | 1.6 | 2 | C |
| 4 | 290 | 9.3 | 0 | C | 6.0 | 40 | 187 | -4.2 | -2.0 | 2.9 | 2 | C |
| 5 | 301 | 8.4 | 33 | J | 5.9 | 52 | 189 | -3.0 | -2.0 | 3.4 | 3 | J |
| 6 | 302 | 8.8 | 17 | J | 7.1 | 3 | 110 | -2.4 | 6.0 | 2.7 | 1 | J |
| 7 | 302 | 9.8 | 17 | J | 7.2 | 5 | 101 | -1.3 | 6.2 | 2.6 | 2 | J |
| 8 | 302 | 8.1 | 23 | J | 7.3 | -39 | 116 | -2.4 | 6.0 | -3.0 | 2 | J |
| 9 | 305 | 8.3 | 30 | J | 7.1 | -31 | 119 | -2.5 | 5.0 | -2.0 | 4 | J |
| 10 | 304 | 7.3 | 17 | J | 7.7 | -32 | 124 | -3.6 | 6.1 | -2.8 | 1 | J |
| 11 | 304 | 7.6 | 24 | J | 7.5 | -17 | 117 | -3.3 | 6.7 | -0.9 | 1 | J |
| 12 | 307 | 8.7 | 0 | C | 7.7 | -52 | 116 | -2.0 | 5.1 | -4.8 | 2 | C |
| 13 | 305 | 10.2 | 0 | C | 7.5 | -37 | 126 | -3.2 | 5.2 | -3.1 | 3 | C |
| 14 | 294 | 7.8 | 30 | J | 7.0 | 31 | 161 | -5.6 | 1.0 | 3.9 | 1 | J |
| 15 | 303 | 9.1 | 25 | J | 7.1 | 48 | 143 | -3.7 | 1.2 | 5.7 | 1 | J |
| 16 | 306 | 9.9 | 22 | J | 6.9 | 50 | 135 | -3.1 | 1.3 | 6.0 | 1 | J |
| 17 | 302 | 9.6 | 25 | J | 6.8 | 35 | 143 | -4.3 | 1.6 | 4.6 | 2 | J |
| 18 | 309 | 10.4 | 33 | J | 6.5 | -19 | 127 | -3.0 | 4.3 | 0.1 | 4 | J |
| 19 | 313 | 10.6 | 32 | J | 6.9 | 31 | 118 | -2.5 | 2.7 | 5.1 | 3 | J |
| 20 | 305 | 9.4 | 23 | J | 7.4 | -22 | 134 | -4.6 | 5.4 | 0.1 | 2 | J |
| 21 | 308 | 10.1 | 29 | J | 7.2 | -49 | 137 | -3.4 | 5.5 | -2.9 | 1 | J |
| 22 | 318 | 11.2 | 39 | J | 7.3 | -62 | 148 | -2.8 | 4.9 | -4.3 | 2 | J |
| 23 | 305 | 11.8 | 0 | C | 7.3 | -33 | 116 | -2.1 | 5.4 | -0.1 | 4 | C |
| 24 | 302 | 12.2 | 0 | C | 7.9 | -26 | 123 | -3.6 | 6.4 | 0.4 | 2 | C |

MAR. 5, 1980

65

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 301 | 12.0 | 0 | C | 8.2 | -57 | 134 | -2.9 | 6.0 | -3.7 | 3 | C |
| 2 | 311 | 11.9 | 0 | C | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 328 | 9.9 | 30 | J | 6.4 | -53 | 303 | 1.8 | -1.5 | -5.0 | 3 | J |
| 9 | 329 | 9.7 | 27 | J | 7.2 | -26 | 315 | 4.5 | -3.7 | -4.1 | 1 | J |
| 10 | 320 | 9.9 | 23 | J | 7.4 | -41 | 303 | 2.7 | -3.2 | -5.1 | 3 | J |
| 11 | 310 | 8.1 | 42 | J | 6.9 | -46 | 189 | -4.3 | 0.2 | -4.5 | 3 | J |
| 12 | 313 | 7.3 | 40 | J | 7.0 | -35 | 164 | -5.4 | 2.3 | -3.6 | 1 | J |
| 13 | 313 | 7.2 | 35 | J | 7.6 | -23 | 157 | -6.4 | 3.3 | -2.3 | 1 | J |
| 14 | 321 | 7.3 | 75 | J | 7.8 | -2 | 155 | -6.9 | 3.2 | 0.5 | 1 | J |
| 15 | 326 | 7.8 | 91 | J | 7.7 | -10 | 157 | -6.9 | 3.2 | -0.4 | 1 | J |
| 16 | 322 | 9.1 | 0 | C | 8.4 | 13 | 142 | -6.3 | 4.0 | 3.3 | 2 | C |
| 17 | 320 | 6.9 | 55 | J | 8.2 | 18 | 139 | -5.9 | 3.8 | 4.3 | 0 | J |
| 18 | 319 | 7.1 | 59 | J | 8.3 | 17 | 141 | -6.2 | 3.5 | 4.3 | 0 | J |
| 19 | 319 | 7.8 | 0 | C | 6.3 | 23 | 174 | -5.3 | -0.5 | 2.2 | 3 | C |
| 20 | 318 | 9.7 | 0 | C | 6.9 | 24 | 159 | -5.2 | 0.5 | 3.1 | 3 | C |
| 21 | 312 | 8.6 | 0 | C | 7.1 | 15 | 151 | -5.9 | 1.8 | 3.4 | 1 | C |
| 22 | 325 | 7.7 | 0 | C | 4.5 | 34 | 177 | -3.3 | -1.1 | 2.0 | 2 | C |
| 23 | 349 | 7.3 | 96 | J | 5.1 | 57 | 288 | 0.8 | -4.2 | 1.9 | 3 | J |
| 24 | 340 | 6.9 | 78 | J | 4.0 | -39 | 202 | -2.7 | 0.4 | -2.5 | 1 | J |

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MAR. 6, 1980

66

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 340 | 8.5 | 0 | C | 4.5 | 60 | 247 | -0.8 | -3.5 | 1.9 | 2 | C |
| 2 | 380 | 1..8 | 0 | C | 9.1 | 61 | 139 | -3.0 | -1.5 | 7.3 | 4 | C |
| 3 | 412 | 6.5 | 0 | C | 12.9 | 80 | 169 | -2.1 | -5.4 | 10.3 | 5 | C |
| 4 | 429 | 6.4 | 0 | C | 12.2 | 46 | 128 | -4.8 | 1.9 | 10.0 | 4 | C |
| 5 | 410 | 6.9 | 0 | C | 10.9 | -26 | 146 | -7.4 | 6.4 | -2.0 | 4 | C |
| 6 | 412 | 6.7 | 0 | C | 10.3 | 36 | 134 | -4.8 | 2.9 | 6.5 | 5 | C |
| 7 | 386 | 6.6 | 52 | J | 9.6 | -20 | 133 | -6.0 | 7.1 | -1.1 | 2 | J |
| 8 | 386 | 7.4 | 58 | J | 9.5 | 2 | 131 | -4.3 | 4.7 | 1.5 | 7 | J |
| 9 | 381 | 7.5 | 46 | J | 9.9 | 49 | 135 | -4.3 | 2.5 | 7.7 | 4 | J |
| 10 | 380 | 8.0 | 39 | J | 9.5 | -4 | 133 | -5.4 | 5.8 | 0.7 | 5 | J |
| 11 | 378 | 8.0 | 32 | J | 9.5 | -31 | 134 | -5.7 | 6.7 | -3.6 | 0 | J |
| 12 | 407 | 5.8 | 75 | J | 9.7 | 4 | 129 | -5.9 | 7.0 | 2.1 | 2 | J |
| 13 | 404 | 7.8 | 0 | C | 9.4 | -4 | 119 | -4.1 | 7.4 | 1.0 | 4 | C |
| 14 | 404 | 8.6 | 0 | C | 8.5 | -2 | 132 | -4.9 | 5.4 | 1.1 | 3 | C |
| 15 | 407 | 7.8 | 93 | J | 8.0 | 39 | 129 | -3.6 | 3.0 | 5.7 | 3 | J |
| 16 | 419 | 7.4 | 79 | J | 7.5 | 27 | 118 | -2.9 | 4.2 | 4.8 | 2 | J |
| 17 | 421 | 7.0 | 80 | J | 7.3 | 22 | 113 | -2.5 | 4.5 | 4.6 | 3 | J |
| 18 | 427 | 6.7 | 71 | J | 7.3 | 17 | 105 | -1.8 | 5.1 | 4.6 | 1 | J |
| 19 | 418 | 6.6 | 54 | J | 6.8 | 1 | 116 | -2.9 | 5.1 | 2.8 | 2 | J |
| 20 | 403 | 6.5 | 58 | J | 6.0 | 15 | 160 | -5.2 | 0.9 | 2.2 | 2 | J |
| 21 | 412 | 6.2 | 47 | J | 5.8 | 28 | 157 | -4.1 | 0.2 | 2.9 | 3 | J |
| 22 | 415 | 7.0 | 0 | C | 4.6 | 7 | 219 | -2.6 | -2.0 | -0.9 | 3 | C |
| 23 | 400 | 6.9 | 0 | C | 5.3 | -7 | 155 | -4.4 | 2.1 | 0.7 | 1 | C |
| 24 | 448 | 6.9 | 76 | J | 5.5 | -20 | 91 | -0.1 | 4.8 | 1.2 | 2 | J |

MAR. 7, 1980

67

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 6.5 | 0 | C | 5.8 | -22 | 89 | 0.1 | 5.1 | 1.0 | 2 | C |
| 2 | 424 | 6.5 | 0 | C | 5.8 | -34 | 65 | 1.9 | 5.0 | -0.4 | 2 | C |
| 3 | 415 | 6.5 | 0 | C | 5.5 | -54 | 99 | -0.4 | 4.3 | -2.0 | 2 | C |
| 4 | 405 | 6.4 | 0 | C | 5.2 | -23 | 141 | -3.2 | 3.1 | -0.4 | 2 | C |
| 5 | 410 | 6.3 | 0 | C | 5.0 | 6 | 177 | -3.0 | 0.0 | 0.3 | 3 | C |
| 6 | 405 | 6.4 | 0 | C | 4.7 | -4 | 197 | -3.0 | -0.8 | -0.5 | 3 | C |
| 7 | 403 | 6.4 | 0 | C | 5.0 | -43 | 153 | -3.0 | 2.4 | -2.5 | 2 | C |
| 8 | 399 | 6.5 | 0 | C | 5.4 | -23 | 185 | -4.0 | 0.1 | -1.8 | 3 | C |
| 9 | 401 | 6.2 | 0 | C | 5.1 | 49 | 158 | -2.4 | 0.3 | 3.2 | 3 | C |
| 10 | 413 | 5.8 | 62 | J | 5.1 | -37 | 157 | -2.6 | 1.6 | -1.9 | 4 | J |
| 11 | 414 | 5.8 | 66 | J | 4.5 | 23 | 131 | -2.3 | 2.3 | 2.0 | 2 | J |
| 12 | 421 | 5.3 | 44 | J | 5.1 | 12 | 84 | 0.5 | 4.3 | 1.9 | 2 | J |
| 13 | 411 | 5.5 | 44 | J | 5.4 | 42 | 73 | 0.8 | 2.1 | 3.1 | 4 | J |
| 14 | 409 | 5.1 | 54 | J | 5.0 | 34 | 142 | -2.0 | 1.1 | 2.0 | 4 | J |
| 15 | 418 | 5.6 | 55 | J | 5.4 | 59 | 94 | -0.1 | 1.0 | 3.9 | 4 | J |
| 16 | 399 | 5.9 | 0 | C | 5.3 | 8 | 123 | -2.5 | 3.5 | 2.0 | 2 | C |
| 17 | 396 | 6.2 | 0 | C | 4.9 | 6 | 89 | 0.1 | 2.9 | 1.5 | 4 | J |
| 18 | 424 | 5.5 | 66 | J | 5.3 | 56 | 61 | 1.4 | 0.5 | 5.1 | 1 | J |
| 19 | 428 | 5.9 | 73 | J | 4.6 | -37 | 85 | 0.2 | 3.3 | -0.5 | 3 | J |
| 20 | 424 | 5.8 | 62 | J | 4.6 | -54 | 95 | -0.2 | 3.5 | -1.5 | 3 | J |
| 21 | 418 | 5.2 | 56 | J | 4.6 | 5 | 142 | -2.3 | 1.4 | 1.2 | 3 | J |
| 22 | 434 | 5.4 | 66 | J | 4.7 | -21 | 57 | 1.3 | 2.1 | 0.3 | 4 | J |
| 23 | 453 | 5.8 | 74 | J | 4.8 | 45 | 51 | 1.9 | 0.2 | 3.8 | 2 | J |
| 24 | 422 | 5.7 | 67 | J | 4.8 | 69 | 77 | 0.2 | -0.6 | 2.6 | 4 | J |

MAR. 8, 1980

68

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 408 | 5.7 | 61 | J | 4.5 | 43 | 134 | -1.9 | 0.2 | 3.3 | 2 | J |
| 2 | 414 | 5.7 | 61 | J | 5.1 | -20 | 113 | -1.5 | 3.7 | 0.7 | 3 | J |
| 3 | 424 | 5.8 | 59 | J | 5.2 | -47 | 133 | -0.6 | 3.5 | -1.1 | 4 | J |
| 4 | 426 | 5.7 | 59 | J | 5.2 | -35 | 94 | -0.3 | 4.6 | -0.7 | 2 | J |
| 5 | 412 | 5.7 | 57 | J | 5.3 | -41 | 123 | -1.9 | 4.0 | -1.6 | 2 | J |
| 6 | 409 | 5.9 | 64 | J | 4.9 | -44 | 184 | -2.3 | 0.6 | -2.1 | 4 | J |
| 7 | 406 | 5.6 | 72 | J | 4.7 | -34 | 139 | -1.9 | 2.1 | -1.1 | 3 | J |
| 8 | 415 | 5.8 | 75 | J | 4.9 | -40 | 119 | -1.6 | 3.5 | -1.9 | 2 | J |
| 9 | 399 | 5.9 | 0 | C | 4.8 | 2 | 102 | -0.6 | 2.9 | 0.8 | 3 | C |
| 10 | 408 | 5.6 | 69 | J | 4.9 | -26 | 119 | -2.0 | 3.9 | -1.2 | 2 | J |
| 11 | 422 | 5.5 | 59 | J | 5.1 | -39 | 96 | -0.3 | 3.5 | -1.8 | 3 | J |
| 12 | 401 | 5.6 | 69 | J | 4.9 | 29 | 146 | -2.8 | 1.5 | 2.2 | 3 | J |
| 13 | 416 | 5.3 | 54 | J | 4.8 | 61 | 90 | -0.0 | 1.2 | 4.1 | 2 | J |
| 14 | 403 | 5.5 | 69 | J | 4.2 | 29 | 213 | -2.1 | -1.6 | 1.0 | 3 | J |
| 15 | 417 | 5.5 | 64 | J | 4.3 | 40 | 111 | -0.8 | 1.4 | 2.3 | 3 | J |
| 16 | 405 | 5.2 | 68 | J | 4.8 | 3 | 122 | -2.4 | 3.5 | 1.5 | 2 | J |
| 17 | 408 | 5.2 | 54 | J | 4.7 | -7 | 115 | -1.5 | 3.2 | 0.8 | 3 | J |
| 18 | 430 | 4.9 | 57 | J | 4.9 | -24 | 75 | 1.0 | 4.1 | 0.0 | 2 | J |
| 19 | 403 | 4.9 | 66 | J | 4.7 | -33 | 128 | -2.1 | 3.4 | -0.7 | 2 | J |
| 20 | 414 | 4.8 | 48 | J | 4.7 | -25 | 107 | -1.1 | 3.8 | 0.3 | 2 | J |
| 21 | 396 | 5.2 | 69 | J | 4.6 | 27 | 163 | -3.2 | -0.1 | 2.0 | 2 | J |
| 22 | 395 | 5.5 | 64 | J | 4.8 | 27 | 203 | -3.8 | -2.5 | 0.8 | 1 | J |
| 23 | 386 | 5.3 | 49 | J | 4.5 | 7 | 168 | -3.7 | 0.4 | 0.8 | 2 | J |
| 24 | 388 | 5.7 | 59 | J | 4.9 | -4 | 209 | -3.7 | -1.5 | -1.4 | 2 | J |

MAR. 9, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 400 | 5.2 | 63 | J | 4.4 | -16 | 171 | -2.1 | 0.6 | -0.3 | 4 | J |
| 2 | 377 | 5.1 | 25 | J | 4.6 | -17 | 165 | -4.2 | 1.6 | -0.5 | 1 | J |
| 3 | 337 | 4.7 | 33 | J | 4.5 | 12 | 156 | -3.1 | 0.8 | 1.3 | 3 | J |
| 4 | 381 | 5.3 | 49 | J | 4.3 | -8 | 168 | -3.1 | 0.8 | -0.1 | 3 | J |
| 5 | 391 | 5.1 | 41 | J | 4.6 | 15 | 128 | -1.7 | 1.6 | 1.5 | 4 | J |
| 6 | 419 | 4.9 | 36 | J | 4.7 | -45 | 62 | 1.3 | 3.2 | -1.7 | 3 | J |
| 7 | 413 | 5.1 | 34 | J | 4.2 | -74 | 51 | 0.7 | 1.9 | -3.2 | 2 | J |
| 8 | 421 | 5.1 | 48 | J | 4.4 | -57 | 42 | 1.4 | 2.0 | -2.4 | 3 | J |
| 9 | 400 | 5.5 | 53 | J | 3.9 | 23 | 128 | -1.5 | 1.6 | 1.4 | 3 | J |
| 10 | 393 | 4.7 | 53 | J | 4.0 | 55 | 130 | -1.3 | 0.9 | 3.1 | 2 | J |
| 11 | 372 | 5.0 | 0 | C | 4.4 | 54 | 167 | -2.3 | -0.1 | 3.3 | 1 | C |
| 12 | 358 | 5.3 | 0 | C | 5.0 | 25 | 138 | -3.2 | 2.4 | 2.5 | 2 | C |
| 13 | 359 | 5.3 | 0 | C | 5.0 | -36 | 125 | -2.2 | 3.6 | -2.0 | 1 | C |
| 14 | 371 | 4.9 | 0 | C | 4.8 | -41 | 110 | -0.9 | 3.0 | -1.7 | 3 | C |
| 15 | 372 | 5.1 | 0 | C | 4.7 | 12 | 124 | -1.5 | 1.9 | 1.2 | 3 | C |
| 16 | 370 | 5.1 | 0 | C | 4.8 | -22 | 124 | -1.5 | 2.5 | -0.3 | 4 | C |
| 17 | 363 | 5.0 | 0 | C | 4.7 | 8 | 123 | -1.8 | 2.3 | 1.4 | 3 | C |
| 18 | 363 | 5.0 | 0 | C | 4.9 | 41 | 164 | -3.1 | -0.4 | 2.9 | 2 | C |
| 19 | 360 | 5.1 | 0 | C | 4.9 | -6 | 128 | -2.4 | 2.9 | 1.1 | 3 | C |
| 20 | 358 | 5.3 | 0 | C | 5.2 | 18 | 149 | -3.3 | 1.1 | 2.1 | 3 | C |
| 21 | 358 | 5.3 | 0 | C | 5.1 | 30 | 163 | -4.0 | -0.3 | 2.7 | 1 | C |
| 22 | 365 | 5.1 | 0 | C | 5.4 | -39 | 120 | -1.9 | 4.4 | -0.7 | 2 | C |
| 23 | 355 | 5.4 | 0 | C | 5.4 | -6 | 119 | -2.5 | 3.9 | 2.0 | 1 | C |
| 24 | 355 | 5.5 | 0 | C | 5.4 | -2 | 123 | -2.6 | 3.4 | 2.2 | 2 | C |

MAR. 10, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 359 | 5.4 | 0 | C | 5.2 | 3 | 130 | -2.8 | 2.7 | 2.1 | 2 | C |
| 2 | 363 | 5.4 | 0 | C | 5.1 | 1 | 116 | -1.5 | 2.7 | 1.8 | 3 | C |
| 3 | 360 | 5.5 | 0 | C | 5.5 | -32 | 120 | -1.9 | 4.1 | -0.4 | 3 | C |
| 4 | 353 | 5.5 | 0 | C | 5.6 | 50 | 133 | -2.2 | 0.3 | 4.5 | 2 | C |
| 5 | 363 | 5.7 | 0 | C | 5.9 | 1 | 101 | -0.9 | 4.3 | 2.0 | 3 | C |
| 6 | 370 | 5.9 | 0 | C | 5.6 | -12 | 97 | -0.3 | 3.0 | 0.4 | 5 | C |
| 7 | 350 | 5.8 | 0 | C | 5.5 | 22 | 188 | -4.6 | -1.2 | 1.6 | 2 | C |
| 8 | 358 | 5.8 | 0 | C | 5.4 | 1 | 112 | -1.8 | 4.2 | 1.3 | 2 | C |
| 9 | 360 | 5.4 | 0 | C | 5.4 | 26 | 112 | -1.6 | 3.4 | 3.0 | 2 | C |
| 10 | 361 | 5.7 | 0 | C | 5.4 | -43 | 120 | -1.3 | 2.7 | -1.9 | 4 | C |
| 11 | 363 | 5.6 | 0 | C | 5.2 | -46 | 126 | -1.6 | 2.8 | -2.3 | 3 | C |
| 12 | 358 | 5.4 | 0 | C | 5.5 | -11 | 115 | -1.5 | 3.3 | -0.0 | 4 | C |
| 13 | 365 | 5.2 | 0 | C | 5.7 | -41 | 87 | 0.2 | 4.6 | -2.5 | 2 | C |
| 14 | 363 | 5.3 | 0 | C | 5.4 | -18 | 91 | -0.1 | 4.5 | -0.3 | 3 | C |
| 15 | 357 | 5.6 | 0 | C | 4.4 | 31 | 200 | -1.8 | -1.0 | 0.9 | 3 | C |
| 16 | 359 | 5.1 | 0 | C | 4.7 | 37 | 191 | -3.1 | -1.4 | 2.0 | 2 | C |
| 17 | 377 | 4.4 | 0 | C | 5.8 | 48 | 179 | -3.7 | -1.5 | 3.9 | 1 | C |
| 18 | 385 | 4.2 | 0 | C | 5.6 | 51 | 172 | -3.3 | -1.4 | 4.0 | 1 | C |
| 19 | 386 | 4.2 | 0 | C | 5.6 | 49 | 136 | -2.5 | 0.2 | 4.6 | 2 | C |
| 20 | 379 | 4.3 | 0 | C | 5.4 | 28 | 147 | -3.4 | 0.8 | 3.0 | 2 | C |
| 21 | 378 | 4.3 | 0 | C | 5.4 | 2 | 115 | -1.9 | 2.6 | 3.7 | 2 | C |
| 22 | 378 | 4.1 | 0 | C | 5.3 | -20 | 108 | -1.3 | 4.1 | 1.0 | 2 | C |
| 23 | 377 | 4.2 | 0 | C | 5.2 | -23 | 102 | -0.8 | 4.3 | 0.8 | 2 | C |
| 24 | 370 | 4.5 | 0 | C | 5.1 | -27 | 110 | -1.2 | 3.9 | 0.4 | 2 | C |

MAR. 11, 1980

71

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 371 | 4.6 | 0 | C | 5.2 | -52 | 104 | -0.6 | 3.6 | -1.2 | 3 | C |
| 2 | 370 | 4.9 | 0 | C | 5.2 | -24 | 101 | -0.7 | 3.9 | 0.5 | 2 | C |
| 3 | 359 | 5.2 | 0 | C | 4.7 | 25 | 134 | -2.8 | 1.6 | 3.0 | 1 | C |
| 4 | 360 | 5.0 | 0 | C | 5.0 | 24 | 144 | -3.1 | 1.2 | 2.6 | 2 | C |
| 5 | 355 | 5.2 | 0 | C | 4.8 | 21 | 115 | -1.5 | 2.3 | 2.5 | 3 | C |
| 6 | 351 | 5.1 | 0 | C | 4.6 | 24 | 123 | -1.9 | 2.2 | 2.5 | 2 | C |
| 7 | 359 | 4.7 | 0 | C | 5.1 | 14 | 88 | 0.2 | 3.8 | 2.4 | 2 | C |
| 8 | 352 | 4.6 | 0 | C | 5.3 | 20 | 104 | -1.1 | 3.8 | 2.8 | 1 | C |
| 9 | 353 | 5.0 | 0 | C | 5.2 | -2 | 106 | -1.0 | 3.5 | 0.7 | 3 | C |
| 10 | 358 | 5.6 | 0 | C | 5.1 | -36 | 257 | -0.5 | -1.8 | -2.0 | 4 | C |
| 11 | 349 | 5.7 | 0 | C | 5.0 | -15 | 182 | -2.7 | 0.0 | -0.7 | 4 | C |
| 12 | 352 | 5.7 | 0 | C | 4.2 | -50 | 117 | -0.8 | 2.1 | -1.8 | 3 | C |
| 13 | 351 | 5.6 | 0 | C | 4.2 | -25 | 139 | -0.7 | 0.7 | -0.3 | 4 | C |
| 14 | 345 | 5.1 | 0 | C | 4.7 | -10 | 116 | -1.9 | 3.8 | 0.3 | 2 | C |
| 15 | 353 | 4.9 | 0 | C | 4.4 | -15 | 92 | -0.1 | 2.8 | 0.1 | 3 | C |
| 16 | 359 | 5.1 | 0 | C | 3.8 | 7 | 110 | -0.9 | 2.3 | 1.2 | 2 | C |
| 17 | 351 | 5.0 | 0 | C | 4.3 | 17 | 125 | -2.1 | 2.4 | 2.3 | 1 | C |
| 18 | 354 | 5.1 | 0 | C | 4.2 | 19 | 99 | -0.5 | 2.6 | 2.5 | 2 | C |
| 19 | 345 | 5.2 | 0 | C | 4.0 | 35 | 163 | -2.8 | -0.2 | 2.2 | 1 | C |
| 20 | 344 | 4.9 | 0 | C | 4.0 | 41 | 173 | -2.9 | -1.0 | 2.3 | 1 | C |
| 21 | 343 | 4.3 | 0 | C | 4.2 | -13 | 94 | -0.3 | 3.6 | 1.3 | 2 | C |
| 22 | 359 | 3.6 | 0 | C | 4.9 | -37 | 65 | 1.6 | 4.5 | -0.4 | 1 | C |
| 23 | 368 | 3.0 | 0 | C | 4.8 | -6 | 123 | -2.3 | 3.1 | 1.6 | 2 | C |
| 24 | 374 | 2.8 | 0 | C | 5.3 | 2 | 136 | -3.7 | 2.9 | 2.2 | 1 | C |

MAR. 12, 1980

72

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 379 | 2.8 | 0 | C | 5.3 | -7 | 123 | -2.9 | 4.0 | 1.9 | 0 | C |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 379 | 2.6 | 0 | C | | | | | | | | |
| 8 | 379 | 2.6 | 0 | C | 5.1 | 0 | 182 | -5.1 | -0.2 | -0.1 | 1 | C |
| 9 | 380 | 2.6 | 0 | C | 5.3 | 12 | 180 | -5.2 | -0.3 | 1.1 | 0 | C |
| 10 | 382 | 2.6 | 0 | C | 5.6 | -3 | 197 | -5.1 | -1.5 | -0.6 | 1 | C |
| 11 | 375 | 3.0 | 0 | C | 5.5 | 3 | 193 | -5.3 | -1.3 | -0.0 | 1 | C |
| 12 | 384 | 3.0 | 0 | C | 5.5 | 6 | 178 | -5.5 | 0.1 | 0.6 | 0 | C |
| 13 | 379 | 3.1 | 0 | C | 5.5 | 4 | 181 | -5.5 | -0.1 | 0.3 | 0 | C |
| 14 | 369 | 3.3 | 0 | C | 5.6 | -1 | 176 | -5.6 | 0.4 | 0.0 | 0 | C |
| 15 | 362 | 3.4 | 0 | C | 5.6 | 4 | 174 | -5.6 | 0.4 | 0.6 | 0 | C |
| 16 | 357 | 3.7 | 0 | C | 5.4 | 4 | 165 | -5.2 | 1.2 | 0.8 | 0 | C |
| 17 | 357 | 3.7 | 0 | C | 6.0 | 4 | 154 | -5.1 | 2.1 | 1.3 | 1 | C |
| 18 | 363 | 5.0 | 0 | C | 7.3 | -7 | 131 | -4.7 | 5.2 | 1.5 | 1 | C |
| 19 | 365 | 5.6 | 0 | C | 7.2 | -18 | 128 | -4.0 | 5.5 | 0.5 | 2 | C |
| 20 | 368 | 5.3 | 0 | C | 7.4 | -8 | 123 | -3.9 | 5.7 | 2.2 | 2 | C |
| 21 | 364 | 6.6 | 0 | C | 7.6 | -9 | 112 | -2.8 | 6.2 | 2.7 | 2 | C |
| 22 | 350 | 6.6 | 0 | C | 8.0 | -5 | 120 | -3.8 | 6.0 | 3.2 | 2 | C |
| 23 | 348 | 7.3 | 0 | C | 8.0 | -8 | 105 | -2.0 | 6.8 | 3.3 | 1 | C |
| 24 | 355 | 8.2 | 0 | C | 8.0 | -2 | 109 | -2.6 | 6.2 | 4.0 | 1 | C |

MAR. 13, 1980

73

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 349 | 8.5 | 0 | C | 8.2 | -13 | 88 | 0.2 | 7.6 | 2.8 | 1 | C |
| 2 | 337 | 11.4 | 0 | C | 7.5 | -1 | 120 | -3.6 | 5.3 | 3.2 | 2 | C |
| 3 | 333 | 13.6 | 0 | C | 7.1 | 12 | 126 | -3.9 | 4.0 | 4.0 | 1 | C |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 312 | 9.9 | 0 | C | 6.7 | 8 | 299 | 3.0 | -5.4 | -0.7 | 4 | C |
| 8 | 312 | 9.9 | 0 | C | 9.1 | 4 | 293 | 3.5 | -8.3 | -1.4 | 1 | C |
| 9 | 336 | 2.4 | 0 | C | 8.9 | 1 | 320 | 6.8 | -5.6 | -1.0 | 1 | C |
| 10 | 337 | 2.4 | 0 | C | 8.8 | -3 | 318 | 6.4 | -5.6 | -1.6 | 1 | C |
| 11 | 323 | 2.3 | 0 | C | 8.6 | -10 | 312 | 5.6 | -5.8 | -2.7 | 1 | C |
| 12 | 329 | 2.5 | 0 | C | 8.1 | -3 | 306 | 4.7 | -6.1 | -1.9 | 2 | C |
| 13 | 375 | 5.0 | 0 | C | 6.1 | 10 | 314 | 3.7 | -3.9 | -0.1 | 3 | C |
| 14 | 384 | 4.8 | 0 | C | 6.2 | 26 | 334 | 4.9 | -3.0 | 1.8 | 1 | C |
| 15 | 391 | 4.6 | 0 | C | 6.1 | 17 | 344 | 5.2 | -1.9 | 1.0 | 2 | C |
| 16 | 391 | 4.4 | 0 | C | 5.8 | 22 | 334 | 4.4 | -2.7 | 1.0 | 2 | C |
| 17 | 387 | 4.2 | 0 | C | 5.7 | 23 | 321 | 3.9 | -3.7 | 0.6 | 1 | C |
| 18 | 386 | 4.0 | 0 | C | 5.4 | 2 | 294 | 2.1 | -4.1 | -2.0 | 2 | C |
| 19 | 407 | 3.9 | 0 | C | 5.4 | 4 | 280 | 0.9 | -4.5 | -2.3 | 1 | C |
| 20 | 403 | 3.6 | 0 | C | 5.9 | 31 | 312 | 3.1 | -4.5 | 0.5 | 2 | C |
| 21 | 395 | 3.8 | 0 | C | 5.4 | 11 | 296 | 2.2 | -4.2 | -1.7 | 2 | C |
| 22 | 387 | 4.1 | 0 | C | 5.3 | -9 | 291 | 1.7 | -3.1 | -3.0 | 2 | C |
| 23 | 384 | 3.8 | 0 | C | 4.9 | -42 | 306 | 2.0 | -0.5 | -4.1 | 1 | C |
| 24 | | | | | | | | | | | | |

# 03/14/80 – 03/21/80

MAR. 14, 1980 74

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 388 | 3.7 | 0 | C | 4.6 | -49 | 335 | 2.5 | 0.8 | -3.4 | 1 | C |
| 2 | 385 | 3.4 | 0 | C | 4.5 | -36 | 324 | 2.8 | -0.4 | -3.1 | 1 | C |
| 3 | 388 | 3.4 | 0 | C | 4.2 | -33 | 327 | 2.5 | -0.4 | -2.4 | 2 | C |
| 4 | 383 | 3.3 | 0 | C | 4.5 | -10 | 319 | 3.1 | -2.0 | -1.8 | 2 | C |
| 5 | 384 | 3.3 | 0 | C | 4.7 | -4 | 329 | 3.7 | -1.9 | -1.2 | 2 | C |
| 6 | 382 | 3.2 | 0 | C | 5.0 | 18 | 335 | 4.2 | -2.4 | 0.7 | 1 | C |
| 7 | 385 | 3.0 | 0 | C | 4.7 | 18 | 353 | 4.1 | -0.9 | 1.1 | 2 | C |
| 8 | 382 | 2.9 | 0 | C | 4.3 | 0 | 30 | 3.7 | 2.0 | 0.6 | 1 | C |
| 9 | 377 | 2.8 | 0 | C | 4.2 | -6 | 16 | 3.9 | 1.2 | -0.1 | 1 | C |
| 10 | 381 | 2.7 | 0 | C | 4.1 | -10 | 19 | 3.6 | 1.3 | -0.4 | 1 | C |
| 11 | 387 | 2.8 | 0 | C | 4.0 | -13 | 3 | 3.9 | 0.4 | -0.8 | 0 | C |
| 12 | 386 | 2.6 | 0 | C | 3.9 | -25 | 355 | 3.5 | 0.0 | -1.7 | 0 | C |
| 13 | 383 | 2.4 | 0 | C | 3.6 | -29 | 354 | 3.1 | 0.1 | -1.7 | 0 | C |
| 14 | 381 | 2.3 | 0 | C | 4.3 | -19 | 9 | 4.0 | 0.9 | -1.2 | 0 | C |
| 15 | 380 | 2.6 | 0 | C | 3.8 | -21 | 358 | 3.4 | 0.2 | -1.3 | 1 | C |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 370 | 3.6 | 0 | C | | | | | | | | |
| 19 | 370 | 3.6 | 0 | C | 3.8 | -17 | 336 | 3.3 | -0.8 | -1.6 | 0 | C |
| 20 | 358 | 4.4 | 0 | C | 3.5 | -15 | 357 | 3.3 | 0.3 | -0.8 | 1 | C |
| 21 | 344 | 5.2 | 0 | C | 3.7 | -13 | 347 | 3.5 | -0.2 | -1.1 | 0 | C |
| 22 | 333 | 5.6 | 0 | C | 3.8 | -5 | 358 | 3.7 | 0.1 | -0.3 | 1 | J |
| 23 | 328 | 6.3 | 0 | C | 4.0 | 3 | 358 | 3.9 | -0.2 | 0.1 | 1 | J |
| 24 | 328 | 6.6 | 0 | C | 3.3 | -18 | 343 | 2.9 | -0.2 | -1.3 | 1 | C |

MAR. 15, 1980 75

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 329 | 6.6 | 0 | C | 3.5 | -17 | 3 | 3.4 | 0.7 | -0.7 | 0 | C |
| 2 | 318 | 6.2 | 0 | C | 3.5 | -9 | 353 | 3.4 | -0.1 | -0.7 | 1 | C |
| 3 | 321 | 6.8 | 31 | J | 3.8 | 4 | 4 | 3.8 | 0.1 | 0.4 | 0 | J |
| 4 | 321 | 6.7 | 30 | J | 3.7 | 1 | 6 | 3.7 | 0.3 | 0.2 | 0 | J |
| 5 | 326 | 7.7 | 25 | J | 3.5 | -6 | 359 | 3.4 | 0.1 | -0.3 | 1 | J |
| 6 | 310 | 6.1 | 0 | C | 3.4 | -9 | 357 | 3.3 | 0.0 | -0.5 | 1 | J |
| 7 | 320 | 6.2 | 31 | J | 3.6 | -7 | 1 | 3.5 | 0.2 | -0.4 | 1 | J |
| 8 | 318 | 6.2 | 34 | J | 3.8 | -6 | 2 | 3.8 | 0.2 | -0.3 | 0 | J |
| 9 | 318 | 7.0 | 36 | J | 3.6 | -8 | 0 | 3.6 | 0.1 | -0.5 | 0 | J |
| 10 | 322 | 7.2 | 37 | J | 3.6 | -7 | 356 | 3.6 | -0.1 | -0.5 | 0 | J |
| 11 | 316 | 7.0 | 32 | J | 3.4 | -4 | 354 | 3.3 | -0.3 | -0.3 | 1 | J |
| 12 | 299 | 8.0 | 0 | C | 2.8 | 7 | 351 | 2.7 | -0.5 | 0.2 | 0 | C |
| 13 | 312 | 5.4 | 31 | J | 3.4 | -15 | 354 | 3.0 | -0.1 | -0.9 | 1 | J |
| 14 | 308 | 5.3 | 26 | J | 3.5 | -7 | 355 | 3.4 | -0.2 | -0.5 | 1 | J |
| 15 | 309 | 5.3 | 20 | J | 3.6 | 4 | 355 | 3.5 | -0.4 | 0.1 | 1 | J |
| 16 | 305 | 5.1 | 16 | J | 3.3 | 3 | 356 | 2.6 | -0.2 | 0.1 | 2 | J |
| 17 | 305 | 5.7 | 25 | J | 3.6 | 2 | 344 | 3.2 | -0.9 | -0.2 | 1 | J |
| 18 | 298 | 6.1 | 0 | C | 3.7 | 9 | 340 | 3.3 | -1.3 | -0.0 | 1 | J |
| 19 | 294 | 6.3 | 0 | C | 3.8 | 8 | 342 | 3.5 | -1.2 | -0.1 | 1 | J |
| 20 | 302 | 6.1 | 21 | J | 3.6 | -6 | 343 | 3.1 | -0.6 | -0.8 | 1 | J |
| 21 | 301 | 6.4 | 22 | J | 3.8 | 2 | 335 | 3.3 | -1.3 | -0.7 | 1 | J |
| 22 | 301 | 6.2 | 22 | J | 3.1 | -8 | 340 | 2.7 | -0.6 | -0.9 | 1 | J |
| 23 | 298 | 8.5 | 29 | J | 3.4 | -16 | 349 | 3.0 | 0.0 | -1.1 | 1 | J |
| 24 | 296 | 8.5 | 31 | J | 3.1 | -5 | 350 | 2.8 | -0.3 | -0.5 | 1 | J |

MAR. 16, 1980 76

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 288 | 8.9 | 31 | J | 2.8 | -21 | 301 | 1.1 | -1.0 | -1.6 | 2 | J |
| 2 | 303 | 12.1 | 15 | J | 2.1 | -18 | 328 | 1.5 | -0.5 | -1.0 | 1 | J |
| 3 | 290 | 14.2 | 15 | J | 2.0 | 8 | 127 | -1.0 | 1.0 | 0.8 | 1 | J |
| 4 | 294 | 14.4 | 15 | J | 1.9 | 24 | 177 | -0.4 | -0.1 | 0.2 | 2 | J |
| 5 | 296 | 15.1 | 20 | J | 1.2 | 47 | 185 | -0.7 | -0.4 | 0.6 | 1 | J |
| 6 | 296 | 16.3 | 16 | J | 1.9 | 21 | 14 | 1.5 | 0.1 | 0.7 | 1 | J |
| 7 | 297 | 16.6 | 16 | J | 1.4 | 24 | 28 | 0.8 | 0.3 | 0.5 | 1 | J |
| 8 | 294 | 16.2 | 17 | J | 2.9 | 17 | 118 | -1.2 | 1.9 | 1.3 | 2 | J |
| 9 | 282 | 11.5 | 17 | J | 4.9 | -37 | 177 | -3.7 | 0.9 | -2.7 | 1 | J |
| 10 | 296 | 1[illegible].0 | 18 | J | 5.5 | -29 | 173 | -2.6 | 0.6 | -1.3 | 5 | J |
| 11 | 273 | 11.8 | 0 | C | 5.9 | -42 | 165 | -2.6 | 1.2 | -2.3 | 4 | C |
| 12 | 304 | 12.6 | 18 | J | 5.2 | -5 | 136 | -3.3 | 3.2 | 0.3 | 2 | J |
| 13 | 310 | 13.0 | 18 | J | 5.8 | 40 | 128 | -2.6 | 2.5 | 4.3 | 2 | J |
| 14 | 322 | 8.0 | 0 | C | 7.4 | 60 | 127 | -2.2 | 1.2 | 6.7 | 1 | C |
| 15 | 318 | 8.1 | 0 | C | 7.2 | 40 | 116 | -2.3 | 3.2 | 5.5 | 2 | C |
| 16 | 322 | 8.8 | 0 | C | 7.0 | -2 | 162 | -5.6 | 1.8 | 0.4 | 4 | C |
| 17 | 323 | 8.8 | 0 | C | 6.9 | 8 | 140 | -4.2 | 2.9 | 2.0 | 4 | C |
| 18 | 332 | 8.9 | 0 | C | 7.0 | 0 | 134 | -4.3 | 4.0 | 2.0 | 3 | C |
| 19 | 339 | 9.7 | 48 | J | 6.3 | 29 | 132 | -3.6 | 2.1 | 4.5 | 2 | J |
| 20 | 343 | 10.1 | 64 | J | 6.4 | 53 | 147 | -2.8 | -0.7 | 4.7 | 3 | J |
| 21 | 356 | 10.6 | 61 | J | 6.4 | 37 | 132 | -2.1 | 0.7 | 3.3 | 5 | J |
| 22 | 353 | 9.3 | 50 | J | 6.4 | -60 | 136 | -2.2 | 4.6 | -3.1 | 2 | J |
| 23 | 370 | 6.8 | 56 | J | 6.9 | 4 | 134 | -4.5 | 3.6 | 3.0 | 2 | J |
| 24 | 367 | 6.8 | 65 | J | 6.8 | 4 | 140 | -5.0 | 3.2 | 2.8 | 2 | J |

MAR. 17, 1980 77

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 6.5 | 38 | J | 7.1 | -2 | 136 | -4.8 | 4.0 | 2.4 | 2 | J |
| 2 | 371 | 8.4 | 72 | J | 5.6 | -14 | 129 | -3.2 | 4.1 | 1.0 | 2 | J |
| 3 | 358 | 12.2 | 0 | C | 4.7 | -24 | 129 | -2.2 | 3.1 | 0.0 | 2 | C |
| 4 | 352 | 12.7 | 0 | C | 4.2 | -30 | 155 | -2.4 | 1.7 | -0.9 | 3 | C |
| 5 | 345 | 11.4 | 122 | J | 5.4 | -20 | 174 | -4.7 | 1.1 | -1.4 | 2 | J |
| 6 | 347 | 11.5 | 128 | J | 4.6 | 1 | 153 | -2.9 | 1.4 | 0.6 | 3 | J |
| 7 | 334 | 9.5 | 57 | J | 5.3 | 15 | 138 | -3.6 | 2.7 | 2.2 | 1 | J |
| 8 | 328 | 9.7 | 62 | J | 5.7 | 7 | 140 | -4.3 | 3.2 | 1.6 | 1 | J |
| 9 | 331 | 11.4 | 0 | C | 4.5 | -8 | 148 | -2.7 | 1.7 | -0.0 | 3 | C |
| 10 | 335 | 8.6 | 47 | J | 5.1 | -31 | 181 | -4.4 | 0.5 | -2.6 | 0 | J |
| 11 | 346 | 11.2 | 95 | J | 5.1 | -42 | 159 | -3.4 | 2.0 | -2.9 | 1 | J |
| 12 | 355 | 9.5 | 55 | J | 4.7 | 71 | 115 | -0.6 | 0.4 | 4.5 | 1 | J |
| 13 | 341 | 9.4 | 62 | J | 4.7 | 43 | 166 | -3.2 | 0.1 | 3.2 | 1 | J |
| 14 | 347 | 9.1 | 52 | J | 5.1 | 43 | 138 | -2.4 | 1.3 | 3.4 | 2 | J |
| 15 | 355 | 8.3 | 57 | J | 4.8 | -19 | 106 | -0.9 | 3.3 | -0.2 | 3 | J |
| 16 | 357 | 8.7 | 49 | J | 5.1 | 36 | 58 | 2.1 | 2.2 | 3.8 | 1 | J |
| 17 | 350 | 8.0 | 42 | J | 4.9 | 1 | 98 | -0.6 | 3.8 | 1.7 | 2 | J |
| 18 | 336 | 7.7 | 36 | J | 5.2 | -13 | 144 | -4.0 | 3.1 | 0.2 | 1 | J |
| 19 | 332 | 7.5 | 39 | J | 5.3 | -14 | 149 | -4.1 | 2.7 | 0.1 | 2 | J |
| 20 | 326 | 7.6 | 40 | J | 5.5 | -20 | 148 | -4.1 | 3.1 | -0.2 | 2 | J |
| 21 | 326 | 7.4 | 32 | J | 5.4 | -23 | 133 | -3.0 | 3.7 | 0.2 | 3 | J |
| 22 | 312 | 6.7 | 39 | J | 5.4 | 8 | 152 | -4.5 | 1.6 | 1.9 | 2 | J |
| 23 | 314 | 6.6 | 37 | J | 5.2 | -28 | 162 | -4.3 | 2.5 | -1.2 | 1 | J |
| 24 | 317 | 6.3 | 34 | J | 5.0 | -20 | 138 | -3.4 | 3.4 | 0.4 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 331 | 7.6 | 26 | J | 4.8 | -43 | 116 | -1.3 | 3.6 | -0.8 | 3 | J |
| 2 | 329 | 8.9 | 24 | J | 4.2 | -14 | 96 | -0.4 | 3.6 | 1.2 | 2 | J |
| 3 | 330 | 9.4 | 23 | J | 4.2 | -14 | 83 | 0.5 | 3.7 | 1.1 | 1 | J |
| 4 | 333 | 9.2 | 21 | J | 4.7 | -9 | 88 | 0.2 | 4.3 | 1.4 | 1 | J |
| 5 | 324 | 9.0 | 24 | J | 4.6 | -47 | 96 | -0.3 | 4.1 | -1.7 | 1 | J |
| 6 | 317 | 9.9 | 32 | J | 3.9 | 36 | 143 | -2.5 | 0.9 | 2.8 | 1 | J |
| 7 | 315 | 9.7 | 33 | J | 4.1 | 40 | 152 | -2.6 | 0.5 | 2.8 | 1 | J |
| 8 | 314 | 9.8 | 28 | J | 3.5 | -10 | 122 | -1.7 | 2.7 | 0.2 | 1 | J |
| 9 | 312 | 8.7 | 22 | J | 3.9 | -23 | 140 | -2.7 | 2.5 | -0.9 | 1 | J |
| 10 | 299 | 10.3 | 0 | C | 3.3 | 59 | 214 | -0.8 | -0.9 | 1.5 | 2 | C |
| 11 | 299 | 10.1 | 0 | C | 4.4 | 57 | 120 | -1.0 | 1.0 | 3.3 | 2 | C |
| 12 | 313 | 9.8 | 21 | J | 5.2 | 47 | 104 | -0.8 | 2.4 | 4.1 | 2 | J |
| 13 | 319 | 9.7 | 23 | J | 5.6 | 55 | 71 | 1.0 | 1.9 | 5.2 | 1 | J |
| 14 | 305 | 9.9 | 28 | J | 4.3 | -7 | 140 | -2.4 | 2.1 | 0.1 | 3 | J |
| 15 | 306 | 10.0 | 24 | J | 4.8 | 36 | 148 | -3.1 | 1.1 | 3.1 | 2 | J |
| 16 | 302 | 9.6 | 33 | J | 4.8 | -10 | 156 | -4.0 | 2.0 | -0.1 | 2 | J |
| 17 | 299 | 9.8 | 41 | J | 4.3 | 1 | 148 | -3.6 | 2.0 | 0.9 | 1 | J |
| 18 | 287 | 11.2 | 0 | C | | | | | | | | |
| 19 | 309 | 10.0 | 30 | J | 5.6 | -10 | 118 | -2.5 | 4.5 | 1.4 | 2 | J |
| 20 | 302 | 10.3 | 28 | J | 5.4 | 37 | 137 | -3.1 | 0.8 | 4.2 | 1 | J |
| 21 | 307 | 10.8 | 22 | J | 5.3 | -5 | 114 | -1.9 | 3.9 | 2.0 | 2 | J |
| 22 | 311 | 10.3 | 20 | J | 5.2 | -42 | 109 | -1.2 | 4.9 | -0.8 | 1 | J |
| 23 | 303 | 10.2 | 22 | J | 5.1 | -2 | 130 | -3.0 | 3.0 | 1.9 | 2 | J |
| 24 | 303 | 9.8 | 19 | J | 5.3 | 7 | 122 | -2.7 | 3.2 | 3.0 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 304 | 10.5 | 21 | J | 5.3 | -4 | 127 | -3.0 | 3.5 | 1.9 | 2 | J |
| 2 | 302 | 10.1 | 24 | J | 5.2 | -12 | 133 | -3.3 | 3.5 | 1.0 | 2 | J |
| 3 | 308 | 9.9 | 15 | J | 5.7 | -8 | 113 | -2.1 | 4.7 | 1.8 | 1 | J |
| 4 | 312 | 10.0 | 15 | J | 5.6 | -15 | 102 | -1.0 | 4.8 | 1.0 | 3 | J |
| 5 | 306 | 11.0 | 14 | J | 4.9 | 13 | 128 | -2.6 | 2.6 | 2.2 | 2 | J |
| 6 | 305 | 9.6 | 13 | J | 4.9 | -6 | 144 | -3.9 | 2.8 | 0.5 | 1 | J |
| 7 | 353 | 21.3 | 51 | J | 9.1 | -18 | 116 | -3.5 | 7.7 | -0.2 | 4 | J |
| 8 | 383 | 38.3 | 62 | J | 8.7 | -84 | 37 | 0.2 | 0.9 | -2.6 | 9 | J |
| 9 | 386 | 44.6 | 66 | J | 7.7 | 72 | 147 | -1.7 | -0.4 | 6.5 | 4 | J |
| 10 | 387 | 42.4 | 0 | C | 9.0 | 33 | 87 | 0.3 | 4.1 | 4.2 | 6 | C |
| 11 | 390 | 38.5 | 83 | J | 6.6 | -30 | 82 | 0.6 | 5.0 | -1.6 | 4 | J |
| 12 | 373 | 15.5 | 78 | J | 10.3 | -19 | 78 | 1.9 | 9.6 | -1.2 | 4 | J |
| 13 | 363 | 17.6 | 90 | J | 11.9 | 16 | 113 | -4.4 | 9.3 | 5.4 | 3 | J |
| 14 | 370 | 20.0 | 81 | J | 10.4 | 15 | 103 | -1.9 | 7.5 | 4.4 | 5 | J |
| 15 | 379 | 24.0 | 0 | C | 9.3 | 23 | 130 | -1.0 | 1.0 | 1.0 | 9 | J |
| 16 | 381 | 29.8 | 43 | J | 7.4 | 84 | 211 | -0.5 | -2.4 | 5.6 | 4 | J |
| 17 | 375 | 15.0 | 24 | J | 11.5 | 44 | 86 | 0.6 | 4.5 | 10.4 | 2 | J |
| 18 | 365 | 12.8 | 15 | J | 12.1 | 67 | 98 | -0.7 | -0.6 | 12.1 | 1 | J |
| 19 | 364 | 6.8 | 17 | J | 12.9 | 79 | 141 | -1.9 | -4.7 | 11.9 | 1 | J |
| 20 | 370 | 8.3 | 19 | J | 12.7 | 80 | 140 | -1.7 | -5.1 | 11.3 | 2 | J |
| 21 | 367 | 14.0 | 15 | J | 12.8 | 72 | 126 | -2.3 | -3.9 | 11.9 | 1 | J |
| 22 | 366 | 10.4 | 15 | J | 13.8 | 76 | 127 | -2.0 | -5.3 | 12.6 | 1 | J |
| 23 | 364 | 10.3 | 15 | J | 13.7 | 76 | 127 | -2.0 | -5.4 | 12.3 | 1 | J |
| 24 | 348 | 6.4 | 0 | C | 14.9 | 62 | 110 | -2.3 | -2.1 | 14.5 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 343 | 5.8 | 0 | C | 15.3 | 57 | 110 | -2.8 | -0.7 | 14.9 | 1 | C |
| 2 | 333 | 5.4 | 0 | C | 15.5 | 48 | 105 | -2.7 | 2.4 | 15.0 | 1 | C |
| 3 | 326 | 5.2 | 0 | C | 15.6 | 44 | 103 | -2.5 | 4.2 | 14.8 | 0 | C |
| 4 | 348 | 5.4 | 26 | J | 15.3 | 30 | 100 | -2.3 | 8.1 | 12.7 | 1 | J |
| 5 | 339 | 5.0 | 23 | J | 15.4 | 30 | 101 | -2.6 | 8.8 | 12.4 | 1 | J |
| 6 | 345 | 3.3 | 0 | C | 16.3 | 32 | 102 | -2.9 | 9.4 | 13.0 | 1 | C |
| 7 | 337 | 3.5 | 0 | C | 16.2 | 18 | 97 | -1.7 | 12.6 | 9.4 | 3 | C |
| 8 | 337 | 3.5 | 0 | C | 15.8 | 15 | 93 | -0.8 | 13.5 | 8.0 | 2 | C |
| 9 | 341 | 3.0 | 0 | C | 15.9 | 14 | 94 | -1.1 | 13.9 | 7.3 | 2 | C |
| 10 | 354 | 3.1 | 0 | C | 15.8 | 20 | 90 | 0.0 | 12.9 | 8.1 | 4 | C |
| 11 | 346 | 2.6 | 0 | C | 15.7 | 3 | 90 | 0.1 | 15.1 | 4.1 | 0 | C |
| 12 | 331 | 3.7 | 0 | C | 15.3 | 3 | 92 | -0.5 | 14.7 | 4.1 | 1 | C |
| 13 | 330 | 3.8 | 0 | C | 15.2 | 5 | 91 | -0.2 | 14.4 | 4.7 | 0 | C |
| 14 | 319 | 4.5 | 0 | C | 15.0 | 4 | 89 | 0.2 | 14.0 | 4.9 | 2 | C |
| 15 | 314 | 4.9 | 0 | C | 14.6 | 3 | 90 | -0.1 | 13.7 | 5.1 | 0 | C |
| 16 | 318 | 5.1 | 0 | C | 14.0 | 0 | 90 | -0.0 | 12.8 | 4.6 | 3 | J |
| 17 | 318 | 5.1 | 0 | C | 14.3 | -3 | 87 | 0.7 | 13.5 | 4.8 | 0 | C |
| 18 | 319 | 8.8 | 0 | C | | | | | | | | |
| 19 | 335 | 6.9 | 12 | J | 13.2 | -24 | 74 | 3.3 | 12.7 | 0.8 | 2 | J |
| 20 | 315 | 9.7 | 10 | J | 12.7 | -16 | 81 | 1.9 | 12.1 | 3.2 | 1 | J |
| 21 | 315 | 12.1 | 12 | J | 12.3 | -11 | 82 | 1.7 | 11.2 | 4.5 | 1 | J |
| 22 | | | | | | | | | | | | |
| 23 | 302 | 8.6 | 0 | C | 13.6 | -25 | 76 | 3.0 | 13.1 | 2.1 | 1 | C |
| 24 | 306 | 8.8 | 17 | J | 12.9 | -35 | 71 | 3.4 | 12.4 | -0.4 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 309 | 11.8 | 15 | J | 12.4 | -50 | 69 | 2.8 | 11.4 | -3.7 | 1 | J |
| 2 | 309 | 18.9 | 13 | J | 11.9 | -57 | 82 | 0.9 | 10.5 | -4.9 | 2 | J |
| 3 | 305 | 15.7 | 10 | J | 12.7 | -61 | 93 | -0.3 | 10.9 | -6.6 | 1 | J |
| 4 | 301 | 17.7 | 8 | J | 12.0 | -67 | 75 | 1.2 | 9.0 | -7.7 | 1 | J |
| 5 | 299 | 12.3 | 0 | C | 12.2 | -65 | 66 | 2.1 | 8.8 | -8.2 | 0 | C |
| 6 | 312 | 11.6 | 0 | C | 11.9 | -68 | 59 | 2.3 | 7.5 | -8.8 | 1 | C |
| 7 | 313 | 10.5 | 0 | C | 11.6 | -69 | 42 | 3.1 | 6.1 | -9.4 | 1 | C |
| 8 | | | | | | | | | | | | |
| 9 | 295 | 11.0 | 0 | C | 10.7 | -61 | 353 | 5.2 | 1.6 | -9.2 | 1 | C |
| 10 | 280 | 9.8 | 0 | C | 10.3 | -53 | 346 | 6.0 | 0.3 | -8.4 | 0 | C |
| 11 | 278 | 10.3 | 0 | C | 10.4 | -53 | 343 | 5.9 | -0.1 | -8.5 | 1 | C |
| 12 | 279 | 10.6 | 0 | C | 10.2 | -47 | 331 | 6.1 | -1.8 | -8.0 | 1 | C |
| 13 | 289 | 9.9 | 0 | C | 9.9 | -48 | 324 | 5.2 | -2.1 | -8.0 | 2 | C |
| 14 | 291 | 13.4 | 0 | C | 10.0 | -68 | 344 | 3.3 | 1.2 | -8.4 | 4 | C |
| 15 | 291 | 19.6 | 0 | C | 8.1 | -72 | 3 | 2.4 | 2.3 | -7.3 | 1 | C |
| 16 | 281 | 16.3 | 0 | C | 8.8 | -69 | 344 | 3.0 | 2.0 | -8.0 | 1 | C |
| 17 | 280 | 16.3 | 0 | C | 8.5 | -68 | 339 | 2.9 | 2.0 | -7.7 | 1 | C |
| 18 | 278 | 14.0 | 0 | C | 8.9 | -69 | 356 | 3.1 | 3.4 | -7.6 | 1 | C |
| 19 | 296 | 12.2 | 0 | C | 9.6 | -77 | 21 | 2.1 | 5.2 | -7.8 | 1 | C |
| 20 | 307 | 13.1 | 0 | C | 9.6 | -75 | 90 | 0.0 | 6.8 | -6.6 | 1 | C |
| 21 | | | | | | | | | | | | |
| 22 | 294 | 13.8 | 0 | C | 7.6 | -69 | 35 | 2.2 | 5.2 | -5.0 | 1 | C |
| 23 | 291 | 12.1 | 0 | C | 7.7 | -71 | 57 | 1.3 | 5.8 | -4.7 | 1 | C |
| 24 | 308 | 12.8 | 0 | C | 6.9 | -53 | 108 | -1.2 | 6.1 | -2.2 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 314 | 12.0 | 0 | C | 7.0 | -61 | 91 | -0.1 | 6.0 | -3.0 | 2 | C |
| 2 | 324 | 13.9 | 0 | C | 8.6 | -48 | 98 | -0.8 | 8.2 | -2.4 | 1 | C |
| 3 | 332 | 15.6 | 0 | C | 9.6 | -37 | 98 | -1.1 | 9.2 | -1.2 | 2 | C |
| 4 | 333 | 14.8 | 0 | C | 9.9 | -45 | 77 | 1.5 | 9.3 | -3.0 | 1 | C |
| 5 | 338 | 14.6 | 0 | C | 10.6 | -67 | 101 | -0.7 | 7.3 | -6.9 | 3 | C |
| 6 | 316 | 15.6 | 0 | C | 9.3 | -45 | 297 | 2.7 | -2.8 | -7.4 | 4 | C |
| 7 | 311 | 15.5 | 0 | C | 10.7 | 10 | 305 | 5.8 | -8.4 | -1.0 | 3 | C |
| 8 | 322 | 17.3 | 0 | C | 10.3 | 32 | 301 | 4.3 | -8.2 | 3.0 | 3 | C |
| 9 | 332 | 18.1 | 0 | C | 9.9 | 28 | 300 | 3.9 | -7.4 | 2.4 | 4 | C |
| 10 | 352 | 24.2 | 0 | C | 6.5 | -19 | 110 | -1.5 | 4.3 | -0.6 | 4 | C |
| 11 | 356 | 27.9 | 0 | C | 5.9 | -64 | 159 | -2.1 | 1.7 | -4.4 | 3 | C |
| 12 | 343 | 18.9 | 0 | C | 7.9 | -77 | 142 | -1.3 | 2.6 | -7.1 | 0 | C |
| 13 | 343 | 18.9 | 0 | C | 7.0 | -81 | 259 | -0.2 | 0.5 | -6.1 | 4 | C |
| 14 | 347 | 24.4 | 0 | C | 3.9 | -56 | 271 | 0.0 | -0.9 | -2.4 | 3 | C |
| 15 | 346 | 21.9 | 0 | C | 5.9 | -75 | 201 | -1.3 | 1.0 | -5.0 | 3 | C |
| 16 | 350 | 19.9 | 0 | C | 4.2 | -55 | 139 | -1.8 | 2.5 | -2.6 | 2 | C |
| 17 | 359 | 17.9 | 0 | C | 2.4 | -26 | 189 | -2.1 | 0.1 | -1.0 | 1 | C |
| 18 | 364 | 13.6 | 0 | C | 2.4 | -5 | 170 | -2.2 | 0.4 | -0.0 | 1 | C |
| 19 | 343 | [illegible] | 0 | C | 3.6 | 5 | 356 | 3.5 | -0.4 | 0.1 | 1 | C |
| 20 | 340 | 9.3 | 0 | C | 4.0 | 9 | 350 | 3.9 | -1.0 | 0.2 | 0 | C |
| 21 | 345 | 9.9 | 0 | C | 3.1 | 7 | 7 | 2.0 | 0.1 | 0.3 | 2 | C |
| 22 | 361 | 11.9 | 0 | C | 2.8 | -41 | 140 | -1.5 | 2.0 | -0.7 | 1 | C |
| 23 | 340 | 10.8 | 0 | C | 4.2 | -56 | 358 | 2.2 | 1.8 | -2.7 | 2 | C |
| 24 | 329 | 10.3 | 0 | C | 4.6 | -28 | 344 | 3.8 | 0.3 | -2.3 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 256 | 7.8 | 0 | C | 4.9 | -5 | 149 | -4.1 | 2.3 | 1.0 | 1 | C |
| 2 | 263 | 9.4 | 0 | C | 6.4 | -17 | 122 | -3.1 | 5.2 | 1.1 | 2 | C |
| 3 | 270 | 10.1 | 0 | C | 6.6 | -27 | 111 | -2.0 | 6.0 | 0.1 | 1 | C |
| 4 | 268 | 9.9 | 0 | C | 7.3 | -3 | 128 | -4.1 | 4.9 | 2.1 | 2 | C |
| 5 | 278 | 10.6 | 0 | C | 6.6 | -25 | 108 | -1.5 | 5.1 | -0.2 | 4 | C |
| 6 | 279 | 10.9 | 0 | C | 6.3 | -44 | 90 | 0.0 | 5.5 | -2.3 | 2 | C |
| 7 | 271 | 9.6 | 0 | C | 6.5 | -2 | 108 | -1.9 | 5.6 | 1.7 | 2 | C |
| 8 | 270 | 8.7 | 0 | C | 6.5 | -29 | 100 | -1.0 | 5.8 | -1.4 | 2 | C |
| 9 | 280 | 8.6 | 0 | C | 6.4 | 0 | 131 | -3.7 | 4.1 | 1.0 | 3 | C |
| 10 | 287 | 9.9 | 0 | C | 6.0 | -32 | 113 | -1.9 | 5.1 | -2.0 | 1 | C |
| 11 | 283 | 9.9 | 0 | C | 5.2 | -12 | 132 | -2.2 | 2.4 | -0.2 | 4 | C |
| 12 | 279 | 9.5 | 0 | C | 5.3 | 12 | 131 | -3.2 | 3.4 | 1.8 | 2 | C |
| 13 | 283 | 10.2 | 0 | C | 3.9 | 13 | 142 | -2.6 | 1.8 | 1.2 | 2 | C |
| 14 | 284 | 9.9 | 0 | C | 4.3 | -47 | 140 | -2.1 | 2.5 | -2.5 | 1 | C |
| 15 | 282 | 9.4 | 0 | C | 5.0 | -58 | 113 | -0.9 | 3.1 | -2.9 | 2 | C |
| 16 | 283 | 9.3 | 0 | C | 5.4 | 45 | 145 | -3.1 | 0.7 | 4.3 | 1 | C |
| 17 | 284 | 9.4 | 0 | C | 5.6 | 54 | 158 | -2.9 | -0.6 | 4.5 | 1 | C |
| 18 | 285 | 9.9 | 0 | C | 5.4 | 34 | 152 | -3.7 | 0.6 | 3.4 | 2 | C |
| 19 | 286 | 12.0 | 0 | C | 4.4 | 21 | 114 | -1.0 | 1.5 | 1.9 | 3 | C |
| 20 | 287 | 14.3 | 0 | C | 3.3 | -10 | 105 | -0.5 | 1.8 | 0.7 | 2 | C |
| 21 | 274 | 14.4 | 0 | C | 4.9 | -20 | 136 | -3.2 | 3.5 | 0.3 | 1 | C |
| 22 | 278 | 13.7 | 0 | C | 6.3 | -55 | 129 | -2.1 | 4.8 | -2.5 | 2 | C |
| 23 | 275 | 13.9 | 0 | C | 6.1 | -25 | 133 | -3.6 | 4.5 | 0.1 | 2 | C |
| 24 | 268 | 14.8 | 0 | C | 6.8 | -10 | 133 | -4.5 | 4.6 | 1.8 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 345 | 15.4 | 0 | C |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 404 | 12.9 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 404 | 12.9 | 0 | C | 17.8 | -26 | 296 | 7.0 | -11.0 | -11.6 | 3 | C |
| 8 | 416 | 10.3 | 0 | C | 17.8 | -26 | 295 | 6.6 | -11.8 | -11.4 | 1 | C |
| 9 | 420 | 10.3 | 0 | C | 16.6 | -20 | 294 | 6.1 | -11.9 | -8.6 | 3 | C |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 411 | 10.7 | 0 | C | 13.1 | 7 | 293 | 4.9 | -11.4 | -0.9 | 3 | C |
| 13 | 411 | 10.7 | 0 | C | 12.9 | -20 | 311 | 7.6 | -7.7 | -6.2 | 2 | C |
| 14 | 404 | 8.7 | 0 | C | 12.4 | 21 | 321 | 8.1 | -7.3 | 2.1 | 5 | C |
| 15 | 458 | 8.1 | 0 | C | 10.2 | 21 | 325 | 7.4 | -6.0 | 1.8 | 3 | C |
| 16 | 457 | 8.8 | 0 | C | 7.2 | 10 | 347 | 6.9 | -1.9 | 0.6 | 1 | C |
| 17 | 448 | 8.9 | 0 | C | 7.4 | 3 | 345 | 7.1 | -1.9 | -0.3 | 1 | C |
| 18 | 432 | 8.5 | 0 | C | 7.3 | -14 | 350 | 6.9 | -0.4 | -2.1 | 1 | C |
| 19 | 437 | 8.0 | 0 | C | 6.1 | -20 | 11 | 5.4 | 1.8 | -1.3 | 2 | C |
| 20 | 433 | 7.5 | 0 | C | 5.4 | -5 | 5 | 5.3 | 0.6 | -0.2 | 0 | C |
| 21 | 434 | 6.7 | 0 | C | 6.4 | -40 | 4 | 4.2 | 2.2 | -2.8 | 2 | C |
| 22 | 434 | 6.7 | 0 | C | 6.0 | -18 | 0 | 5.3 | 1.0 | -1.5 | 2 | C |
| 23 | 423 | 5.9 | 0 | C | 5.5 | -2 | 1 | 4.9 | 0.2 | -0.1 | 2 | C |
| 24 | 433 | 4.6 | 0 | C | 7.1 | 3 | 320 | 5.3 | -3.9 | -2.3 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 320 | 5.1 | 0 | C | 3.7 | 22 | 318 | 2.5 | -2.6 | -0.1 | 1 | C |
| 2 | 335 | 5.3 | 0 | C | 3.8 | 0 | 351 | 3.6 | -0.5 | -0.3 | 1 | C |
| 3 | 348 | 5.3 | 0 | C | 3.7 | 9 | 9 | 3.2 | 0.2 | 0.7 | 1 | C |
| 4 | 353 | 6.1 | 0 | C | 3.2 | -38 | 314 | 1.4 | -0.6 | -2.0 | 2 | C |
| 5 | 371 | 5.9 | 33 | J | 3.4 | -12 | 337 | 2.3 | -0.7 | -0.9 | 2 | J |
| 6 | 383 | 9.0 | 26 | J | 2.6 | 59 | 282 | 0.3 | -1.9 | 1.6 | 1 | J |
| 7 | 388 | 8.5 | 34 | J | 3.2 | 74 | 262 | -0.1 | -1.1 | 1.6 | 3 | J |
| 8 | 383 | 7.2 | 0 | C | 2.6 | 46 | 132 | -1.1 | 0.7 | 2.0 | 1 | C |
| 9 | 404 | 10.5 | 22 | J | 1.4 | -12 | 99 | -0.2 | 1.1 | 0.0 | 1 | J |
| 10 | 401 | 9.9 | 27 | J | 1.3 | 8 | 107 | -0.3 | 1.1 | 0.4 | 1 | J |
| 11 | 396 | 9.0 | 29 | J | 1.6 | 0 | 124 | -0.7 | 1.1 | 0.2 | 1 | J |
| 12 | 387 | 8.0 | 30 | J | 1.7 | -21 | [illegible] | -0.9 | -0.3 | -0.5 | 2 | J |
| 13 | 376 | 4.7 | 27 | J | 3.7 | 13 | 268 | -0.1 | -3.6 | 0.0 | 1 | J |
| 14 | 341 | 6.6 | 0 | C | 2.7 | 40 | 168 | -1.3 | -0.0 | 1.2 | 2 | C |
| 15 | 380 | 8.4 | 0 | C | 2.5 | 13 | 126 | -1.4 | 1.7 | 1.1 | 1 | C |
| 16 | 385 | 9.0 | 22 | J | 2.9 | 24 | 133 | -1.4 | 1.1 | 1.4 | 2 | J |
| 17 | 388 | 9.3 | 22 | J | 2.2 | 41 | 160 | -1.4 | -0.0 | 1.4 | 1 | J |
| 18 | 387 | 8.3 | 26 | J | 2.5 | 52 | 118 | -0.7 | 0.4 | 2.3 | 1 | J |
| 19 | 385 | 9.1 | 26 | J | 1.7 | 49 | [illegible] | -0.3 | 0.3 | 1.5 | 1 | J |
| 20 | 389 | 9.6 | 25 | J | 1.2 | 13 | 74 | 0.2 | 0.6 | 0.6 | 1 | J |
| 21 | 412 | 12.7 | 33 | J | 1.7 | 6 | 287 | 0.4 | -1.1 | -0.6 | 1 | J |
| 22 | 406 | 12.9 | 33 | J | 2.1 | 40 | 353 | 1.1 | -0.7 | 0.7 | 2 | J |
| 23 | 399 | 11.2 | 32 | J | 5.3 | 18 | 71 | 0.6 | 1.1 | 1.5 | 5 | J |
| 24 | 396 | 9.4 | 36 | J | 7.0 | 23 | 75 | 1.6 | 3.4 | 5.4 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 325 | 10.5 | 0 | C | 3.5 | -4 | 324 | 2.7 | -1.5 | -1.3 | 1 | C |
| 330 | 9.4 | 0 | C | 3.6 | -5 | 323 | 2.7 | -1.6 | -1.3 | 1 | C |
| 332 | 10.4 | 0 | C | 3.1 | -45 | 354 | 1.1 | 0.4 | -1.0 | 3 | C |
| 334 | 9.6 | 0 | C | 4.4 | -16 | 115 | -1.8 | 4.0 | 0.7 | 0 | C |
| 328 | 10.2 | 0 | C | 2.9 | -8 | 347 | 2.6 | -0.4 | -0.6 | 1 | C |
| 329 | 9.5 | 0 | C | 2.4 | 48 | 339 | 1.2 | -1.0 | 1.2 | 1 | C |
| 328 | 8.7 | 0 | C | 2.3 | 66 | 356 | 0.7 | -0.5 | 1.4 | 1 | C |
| 326 | 8.5 | 0 | C | 1.7 | -14 | 155 | -0.7 | 0.4 | -0.1 | 1 | C |
| 313 | 7.6 | 0 | C | 2.9 | -33 | 125 | -1.0 | 1.7 | -0.8 | 2 | C |
| 297 | 7.0 | 0 | C | 4.1 | -31 | 128 | -1.9 | 2.9 | -1.3 | 2 | C |
| 300 | 7.5 | 0 | C | 4.3 | -42 | 123 | -1.6 | 2.9 | -2.1 | 2 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 288 | 8.6 | 0 | C | 4.4 | -28 | 134 | -2.4 | 2.9 | -1.3 | 2 | C |
| 289 | 8.9 | 0 | C | 4.7 | -44 | 120 | -1.7 | 3.5 | -2.3 | 1 | C |
| 278 | 8.8 | 0 | C | 4.7 | -31 | 150 | -3.3 | 2.5 | -1.7 | 1 | C |
| 273 | 8.7 | 0 | C | 4.8 | -27 | 160 | -4.0 | 2.1 | -1.6 | 0 | C |
| 270 | 8.8 | 0 | C | 4.7 | -25 | 156 | -3.7 | 2.3 | -1.1 | 1 | C |
| 271 | 8.8 | 0 | C | 4.6 | -8 | 152 | -3.4 | 1.9 | 0.3 | 2 | C |
| 272 | 8.4 | 0 | C | 4.8 | -7 | 125 | -2.4 | 3.2 | 1.1 | 2 | C |
| 267 | 8.0 | 0 | C | 4.6 | 12 | 136 | -3.1 | 2.1 | 2.4 | 1 | C |
| 265 | 7.9 | 0 | C | 4.7 | -1 | 111 | -1.6 | 3.6 | 2.3 | 1 | C |
| 263 | 7.5 | 0 | C | 4.7 | -18 | 140 | -3.3 | 3.1 | 0.4 | 1 | C |
| 260 | 7.1 | 0 | C | 4.6 | -2 | 132 | -3.1 | 2.9 | 1.8 | 0 | C |
| 257 | 6.9 | 0 | C | 4.6 | -3 | 139 | -3.4 | 2.6 | 1.5 | 1 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 277 | 16.9 | 0 | C | 6.9 | 69 | 135 | -1.6 | -1.9 | 5.7 | 3 | C |
| 275 | 16.4 | 0 | C | 7.2 | 49 | 146 | -3.8 | -0.6 | 5.9 | 1 | C |
| 269 | 17.3 | 0 | C | 6.7 | 59 | 73 | 0.9 | 0.0 | 5.8 | 3 | C |
| 269 | 17.8 | 0 | C | 7.5 | 53 | 46 | 3.0 | 0.2 | 6.5 | 2 | C |
| 269 | 16.0 | 0 | C | 6.8 | 60 | 306 | 2.0 | -4.8 | 4.2 | 1 | C |
| 264 | 13.6 | 0 | C | 6.4 | 71 | 176 | -1.9 | -1.9 | 5.2 | 3 | C |
| 261 | 13.6 | 0 | C | 6.3 | 50 | 159 | -3.8 | -0.1 | 5.0 | 1 | C |
| 259 | 14.9 | 0 | C | 5.7 | 14 | 156 | -4.9 | 1.7 | 1.9 | 1 | C |
| 255 | 15.0 | 0 | C | 6.2 | 5 | 159 | -5.7 | 2.0 | 1.0 | 1 | C |
| 255 | 14.7 | 0 | C | 6.9 | 21 | 172 | -6.3 | 0.3 | 2.6 | 1 | C |
| 262 | 16.3 | 0 | C | 6.3 | 9 | 169 | -6.1 | 0.9 | 1.2 | 0 | C |
| 265 | 18.4 | 0 | C | 5.5 | 0 | 162 | -5.2 | 1.7 | 0.3 | 0 | C |
| 258 | 19.8 | 0 | C | 6.5 | 15 | 124 | -3.5 | 4.6 | 2.8 | 1 | C |
| 257 | 22.4 | 0 | C | 6.5 | 2 | 131 | -4.1 | 4.6 | 1.5 | 2 | C |
| 260 | 28.9 | 0 | C | 5.5 | 6 | 133 | -3.5 | 3.4 | 1.6 | 2 | C |
| 253 | 34.9 | 0 | C | 5.3 | 25 | 117 | -1.9 | 2.9 | 3.1 | 2 | C |
| 251 | 38.8 | 0 | C | 4.1 | 60 | 6 | 0.8 | -0.5 | 1.3 | 4 | C |
| 255 | 41.4 | 0 | C | 6.4 | 83 | 243 | -0.3 | -2.5 | 4.0 | 4 | C |
| 279 | 33.8 | 0 | C | 9.8 | 60 | 338 | 3.5 | -4.4 | 5.2 | 6 | C |
| 285 | 31.7 | 0 | C | 11.4 | 56 | 317 | 4.2 | -7.7 | 5.3 | 4 | C |
| 279 | 33.5 | 0 | C | 11.8 | 10 | 308 | 6.5 | -8.1 | -2.9 | 4 | C |
| 342 | 16.1 | 0 | C | 13.9 | -14 | 313 | 9.1 | -6.2 | -8.3 | 1 | C |
| 352 | 15.2 | 0 | C | 14.7 | -22 | 311 | 8.8 | -5.2 | -10.3 | 2 | C |
| 349 | 15.7 | 0 | C | 14.8 | -13 | 306 | 8.3 | -7.6 | -9.3 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 447 | 3.2 | 0 | C | 5.6 | 0 | 335 | 4.8 | -1.9 | -1.2 | 2 | C |
| 457 | 2.0 | 0 | C | 4.1 | -14 | 344 | 3.8 | -0.4 | -1.4 | 0 | C |
| 469 | 1.6 | 0 | C | 4.2 | -12 | 347 | 4.0 | -0.4 | -1.2 | 0 | C |
| 477 | 1.6 | 0 | C | 4.2 | -7 | 353 | 4.2 | -0.2 | -0.7 | 0 | C |
| 473 | 1.6 | 0 | C | 4.3 | -6 | 353 | 4.2 | -0.3 | -0.6 | 0 | C |
| 438 | 2.1 | 0 | C | 4.2 | -5 | 352 | 4.1 | -0.4 | -0.6 | 0 | C |
| 380 | 2.9 | 0 | C | 4.1 | -13 | 349 | 3.9 | -0.4 | -1.1 | 0 | C |
| 390 | 2.6 | 0 | C | 4.2 | -13 | 356 | 4.0 | -0.0 | -1.0 | 0 | C |
| 413 | 2.3 | 0 | C | 4.2 | -11 | 353 | 4.1 | -0.3 | -0.9 | 0 | C |
| 393 | 2.9 | 0 | C | 3.9 | -5 | 349 | 3.7 | -0.6 | -0.5 | 1 | C |
| 339 | 4.1 | 0 | C | 3.8 | -12 | 353 | 3.7 | -0.3 | -0.9 | 0 | C |
| 375 | 3.2 | 0 | C | 3.3 | 2 | 343 | 3.1 | -1.0 | -0.1 | 1 | C |
| 418 | 2.5 | 0 | C | 3.4 | 13 | 333 | 2.8 | -1.6 | 0.4 | 1 | C |
| 412 | 2.6 | 0 | C | 3.4 | 27 | 331 | 2.5 | -1.7 | 1.1 | 1 | C |
| 414 | 2.6 | 0 | C | 3.2 | -6 | 305 | 1.7 | -2.2 | -1.0 | 1 | C |
| 418 | 2.6 | 0 | C | 3.2 | 24 | 315 | 1.9 | -2.2 | 0.5 | 1 | C |
| 418 | 2.6 | 0 | C | 2.9 | 17 | 296 | 1.2 | -2.6 | -0.2 | 0 | C |
| 361 | 3.7 | 0 | C | 3.2 | 1 | 329 | 2.7 | -1.5 | -0.7 | 0 | C |
| 361 | 3.7 | 0 | C | 3.1 | 26 | 294 | 1.0 | -2.4 | 0.0 | 2 | C |
| 402 | 2.6 | 0 | C | 3.0 | 28 | 242 | -1.0 | -2.2 | 0.0 | 2 | C |
| 318 | 4.4 | 0 | C | 3.2 | 22 | 297 | 1.3 | -2.8 | -0.4 | 1 | C |
| 322 | 4.6 | 0 | C | 2.7 | 9 | 303 | 1.3 | -1.8 | -0.8 | 1 | C |
| 319 | 3.9 | 0 | C | 3.6 | -10 | 315 | 2.6 | -1.5 | -1.8 | 1 | C |
| 318 | 4.7 | 0 | C | 3.5 | -3 | 306 | 1.8 | -1.9 | -1.5 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 394 | 9.1 | 40 | J | 5.1 | -45 | 88 | 0.1 | 4.4 | -0.9 | 2 | J |
| 391 | 9.0 | 47 | J | 4.7 | -6 | 80 | 0.7 | 3.8 | 1.8 | 2 | J |
| 368 | 5.0 | 0 | C | 5.7 | -7 | 109 | -1.7 | 4.6 | 1.9 | 2 | C |
| 378 | 4.3 | 0 | C | 6.0 | -33 | 93 | -0.2 | 5.6 | -0.6 | 2 | C |
| 384 | 4.3 | 0 | C | 6.3 | -55 | 63 | 1.4 | 4.3 | -2.9 | 3 | C |
| 378 | 4.9 | 33 | J | 5.3 | 2 | 252 | -1.6 | -4.6 | -1.6 | 1 | J |
| 379 | 4.8 | 33 | J | 5.2 | 14 | 244 | -2.1 | -4.4 | -0.2 | 2 | J |
| 370 | 5.6 | 31 | J | 5.6 | 14 | 232 | -3.3 | -4.5 | 0.2 | 0 | J |
| 369 | 6.2 | 26 | J | 5.6 | 19 | 228 | -3.5 | -4.2 | 0.8 | 1 | J |
| 371 | 6.4 | 27 | J | 5.5 | 9 | 251 | -1.4 | -4.1 | -0.2 | 4 | J |
| 349 | 7.0 | 0 | C | 5.3 | 33 | 176 | -4.3 | -0.3 | 2.8 | 1 | C |
| 342 | 5.8 | 20 | J | 4.5 | 9 | 178 | -4.4 | 0.0 | 0.7 | 0 | J |
| 346 | 7.1 | 43 | J | 5.1 | -4 | 172 | -4.9 | 0.8 | -0.2 | 1 | J |
| 342 | 7.7 | 43 | J | 5.2 | -4 | 173 | -5.1 | 0.7 | -0.2 | 1 | J |
| 345 | 8.4 | 47 | J | 4.8 | -13 | 163 | -4.4 | 1.6 | -0.6 | 1 | J |
| 348 | 8.0 | 28 | J | 4.9 | -25 | 152 | -3.8 | 2.6 | -1.2 | 1 | J |
| 337 | 6.4 | 21 | J | 4.8 | 12 | 148 | -3.7 | 1.8 | 1.8 | 1 | J |
| 344 | 6.6 | 0 | C | 5.1 | 9 | 146 | -4.0 | 2.1 | 1.8 | 1 | C |
| 341 | 5.6 | 20 | J | 4.9 | -16 | 179 | -3.8 | 0.6 | -0.9 | 3 | J |
| 339 | 5.5 | 21 | J | 5.2 | -40 | 190 | -3.7 | 1.1 | -3.0 | 2 | J |
| 337 | 5.6 | 21 | J | 5.1 | -37 | 185 | -3.8 | 1.3 | -2.6 | 2 | J |
| 339 | 5.9 | 20 | J | 5.2 | -43 | 208 | -3.2 | 0.5 | -3.8 | 1 | J |
| 332 | 6.1 | 19 | J | 5.2 | -1 | 179 | -4.6 | 0.1 | -0.0 | 2 | J |
| 341 | 5.8 | 23 | J | 5.3 | -39 | 204 | -2.8 | 0.4 | -2.8 | 3 | J |

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HR   VEL  DEN TEMP/ PLS  AV B  GSE  GSE BXGSM BYGSM BZGSM SG IMF
              1000   SC  MAGN  LAT  LON                        SC

                     MAR. 30, 1980                             90
 1   347  5.7   21   J    5.7  -59  216  -2.3   1.2  -4.9   1   J
 2   351  6.3   24   J    5.8  -46  238  -2.0  -0.7  -4.9   2   J
 3   365  8.9   23   J    7.2  -45  243  -2.2  -1.4  -6.3   3   J
 4   365  8.2   27   J    7.5  -42  232  -3.2  -1.6  -6.0   3   J
 5   364  7.4   28   J    7.7  -42  231  -3.4  -1.9  -6.2   2   J
 6   356  7.9   31   J    7.8  -39  219  -4.3  -1.7  -5.4   3   J
 7   349  7.9   50   J    8.3  -47  191  -5.6   0.8  -6.1   0   J
 8   328  5.3   24   J    6.4   -5  157  -5.4   2.3   0.1   2   J
 9   333  5.7   23   J    6.3   -2  204  -4.9  -2.1  -0.7   3   J
10   322  5.3   30   J    6.1   28  183  -5.1  -0.8   2.6   2   J
11   315  6.5    0   C    6.3   15  173  -5.8   0.3   1.7   1   C
12   327  5.7    0   C
13   337  5.5   23   J    5.8  -22  142  -3.6   3.1  -1.2   3   J
14   347  5.7   23   J    6.0   37  107  -1.2   3.1   4.1   3   J
15   337  5.8   24   J    5.6   12  122  -2.7   3.8   2.3   2   J
16   325  5.6   21   J    5.9   31  154  -4.3   1.0   3.4   2   J
17   324  5.5   21   J    5.8   13  137  -4.1   3.0   2.6   1   J
18   326  5.3   21   J    5.5   -8  127  -3.0   3.9   1.1   2   J
19   327  6.1   21   J    5.2  -18  125  -2.6   3.9   0.5   2   J
20   322  5.7   26   J    5.0  -11  128  -2.7   3.4   1.0   2   J
21   321  5.5   27   J    5.2    7  124  -2.7   3.0   2.6   2   J
22   325  6.1   27   J    5.0   -2  125  -2.6   3.2   2.0   2   J
23   315  5.5   26   J    5.3   26  140  -3.4   1.1   3.4   1   J
24   321  7.7   33   J    6.1   27  147  -4.3   0.8   3.8   3   J

     VEL  DEN TEMP/ PLS  AV B  GSE  GSE BXGSM BYGSM BZGSM SG IMF
              1000   SC  MAGN  LAT  LON                        SC

                     MAR. 31, 1980                             91
     383 16.2  121   J    9.8   16  140  -6.3   3.1   4.8   5   J
     390 18.9  111   J   10.0    4  127  -3.8   4.1   3.0   8   J
     379 21.7    0   C    9.7  -48  187  -5.8   2.6  -6.1   3   C
     391 13.3   65   J   11.9  -34  109  -3.1  11.0  -1.7   2   J
     382 14.6   45   J   11.6  -33  114  -3.7   9.8  -2.0   4   J
     394 15.3   49   J   11.0  -49  105  -1.8   8.9  -5.0   3   J
     400 14.4   57   J   10.7  -49   90  -0.0   8.9  -5.4   2   J
     394 13.7   58   J    9.7  -54  109  -1.8   7.1  -5.9   2   J
     380 10.5   57   J    9.7  -34  109  -2.6   8.5  -3.4   2   J
     394 11.4   63   J   10.4  -16   88   0.3   9.4  -0.6   4   J
     388 11.5   55   J   10.9  -19   96  -0.8   8.3  -1.1   7   J
     394  8.3   61   J    9.8  -61   85   0.2   2.3  -2.7   9   J
     382  4.6   46   J   10.3   59   25   4.7   0.3   8.8   2   J
     389  4.0   45   J   10.5   28   51   4.7   4.6   5.2   6   J
     380  4.4   31   J    9.9  -32   77   1.6   7.8  -2.3   5   J
     373  8.4   32   J    8.7   62   47   2.8   0.3   8.1   1   J
     372  7.6   25   J    8.5   50   38   4.3   0.6   7.3   1   J
     380  7.7   40   J    9.3   52   18   5.3  -1.5   7.2   2   J
     401  9.4   64   J   11.7   56   12   6.3  -3.4   9.1   1   J
     397  7.6   72   J   11.1   56  314   4.0  -8.0   5.3   4   J
     401  6.1   69   J   10.2   49  294   2.7  -9.3   3.2   1   J
     380  1.7   32   J   10.9   14  271   0.2 -10.2  -3.7   1   J
     416  1.4   33   J   10.5   22  279   1.5 -10.1  -2.2   1   J
     414  1.0   85   L    9.9   28  282   1.8  -9.7  -1.0   0   J

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 1   400  0.9   80   L    9.6   25  280   1.5  -9.3  -1.3   1   C
 2   387  1.4    0   C    9.1   10  291   3.2  -7.9  -3.1   1   C
 3   404  2.0  180   L    7.5   26  122  -2.5   2.4   4.0   5   C
 4   407  1.6   53   J    7.7   20  124  -4.0   4.1   5.0   1   J
 5   418  1.4   43   J    7.9    7  123  -4.2   5.5   3.4   2   J
 6   386  1.9  134   L    7.9   22  127  -4.4   4.4   4.8   1   J
 7   364  1.2   39   J    7.8    9  135  -5.4   4.7   2.8   1   J
 8   367  1.7  140   L    7.8   20  146  -5.8   3.1   3.5   2   J
 9   400  2.9   37   J    7.3    9  145  -5.8   3.7   2.0   1   J
10   387  3.0   42   J    7.1    5  153  -6.1   2.9   1.2   1   J
11   390  2.8   41   J    6.5   -3  172  -6.2   0.9  -0.1   2   J
12   328  2.4    0   C    6.3   -4  177  -6.1   0.4  -0.4   1   J
13   394  1.7   81   L    5.8    1  186  -5.6  -0.6  -0.0   1   J
14   354  2.2    0   C    7.5  -23  179  -6.8   0.8  -2.8   1   J
15   369  2.1    0   C    7.5  -29  175  -6.4   1.6  -3.3   1   J
16   358  1.9    0   C    7.3  -40  164  -5.4   3.0  -3.9   1   C
17   362  1.9    0   C    6.9  -23  168  -6.0   2.2  -1.9   2   J
18   373  1.9    0   C    7.1  -23  173  -6.2   1.8  -2.1   1   J
19   296  2.5    0   C    6.8  -23  174  -6.0   1.7  -1.9   1   J
20   347  2.1    0   C    7.0  -20  175  -6.4   1.7  -1.7   1   J
21   333  1.5    0   C    6.9  -15  172  -6.3   1.7  -1.0   1   J
22   344  1.5    0   C    6.9  -15  166  -6.4   2.3  -0.6   1   J
23   368  1.3    0   C    6.3   -9  181  -5.9   0.4  -0.8   1   J
24   379  1.2    0   C    5.9  -12  182  -5.5   0.5  -1.1   2   J

                     APR. 2, 1980                              93
                          5.9  -16  180  -5.3   0.8  -1.3   2   J
                          6.7  -21  179  -5.6   1.2  -1.8   3   J
                          7.4  -27  184  -6.2   1.2  -3.0   2   J
                          7.3  -13  172  -6.5   1.5  -0.9   2   J
                          7.3   -9  165  -6.7   2.1  -0.3   2   J
     387  1.2    0   C   11.8   11  146  -9.4   5.1   4.3   4   J
     387  1.2    0   C   13.6   13  142 -10.4   6.8   5.4   1   J
     369  1.3    0   C   13.2   10  141  -9.9   7.1   4.3   3   J
     369  1.4    0   C   12.7    3  140  -9.6   7.7   2.5   2   J
     332  1.5    0   C   12.8    5  142 -10.0   7.4   2.7   1   J
     336  1.5    0   C    8.0  -12  160  -6.7   2.7  -1.0   2   J
     359  1.7    0   C    7.0  -12  172  -6.2   1.1  -1.1   2   J
     359  1.7    0   C    6.5  -17  174  -6.2   1.0  -1.7   0   C
     368  1.7    0   C    6.5   -9  156  -5.8   2.7  -0.4   1   C
     367  1.8    0   C    6.3  -12  160  -5.8   2.4  -0.7   0   C
     359  1.8    0   C    6.3  -12  161  -5.7   2.3  -0.6   1   C
     371  2.1    0   C    6.4   -1  157  -5.8   2.4   0.8   1   C
     356  2.3    0   C    6.5   16  151  -5.4   1.9   2.8   1   C
     405  2.4    0   C    6.3   53  143  -2.9  -0.4   5.4   1   C
     406  3.1    0   C    6.3   80  126  -0.6  -2.3   5.7   1   C
     392  3.8    0   C    6.1   58  143  -2.6  -1.1   5.4   1   J
     393  4.8    0   C    9.5   45  129  -4.1   0.6   8.1   3   J
     420  7.3    0   C   10.3   48  124  -3.7   0.4   9.2   3   J
     395  7.6    0   C   10.0   47  143  -5.3  -0.7   8.2   2   J

                     APR. 3, 1980                              94
 1   384  7.1    0   C    9.3    1  151  -7.0   3.2   2.2   5   J
 2   365  6.7    0   C    8.9   12  137  -6.2   4.0   4.6   2   J
 3   365  5.8    0   C    9.0    6  135  -6.1   4.8   3.7   2   J
 4   361  5.5    0   C    8.5  -21  143  -6.0   5.4  -0.6   2   J
 5   402  4.6   71   L    8.5   -5  139  -4.4   3.7   1.1   6   J
 6   373  6.0    0   C    8.2   33  112  -1.8   3.1   4.5   6   J
 7   392  4.9   86   L    7.8   10  144  -5.6   3.5   2.4   3   J
 8   351  6.4    0   C    7.4   17  126  -3.2   3.8   2.8   5   J
 9   353  6.7    0   C    7.4  -12  150  -6.1   3.8  -0.7   2   J
10   392  6.1   81   L    7.5  -10  145  -4.5   3.3  -0.3   4   C
11   374  5.7   75   L
12   374  6.2   76   L
13   349  6.7    0   C    7.1    6  145  -5.7   3.7   1.6   1   C
14   351  6.8    0   C    7.2   -2  150  -5.8   3.3   0.5   2   C
15   353  7.0    0   C
16
17
18   397  7.4    0   C    6.6    7  136  -3.9   3.1   2.2   3   C
19   397  7.4    0   C    6.5    3  135  -3.5   3.0   1.9   4   C
20   385  6.9    0   C    6.7   30  126  -3.2   2.2   4.9   2   C
21   400  6.1    0   C    7.2   57   96  -0.4   0.1   6.6   2   C
22   407  6.3    0   C    7.5   37  107  -1.5   2.0   6.0   3   C
23   385  5.1    0   C    8.8   33  110  -2.4   2.9   7.7   1   C
24   398  4.1    0   C    8.8   24  111  -2.8   4.2   7.0   1   C

                     APR. 4, 1980                              95
     429  3.2    0   C    9.1   37   98  -1.0   3.0   8.3   2   C
     449  3.1    0   C    9.3   50   81   1.0   1.3   9.0   1   C
     450  3.2    0   C    9.1   56   89   0.1   0.8   8.7   2   C
     456  3.2    0   C    8.9   40   89   0.1   3.4   7.8   2   C
     464  3.1    0   C    8.6   17  116  -2.8   4.5   4.1   5   C
     460  3.2    0   C    7.5   14  128  -3.8   4.0   3.1   4   C
     456  3.2    0   C    7.2   -3  150  -5.7   3.2   0.7   2   C
     453  2.7    0   C
     453  2.7    0   C    8.1  -21  137  -5.0   5.1  -1.5   3   C
     447  2.7    0   C    8.8  -10  130  -5.3   6.6  -0.1   2   C
     426  2.2    0   C    8.6  -33  141  -5.3   5.0  -3.5   3   C
     459  2.3    0   C    8.5  -15  150  -6.0   3.7  -1.2   4   C
     440  2.4    0   C    8.2  -17  135  -5.5   5.8  -1.1   1   C
     435  2.3    0   C    8.0   -9  143  -6.2   4.8  -0.1   2   C
     434  2.4    0   C    7.9  -25  147  -5.7   4.5  -2.0   2   C
     444  2.5    0   C    7.1  -33  130  -3.3   4.9  -2.0   3   C
     465  3.0    0   C    6.5  -60  127  -1.7   3.9  -3.7   3   C
     455  3.0    0   C    6.2  -47  121  -1.7   4.0  -2.0   4   C
     462  2.9    0   C    6.4  -47  110  -1.5   5.6  -2.1   1   C
     484  2.4    0   C    6.8  -30  126  -3.3   5.5  -0.4   2   C
     477  2.2    0   C    6.6  -21  119  -2.8   5.4   0.8   2   C
     412  2.7    0   C    6.1    0  148  -4.6   2.4   1.6   2   C
     454  2.3    0   C    6.2    7  143  -4.6   2.5   2.6   1   C
     515  1.8    0   C    6.2    6  148  -4.8   2.1   2.2   2   C

                     APR. 5, 1980                              96
 1   506  1.8    0   C    6.1   12  152  -4.9   1.5   2.3   2   C
 2   505  1.7    0   C    6.3  -13  126  -3.3   4.6   1.2   2   C
 3   513  1.7    0   C    6.0  -15  129  -3.3   4.4   0.7   2   C
 4   503  1.7    0   C    5.8   -9  135  -3.6   3.6   0.9   2   C
 5   489  1.6    0   C    5.7    9  157  -4.7   1.5   1.6   2   C
 6   494  1.6    0   C    5.6   23  173  -4.7  -0.2   2.1   2   C
 7   496  1.7    0   C    5.5   15  170  -4.3   0.4   1.4   3   C
 8   499  1.7    0   C    5.4   32  145  -3.5   1.7   3.2   2   C
 9   494  1.7    0   C    5.2    8  131  -3.1   3.3   1.4   2   C
10   480  1.7    0   C    5.2   18  143  -3.6   2.3   2.0   2   C
11   463  1.6    0   C    5.2   16  170  -4.8   0.6   1.5   1   C
12   496  1.7    0   C    4.3    7  165  -3.7   0.9   0.6   1   C
13   526  1.8    0   C    4.5   33  182  -3.5  -0.6   2.2   1   C
14   572  2.5    0   C    5.1  -15  154  -3.5   1.9  -0.6   3   C
15   578  3.1    0   C    6.3   19  183  -5.3  -0.8   1.6   2   C
16   578  3.3    0   C    6.6   10  201  -5.2  -2.2   0.3   3   C
17   607  3.1    0   C    6.5   48  193  -1.8  -1.1   1.7   6   C
18   632  2.7    0   C    7.2   62   74   0.8   0.2   6.3   3   C
19   596  2.6    0   C    7.4   47   83   0.7   1.9   7.1   1   C
20   574  2.5    0   C    7.1   34   82   0.8   3.0   6.3   1   C
21   560  2.4    0   C    6.7   31  103  -1.3   2.9   5.8   1   C
22   555  2.3    0   C    5.9   23  100  -0.9   3.0   4.7   1   C
23   535  2.4    0   C    5.4   21  100  -0.8   2.8   4.1   2   C
24   526  2.3    0   C    5.2   28  110  -1.5   2.1   4.1   2   C

                     APR. 6, 1980                              97
     525  2.5    0   C    4.6   15   95  -0.4   2.9   3.2   1   C
     495  3.1    0   C    4.3   -9   95  -0.3   3.7   1.5   1   C
     488  3.3    0   C    4.9  -24   78   0.8   4.2   0.3   2   C
     501  2.9    0   C    4.5  -37   63   1.4   3.6  -0.9   2   C
     495  2.6    0   C    4.4    9  103  -0.9   3.4   2.2   1   C
     485  2.5    0   C    4.3   17  177  -3.1  -0.2   0.9   2   C
     473  2.4    0   C    4.4   22  170  -3.6   0.2   1.6   1   C
     464  2.3    0   C    4.9   17  174  -4.6   0.1   1.5   1   C
     457  2.4    0   C    5.2   17  169  -4.8   0.6   1.6   0   C
     455  2.3    0   C    5.1    9  165  -4.9   1.1   1.0   0   C
     460  2.2    0   C    4.7    7  165  -4.4   1.0   0.8   1   C
     602  6.5    0   C    9.5   41  177  -5.6  -0.7   4.8   5   C
     651  8.3    0   C    9.7   -4  221  -6.1  -5.0  -1.6   5   C
     657  7.6    0   C    8.6  -20  137  -3.6   3.7  -0.9   7   C
     644  6.6    0   C    9.9  -13  243  -4.2  -7.2  -4.4   3   C
     654  5.9    0   C   10.2  -24  259  -1.5  -6.2  -5.9   5   C
     647  4.8    0   C    8.6  -76  134  -1.2   3.7  -5.9   4   C
     658  4.3    0   C    8.3   15   64   3.2   5.0   4.4   3   C
     653  3.9    0   C    8.9  -15   48   5.4   6.3   0.9   3   C
     646  3.8    0   C   11.0   16   73   2.8   6.5   6.9   4   C
     637  4.4    0   C   11.2   35   47   5.7   2.1   8.4   4   C
     587  4.4    0   C   10.4   22   36   7.6   2.5   6.2   2   C
     552  4.4    0   C    8.6   35   12   6.8  -1.5   4.8   2   C
     544  4.3    0   C    6.3   44    5   2.7  -1.2   2.3   5   C
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04/07/80 – 04/14/80

## APR. 7, 1980

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 566 | 3.0 | 0 | C | 6.2 | 29 | 89 | 0.0 | 2.7 | 4.9 | 2 | C |
| 2 | 553 | 3.0 | 0 | C | 6.4 | 35 | 72 | 1.6 | 2.3 | 5.5 | 1 | C |
| 3 | 336 | 3.0 | 0 | C | 6.7 | 37 | 62 | 2.5 | 2.1 | 5.7 | 1 | C |
| 4 | 595 | 2.0 | 0 | C | 4.6 | 35 | 43 | 2.7 | 1.1 | 3.4 | 1 | C |
| 5 | 590 | 2.1 | 0 | C | 4.9 | 35 | 69 | 1.4 | 2.3 | 3.8 | 1 | C |
| 6 | 529 | 2.9 | 0 | C | 4.2 | 48 | 46 | 1.5 | 0.7 | 2.8 | 2 | C |
| 7 | 513 | 3.4 | 0 | C | 3.8 | 6 | 150 | -0.7 | 0.3 | 0.2 | 4 | C |
| 8 | 488 | 3.2 | 0 | C | 3.4 | -31 | 188 | -1.3 | 0.0 | -0.8 | 3 | C |
| 9 | 461 | 3.1 | 0 | C | 4.3 | 15 | 74 | 1.2 | 3.7 | 1.9 | 1 | C |
| 10 | 451 | 3.2 | 0 | C | 3.7 | 5 | 72 | 1.1 | 3.2 | 0.9 | 1 | C |
| 11 | 459 | 2.6 | 0 | C | 4.3 | 35 | 100 | -0.6 | 2.9 | 3.0 | 1 | C |
| 12 | 515 | 2.0 | 0 | C | 5.0 | 26 | 116 | -2.0 | 3.5 | 2.9 | 0 | C |
| 13 | 519 | 3.1 | 0 | C | 2.7 | -10 | 287 | 0.4 | -1.3 | -0.5 | 2 | C |
| 14 | 485 | 4.4 | 0 | C | 3.5 | -22 | 287 | 0.9 | -2.6 | -1.9 | 1 | C |
| 15 | 466 | 4.9 | 0 | C | 3.1 | -13 | 320 | 2.0 | -1.4 | -1.0 | 2 | C |
| 16 | 457 | 4.8 | 0 | C | 2.5 | -7 | 359 | 2.4 | 0.1 | -0.3 | 0 | C |
| 17 | 457 | 5.0 | 0 | C | 3.4 | 24 | 354 | 2.9 | -0.8 | 1.1 | 1 | C |
| 18 | 475 | 5.8 | 0 | C | 4.1 | -33 | 32 | 2.3 | 2.1 | -1.0 | 2 | C |
| 19 | 475 | 5.6 | 0 | C | 4.8 | -77 | 279 | 0.2 | 1.2 | -4.4 | 1 | C |
| 20 | 480 | 4.4 | 0 | C | 5.7 | 34 | 79 | 0.8 | 2.1 | 4.4 | 3 | C |
| 21 | 483 | 3.5 | 0 | C | 7.6 | 13 | 240 | -2.7 | -4.5 | -1.4 | 5 | C |
| 22 | 470 | 3.9 | 0 | C | 7.7 | 7 | 234 | -4.4 | -5.6 | -2.6 | 1 | C |
| 23 | 451 | 4.7 | 0 | C | 7.3 | -69 | 29 | 1.1 | 2.3 | -2.4 | 6 | C |
| 24 | 464 | 5.8 | 0 | C | 5.5 | -3 | 264 | -0.4 | -2.7 | -2.0 | 4 | C |

## APR. 8, 1980

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 460 | 6.0 | 0 | C | 3.8 | 18 | 264 | -0.1 | -1.3 | -0.3 | 3 | C |
| 449 | 6.4 | 0 | C | 4.6 | -13 | 336 | 3.2 | -0.8 | -1.4 | 3 | C |
| 465 | 7.2 | 0 | C | 9.4 | 34 | 59 | 4.0 | 3.4 | 7.8 | 0 | C |
| 481 | 8.5 | 0 | C | 9.4 | 59 | 82 | 0.7 | 0.8 | 9.1 | 1 | C |
| 492 | 9.2 | 0 | C | 8.9 | 59 | 94 | -0.2 | 1.1 | 7.6 | 4 | C |
| 426 | 10.1 | 276 | L | 8.1 | 66 | 160 | -3.0 | -1.5 | 7.2 | 1 | C |
| 458 | 9.2 | 406 | L | 7.9 | 64 | 167 | -3.3 | -1.3 | 7.0 | 1 | C |
| 454 | 4.9 | 407 | L | 8.1 | 38 | 211 | -4.9 | -3.9 | 3.6 | 3 | C |
| 435 | 8.4 | 312 | L | 7.0 | 17 | 222 | -4.9 | -4.8 | 1.0 | 1 | C |
| 417 | 15.3 | 285 | L | 5.7 | 4 | 225 | -4.0 | -4.0 | -0.4 | 1 | C |
| 418 | 17.7 | 301 | L | 5.3 | -29 | 231 | -2.7 | -2.8 | -2.9 | 2 | C |
| 413 | 10.1 | 319 | L | 5.4 | -15 | 218 | -3.9 | -2.8 | -1.8 | 2 | C |
| 398 | 7.9 | 237 | L | 3.1 | 37 | 234 | -1.1 | -1.8 | 1.1 | 2 | C |
| 469 | 6.6 | 0 | C | 4.5 | 68 | 327 | 1.3 | -1.7 | 3.6 | 1 | C |
| 438 | 5.9 | 0 | C | 4.6 | 40 | 265 | -0.3 | -3.6 | 1.6 | 2 | C |
| 388 | 3.9 | 0 | C | 5.7 | 31 | 276 | 0.5 | -5.1 | 1.2 | 2 | C |
| 459 | 4.3 | 0 | C | 6.5 | 33 | 276 | 0.5 | -5.9 | 1.2 | 2 | C |
| 442 | 3.6 | 0 | C | 6.3 | 56 | 304 | 1.9 | -4.6 | 3.3 | 2 | C |
| 487 | 2.8 | 0 | C | 6.1 | 46 | 281 | 0.8 | -5.5 | 1.9 | 1 | C |
| 465 | 3.4 | 0 | C | 5.7 | 65 | 278 | 0.3 | -4.1 | 3.0 | 2 | C |
| 481 | 3.5 | 0 | C | 5.5 | 44 | 264 | -0.4 | -5.1 | 1.0 | 1 | C |
| 485 | 3.4 | 0 | C | 5.3 | 76 | 336 | 1.1 | -3.1 | 3.9 | 1 | C |
| 486 | 3.3 | 0 | C | 4.4 | 74 | 295 | 0.4 | -2.4 | 2.2 | 2 | C |
| 488 | 3.5 | 0 | C | 2.8 | 18 | 263 | -0.2 | -2.0 | -0.5 | 2 | C |

## APR. 9, 1980

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 456 | 4.2 | 0 | C | 4.3 | -13 | 297 | 1.8 | -2.4 | -2.6 | 2 | C |
| 2 | 433 | 3.6 | 0 | C | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 563 | 25.7 | 79 | L | | | | | | | | |
| 7 | 543 | 24.8 | 92 | L | 9.1 | 1 | 97 | -1.1 | 8.2 | 2.7 | 3 | C |
| 8 | 540 | 17.4 | 85 | L | 8.4 | -1[illegible] | 87 | 0.4 | 8.2 | 0.7 | 2 | C |
| 9 | 530 | 22.3 | 96 | L | 6.4 | -53 | 102 | -0.7 | 4.1 | -3.6 | 4 | C |
| 10 | 524 | 15.3 | 115 | L | 10.3 | -78 | 113 | -0.8 | 3.8 | -9.3 | 2 | C |
| 11 | 517 | 7.8 | 119 | L | 12.4 | -68 | 62 | 1.9 | 5.4 | -9.1 | 6 | C |
| 12 | 532 | 9.6 | 0 | C | 12.2 | -48 | 100 | -1.3 | 9.4 | -7.2 | 1 | C |
| 13 | 499 | 5.7 | 63 | L | 12.2 | -48 | 89 | 0.1 | 9.8 | -7.1 | 1 | C |
| 14 | 502 | 5.6 | 49 | J | 11.7 | -9 | 106 | -3.1 | 11.0 | 0.8 | 2 | J |
| 15 | 492 | 5.7 | 50 | J | 11.6 | -2 | 108 | -3.5 | 10.5 | 2.5 | 2 | J |
| 16 | 495 | 5.5 | 43 | J | 11.0 | -33 | 107 | -2.7 | 10.1 | -2.8 | 2 | J |
| 17 | 487 | 5.8 | 51 | J | 10.7 | 1 | 115 | -3.7 | 7.4 | 3.1 | 6 | J |
| 18 | 476 | 5.9 | 42 | J | 10.5 | 27 | 118 | -4.2 | 5.3 | 7.5 | 2 | J |
| 19 | 466 | 6.0 | 41 | J | 10.1 | 18 | 106 | -2.6 | 6.5 | 6.8 | 2 | J |
| 20 | 459 | 4.5 | 48 | J | 9.5 | 16 | 129 | -5.4 | 4.6 | 5.5 | 3 | J |
| 21 | 467 | 4.3 | 48 | J | 9.4 | 7 | 114 | -3.6 | 6.3 | 5.3 | 3 | J |
| 22 | 466 | 4.9 | 43 | J | 8.7 | 23 | 110 | -2.6 | 4.4 | 6.2 | 3 | J |
| 23 | 455 | 3.5 | 33 | J | 8.6 | 40 | 115 | -2.7 | 1.8 | 7.5 | 2 | J |
| 24 | 442 | 4.9 | 53 | J | 7.6 | -16 | 131 | -4.5 | 5.4 | 1.2 | 3 | J |

## APR. 10, 1980

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 439 | 5.0 | 53 | J | 7.6 | -11 | 126 | -4.0 | 5.4 | 1.8 | 3 | J |
| 437 | 9.6 | 73 | J | 5.7 | -63 | 145 | -1.3 | 2.4 | -2.2 | 5 | J |
| 402 | 6.5 | 0 | C | 7.3 | -45 | 275 | 0.5 | -2.1 | -6.9 | 1 | C |
| 438 | 8.2 | 50 | J | 6.7 | -24 | 282 | 1.3 | -4.2 | -5.0 | 1 | J |
| 436 | 8.2 | 42 | J | 7.0 | -56 | 278 | 0.5 | -1.3 | -6.7 | 1 | J |
| 440 | 7.4 | 44 | J | 7.2 | -31 | 289 | 1.9 | -4.0 | -5.1 | 2 | J |
| 420 | 5.0 | 33 | J | 7.6 | -61 | 276 | 0.4 | -1.6 | -7.3 | 1 | J |
| 417 | 5.1 | 30 | J | 7.7 | -65 | 261 | -0.5 | -1.4 | -7.6 | 0 | J |
| 413 | 8.4 | 60 | J | 6.1 | -77 | 304 | 0.7 | 0.1 | -5.5 | 3 | J |
| 430 | 7.9 | 54 | J | 6.5 | -74 | 84 | 0.2 | 2.7 | -5.3 | 3 | J |
| 429 | 8.8 | 0 | C | 6.1 | -49 | 123 | -2.0 | 3.8 | -3.6 | 3 | C |
| 404 | 8.3 | 25 | J | 7.9 | -3 | 134 | -5.4 | 5.6 | 0.6 | 1 | J |
| 404 | 8.0 | 26 | J | 7.8 | 25 | 149 | -5.8 | 2.8 | 3.8 | 2 | J |
| 415 | 8.7 | 24 | J | 7.8 | 18 | 134 | -5.0 | 4.5 | 3.4 | 2 | J |
| 405 | 7.9 | 26 | J | 7.0 | 31 | 157 | -4.9 | 1.1 | 3.6 | 3 | J |
| 411 | 7.5 | 32 | J | 6.3 | 21 | 181 | -5.5 | -0.8 | 2.0 | 2 | J |
| 406 | 6.8 | 34 | J | 5.6 | 24 | 163 | -4.6 | 0.5 | 2.5 | 2 | J |
| 401 | 6.3 | 43 | J | 7.2 | 31 | 169 | -6.0 | -0.5 | 3.8 | 2 | J |
| 422 | 8.8 | 50 | J | 11.0 | 44 | 143 | -6.2 | 0.7 | 8.8 | 2 | J |
| 379 | 8.2 | 0 | C | 10.1 | 22 | 141 | -7.1 | 3.0 | 6.1 | 2 | C |
| 372 | 6.0 | 0 | C | 9.2 | 24 | 151 | -7.3 | 1.5 | 5.3 | 1 | C |
| 367 | 5.5 | 0 | C | 8.6 | 18 | 144 | -6.6 | 2.5 | 4.8 | 1 | C |
| 388 | 5.8 | 57 | J | 7.8 | 12 | 180 | -6.6 | -0.8 | 1.2 | 4 | J |
| 368 | 10.3 | 25 | J | 8.0 | 0 | 265 | -0.7 | -6.6 | -4.3 | 2 | J |

## APR. 11, 1980

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 363 | 10.3 | 45 | J | 6.2 | 24 | 208 | -4.7 | -3.4 | 0.7 | 2 | J |
| 2 | 376 | 8.5 | 27 | J | 6.1 | 17 | 253 | -1.6 | -5.5 | -1.2 | 2 | J |
| 3 | 370 | 7.8 | 26 | J | 5.7 | 24 | 233 | -3.1 | -4.7 | 0.1 | 1 | J |
| 4 | 434 | 5.1 | 57 | J | 13.2 | 44 | 152 | -7.9 | 0.1 | 9.6 | 5 | J |
| 5 | 432 | 1.5 | 65 | L | 13.7 | 15 | 124 | -7.3 | 8.7 | 7.3 | 2 | J |
| 6 | 465 | 1.5 | 38 | J | 12.7 | -11 | 114 | -5.0 | 11.3 | 1.5 | 3 | J |
| 7 | 504 | 5.1 | 210 | J | 9.9 | -68 | 105 | -0.8 | 5.0 | -6.4 | 6 | J |
| 8 | 486 | 7.1 | 295 | J | 2.4 | 31 | 285 | 0.5 | -2.0 | 0.6 | 1 | J |
| 9 | 498 | 3.0 | 104 | J | 7.1 | -10 | 261 | -1.1 | -6.4 | -2.6 | 1 | J |
| 10 | 504 | 3.1 | 146 | J | 7.6 | -9 | 256 | -1.8 | -6.8 | -2.5 | 1 | J |
| 11 | 529 | 3.4 | 121 | J | 7.3 | -4 | 237 | -3.7 | -5.6 | -1.5 | 2 | J |
| 12 | 502 | 4.0 | 0 | C | 7.4 | 3 | 241 | -3.4 | -6.1 | -0.7 | 2 | C |
| 13 | 527 | 3.5 | 137 | J | 8.1 | 14 | 247 | -3.1 | -7.5 | 0.5 | 1 | J |
| 14 | 511 | 3.7 | 97 | J | 8.7 | 22 | 235 | -4.5 | -7.0 | 1.6 | 2 | J |
| 15 | 500 | 4.3 | 78 | J | 9.2 | 10 | 238 | -4.7 | -7.7 | -0.5 | 2 | J |
| 16 | 524 | 4.9 | 194 | J | 5.7 | -39 | 31 | 2.5 | 2.2 | -1.8 | 5 | J |
| 17 | 532 | 3.8 | 128 | J | 11.5 | -67 | 58 | 2.4 | 7.3 | -8.4 | 1 | J |
| 18 | 510 | 4.1 | 125 | J | 12.0 | -81 | 357 | 1.8 | 4.7 | -10.6 | 2 | J |
| 19 | 494 | 2.3 | 120 | J | 13.2 | -59 | 309 | 4.2 | 0.5 | -12.1 | 3 | J |
| 20 | 496 | 4.8 | 139 | J | 11.0 | -38 | 277 | 0.8 | -3.2 | -7.9 | 7 | J |
| 21 | 501 | 5.1 | 180 | J | 10.9 | -31 | 261 | -1.4 | -4.7 | -9.2 | 3 | J |
| 22 | 496 | 1.8 | 114 | J | 11.5 | 2 | 262 | -1.6 | -9.6 | -5.7 | 2 | J |
| 23 | 507 | 0.8 | 169 | J | 11.0 | 17 | 268 | -0.3 | -10.0 | -2.9 | 3 | J |
| 24 | 495 | 2.4 | 253 | L | 11.2 | 14 | 264 | -1.1 | -10.4 | -3.5 | 2 | J |

## APR. 12, 1980

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 525 | 2.9 | 177 | J | 11.0 | -9 | 277 | 1.1 | -7.0 | -6.1 | 6 | J |
| 548 | 4.5 | 276 | J | 8.1 | -41 | 298 | 2.2 | -1.6 | -5.7 | 5 | J |
| 554 | 6.3 | 398 | J | 7.2 | 16 | 19 | 5.7 | 0.9 | 2.5 | 3 | J |
| 552 | 5.3 | 348 | J | 8.1 | -1 | 282 | 1.5 | -6.3 | -3.1 | 4 | J |
| 548 | 4.6 | 234 | J | 7.8 | -19 | 299 | 3.2 | -4.5 | -4.3 | 3 | J |
| 532 | 4.5 | 203 | J | 7.2 | -18 | 311 | 4.2 | -3.9 | -3.5 | 3 | J |
| 533 | 4.8 | 210 | J | 7.8 | -18 | 329 | 6.3 | -2.9 | -3.3 | 1 | J |
| 555 | 3.6 | 169 | J | 7.7 | 7 | 357 | 7.2 | -0.6 | 0.8 | 2 | J |
| 518 | 3.9 | 0 | C | 6.4 | -8 | 334 | 5.4 | -2.4 | -1.4 | 2 | J |
| 530 | 3.4 | 0 | C | 5.2 | -18 | 310 | 2.1 | -2.2 | -1.5 | 4 | J |
| 527 | 3.0 | 0 | C | 4.9 | -11 | 350 | 4.2 | -0.6 | -0.9 | 2 | J |
| 519 | 2.9 | 0 | C | 3.9 | -40 | 358 | 2.5 | 0.3 | -2.1 | 2 | J |
| 515 | 3.0 | 0 | C | 4.3 | -17 | 4 | 3.7 | 0.5 | -1.1 | 2 | J |
| 544 | 3.5 | 195 | J | 4.9 | -5 | 319 | 3.3 | -2.7 | -1.0 | 2 | J |
| 562 | 3.2 | 180 | J | 2.8 | -27 | 317 | 1.2 | -0.8 | -1.1 | 2 | J |
| 568 | 3.7 | 170 | J | 3.2 | -48 | 287 | 0.4 | -0.8 | -1.9 | 3 | J |
| 596 | 2.7 | 200 | J | 5.0 | -63 | 197 | -1.6 | 0.7 | -3.2 | 4 | J |
| 519 | 2.2 | 189 | J | 4.8 | -1 | 294 | 1.6 | -3.3 | -1.6 | 3 | J |
| 522 | 2.2 | 111 | J | 5.8 | 35 | 32 | 4.0 | 0.7 | 4.0 | 1 | J |
| 525 | 3.3 | 0 | C | 6.1 | 34 | 27 | 4.4 | 0.3 | 4.0 | 0 | J |
| 633 | 2.2 | 125 | J | 5.6 | 52 | 35 | 2.6 | -0.6 | 4.4 | 2 | J |
| 622 | 2.0 | 176 | J | 5.7 | 19 | 322 | 3.0 | -2.7 | -0.2 | 4 | J |
| 566 | 2.1 | 170 | J | 6.7 | -43 | 260 | -0.8 | -1.4 | -6.0 | 3 | J |
| 650 | 2.1 | 176 | J | 6.8 | -35 | 263 | -0.6 | -2.3 | -5.6 | 3 | J |

## APR. 13, 1980

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 633 | 2.3 | 175 | J | 6.5 | 9 | 286 | 1.2 | -4.0 | -1.6 | 5 | J |
| 2 | 641 | 2.1 | 165 | J | 6.4 | -18 | 290 | 1.8 | -3.3 | -3.9 | 3 | J |
| 3 | 601 | 1.7 | 100 | J | 6.6 | 25 | 318 | 4.2 | -4.6 | 0.6 | 2 | J |
| 4 | 594 | 2.2 | 0 | C | 5.9 | 2 | 304 | 2.2 | -3.0 | -1.2 | 4 | J |
| 5 | 627 | 1.0 | 125 | J | 5.0 | 11 | 286 | 1.1 | -3.7 | -0.7 | 3 | J |
| 6 | 632 | 2.1 | 0 | C | 4.8 | -41 | 235 | -1.9 | -1.6 | -3.5 | 2 | J |
| 7 | 659 | 1.2 | 138 | J | 4.4 | -12 | 277 | 0.4 | -2.8 | -1.5 | 3 | J |
| 8 | 617 | 0.9 | 140 | J | 4.3 | -21 | 215 | -1.3 | -0.7 | -0.8 | 4 | J |
| 9 | 567 | 1.5 | 236 | L | 4.9 | 10 | 287 | 1.2 | -4.1 | -0.1 | 2 | J |
| 10 | 550 | 1.6 | 207 | L | 5.3 | 1 | 301 | 2.4 | -4.0 | -0.7 | 2 | J |
| 11 | 470 | 2.4 | 0 | C | 5.5 | 31 | 328 | 3.1 | -2.3 | 1.8 | 3 | J |
| 12 | 478 | 2.5 | 0 | C | 5.6 | 58 | 332 | 2.5 | -2.1 | 4.3 | 2 | J |
| 13 | 531 | 2.2 | 83 | J | 5.4 | 30 | 297 | 1.4 | -3.1 | 1.2 | 4 | J |
| 14 | 490 | 2.3 | 80 | J | 5.7 | 29 | 316 | 3.0 | -3.4 | 1.6 | 3 | J |
| 15 | 489 | 2.3 | 80 | J | 5.5 | 45 | 319 | 2.7 | -3.2 | 2.9 | 2 | J |
| 16 | 492 | 2.7 | 83 | J | 5.3 | 26 | 306 | 2.0 | -3.1 | 0.7 | 4 | J |
| 17 | 504 | 1.6 | 49 | J | 3.8 | 10 | 319 | 1.9 | -1.7 | -0.2 | 3 | J |
| 18 | 500 | 1.6 | 52 | J | 3.6 | -71 | 1 | 1.1 | 1.3 | -2.9 | 1 | J |
| 19 | 513 | 1.8 | 71 | J | 2.8 | -7 | 310 | 1.4 | -1.4 | -1.0 | 2 | J |
| 20 | 507 | 1.7 | 66 | J | 2.8 | -4 | 297 | 1.0 | -1.7 | -1.1 | 2 | J |
| 21 | 507 | 1.7 | 55 | J | 2.9 | 16 | 291 | 0.9 | -2.5 | -0.6 | 1 | J |
| 22 | 490 | 1.7 | 78 | J | 2.9 | 10 | 325 | 2.3 | -1.6 | -0.4 | 1 | J |
| 23 | 486 | 1.4 | 72 | J | 2.7 | 13 | 327 | 2.1 | -1.5 | -0.3 | 1 | J |
| 24 | 485 | 1.5 | 59 | J | 2.8 | 31 | 306 | 1.4 | -2.3 | 0.2 | 1 | J |

## APR. 14, 1980

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 473 | 1.9 | 47 | J | 2.5 | 14 | 321 | 1.7 | -1.5 | -0.3 | 1 | J |
| 332 | 4.5 | 0 | C | 2.4 | -23 | 342 | 2.1 | -0.1 | -1.2 | 0 | J |
| 460 | 1.2 | 50 | J | 1.9 | -79 | 326 | 0.3 | 0.6 | -1.5 | 1 | J |
| 443 | 1.8 | 58 | L | 2.6 | -50 | 119 | -0.7 | 1.9 | -1.1 | 1 | J |
| 465 | 2.0 | 38 | J | 2.7 | -21 | 250 | -0.7 | -1.6 | -1.5 | 1 | J |
| 454 | 1.8 | 35 | J | 2.5 | -68 | 217 | -0.7 | 0.2 | -2.2 | 1 | J |
| 451 | 1.9 | 35 | J | 2.4 | -57 | 220 | -0.8 | -0.2 | -1.6 | 2 | J |
| 448 | 1.9 | 34 | J | 2.0 | -34 | 267 | -0.1 | -1.1 | -1.3 | 1 | J |
| 443 | 1.9 | 36 | J | 2.1 | 4 | 273 | 0.1 | -2.0 | -0.3 | 1 | J |
| 436 | 2.0 | 43 | J | 2.3 | -13 | 299 | 1.0 | -1.7 | -0.8 | 1 | J |
| 439 | 1.8 | 38 | J | 2.3 | 6 | 273 | 0.1 | -2.1 | -0.1 | 1 | J |
| 347 | 4.8 | 0 | C | 2.3 | 3 | 292 | 0.8 | -1.9 | -0.2 | 1 | J |
| 417 | 2.8 | 40 | J | 2.5 | 1 | 304 | 1.3 | -2.0 | -0.3 | 1 | J |
| 437 | 2.6 | 41 | J | 2.6 | -4 | 283 | 0.6 | -2.3 | -0.7 | 1 | J |
| 438 | 2.1 | 48 | J | 3.2 | -13 | 276 | 0.3 | -2.7 | -1.4 | 1 | J |
| 436 | 2.6 | 50 | J | 3.1 | -12 | 267 | -0.2 | -2.6 | -1.5 | 1 | J |
| 417 | 5.4 | 29 | J | 2.8 | -40 | 243 | -0.8 | -0.9 | -1.9 | 2 | J |
| 417 | 7.2 | 26 | J | 2.9 | -44 | 238 | -0.8 | -0.6 | -1.9 | 2 | J |
| 417 | 8.1 | 28 | J | 4.5 | -59 | 213 | -1.8 | 0.6 | -3.7 | 2 | J |
| 413 | 7.1 | 26 | J | 5.8 | -55 | 172 | -3.0 | 2.5 | -3.6 | 2 | J |
| 414 | 9.3 | 25 | J | 6.0 | -44 | 119 | -2.0 | 5.2 | -1.5 | 1 | J |
| 414 | 14.5 | 24 | J | 5.7 | -72 | 174 | -1.4 | 2.5 | -3.7 | 3 | J |
| 418 | 9.3 | 38 | J | 7.7 | -66 | 236 | -1.2 | 1.1 | -4.9 | 6 | J |
| 422 | 8.2 | 48 | J | 7.3 | -60 | 211 | -2.4 | 1.4 | -5.0 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 9.0 | 120 | J | 6.1 | -27 | 264 | -0.2 | -0.9 | -1.5 | 6 | J | 413 | 5.9 | 0 | C | 3.2 | 43 | 241 | -0.9 | -2.2 | 0.6 | 2 | C |
| 2 | 441 | 8.9 | 124 | J | 7.8 | -74 | 322 | 1.5 | 2.2 | -6.3 | 4 | J | 416 | 5.6 | 0 | C | 3.1 | 22 | 308 | 1.2 | -1.7 | -0.1 | 2 | C |
| 3 | 445 | 8.6 | 167 | J | 6.5 | -51 | 281 | 0.7 | -1.1 | -5.4 | 4 | J | | | | | | | | | | | | |
| 4 | 452 | 8.4 | 250 | J | 5.6 | -31 | 53 | 1.8 | 2.9 | -0.6 | 5 | J | | | | | | | | | | | | |
| 5 | 456 | 7.3 | 215 | J | 4.9 | -36 | 340 | 2.6 | -0.1 | -2.2 | 4 | J | | | | | | | | | | | | |
| 6 | 447 | 7.0 | 221 | J | 5.9 | -15 | 334 | 4.0 | -1.5 | -1.8 | 4 | J | | | | | | | | | | | | |
| 7 | 455 | 7.0 | 181 | J | 7.0 | 2 | 301 | 2.7 | -4.3 | -1.1 | 5 | J | 434 | 6.3 | 0 | C | 4.7 | -40 | 354 | 2.9 | 0.4 | -2.4 | 2 | C |
| 8 | 460 | 6.8 | 151 | J | 6.3 | 29 | 258 | -0.9 | -4.9 | 1.4 | 4 | J | 434 | 6.3 | 0 | C | 4.2 | -19 | 9 | 3.2 | 0.7 | -1.0 | 2 | C |
| 9 | 439 | 6.2 | 182 | J | 6.5 | 10 | 299 | 3.0 | -5.4 | -0.0 | 2 | J | 423 | 7.2 | 0 | C | 4.9 | 28 | 356 | 4.0 | -0.7 | 2.0 | 2 | C |
| 10 | 436 | 6.4 | 179 | J | 6.7 | 14 | 298 | 2.8 | -5.5 | 0.5 | 2 | J | 423 | 7.1 | 0 | C | 4.1 | 3 | 333 | 2.8 | -1.4 | -0.1 | 3 | C |
| 11 | 424 | 5.9 | 81 | J | 7.4 | 34 | 301 | 3.0 | -5.6 | 3.0 | 2 | J | 422 | 7.2 | 0 | C | 3.8 | -8 | 330 | 2.6 | -1.4 | -0.7 | 2 | C |
| 12 | 420 | 6.2 | 102 | J | 7.5 | 26 | 300 | 3.3 | -6.1 | 2.2 | 2 | J | 421 | 6.7 | 0 | C | 3.8 | -3 | 288 | 0.9 | -2.7 | -0.6 | 2 | C |
| 13 | 418 | 8.7 | 0 | C | 6.3 | 48 | 317 | 2.6 | -3.1 | 3.4 | 2 | J | 430 | 6.6 | 0 | C | 4.2 | 12 | 260 | -0.7 | -3.8 | 0.1 | 1 | C |
| 14 | 412 | 8.8 | 0 | C | 6.3 | 41 | 311 | 1.8 | -2.6 | 1.9 | 2 | C | 424 | 6.4 | 0 | C | 4.6 | -9 | 256 | -1.1 | -4.1 | -1.6 | 1 | C |
| 15 | 419 | 8.9 | 0 | C | 6.7 | 21 | 309 | 3.5 | -4.8 | 1.0 | 5 | J | 423 | 6.1 | 0 | C | 4.7 | -2 | 269 | -0.0 | -3.9 | -1.2 | 2 | C |
| 16 | 423 | 9.2 | 0 | C | 6.9 | -20 | 273 | 0.3 | -4.8 | -3.7 | 3 | J | 427 | 6.3 | 0 | C | 4.7 | 8 | 241 | -2.1 | -3.8 | -0.5 | 2 | C |
| 17 | 415 | 8.4 | 0 | C | 7.1 | -26 | 274 | 0.4 | -4.2 | -4.5 | 3 | C | 424 | 7.2 | 0 | C | 4.8 | -28 | 260 | -0.5 | -2.2 | -2.5 | 3 | C |
| 18 | 418 | 8.7 | 0 | C | 6.3 | -37 | 281 | 0.7 | -2.3 | -4.2 | 3 | C | 413 | 7.1 | 0 | C | 4.7 | 4 | 283 | 0.9 | -3.5 | -1.3 | 2 | C |
| 19 | 419 | 9.0 | 0 | C | 6.1 | -48 | 282 | 0.8 | -1.4 | -5.2 | 3 | C | 405 | 6.9 | 0 | C | 4.4 | 16 | 281 | 0.8 | -3.9 | -0.7 | 1 | C |
| 20 | 409 | 8.8 | 0 | C | 6.6 | 20 | 279 | 0.7 | -5.0 | -0.8 | 2 | C | 407 | 6.9 | 0 | C | 4.7 | 48 | 270 | -0.0 | -4.1 | 1.4 | 1 | C |
| 21 | 404 | 8.6 | 0 | C | 6.1 | -13 | 273 | 0.2 | -2.6 | -2.6 | 4 | C | 417 | 6.4 | 0 | C | 4.7 | 52 | 255 | -0.7 | -4.0 | 1.6 | 1 | C |
| 22 | 413 | 8.3 | 0 | C | 5.6 | -5 | 257 | -1.0 | -3.6 | -2.8 | 5 | C | 417 | 7.0 | 0 | C | 4.0 | 46 | 316 | 0.4 | -0.6 | 0.3 | 4 | C |
| 23 | 408 | 8.7 | 0 | C | 5.3 | 11 | 333 | 3.8 | -2.1 | -0.3 | 3 | C | 421 | 7.5 | 0 | C | 4.0 | -19 | 132 | -0.3 | 0.4 | 0.1 | 4 | C |
| 24 | 412 | 6.9 | 0 | C | 3.8 | -22 | 248 | -0.8 | -1.3 | -1.9 | 3 | C | 410 | 6.7 | 0 | C | 4.2 | -40 | 323 | 2.0 | -0.1 | -2.6 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 422 | 7.1 | 0 | C | 3.5 | -10 | 325 | 2.0 | -0.9 | -1.1 | 2 | C | 378 | 5.9 | 0 | C | 2.3 | 33 | 227 | -1.1 | -1.5 | 0.3 | 1 | C |
| 2 | 421 | 7.4 | 0 | C | 3.9 | -34 | 316 | 1.9 | -0.7 | -2.4 | 2 | C | 374 | 6.1 | 0 | C | 1.9 | -11 | 225 | -0.9 | -0.7 | -0.7 | 1 | C |
| 3 | 416 | 6.6 | 0 | C | 4.6 | -52 | 295 | 1.1 | -0.6 | -4.2 | 1 | C | 368 | 6.3 | 0 | C | 3.4 | -13 | 252 | -0.9 | -2.3 | -1.9 | 1 | C |
| 4 | 416 | 6.6 | 0 | C | 4.9 | -38 | 282 | 0.7 | -2.1 | -4.1 | 2 | C | 369 | 6.8 | 0 | C | 2.6 | 56 | 255 | -0.3 | -1.8 | 1.2 | 2 | C |
| 5 | 377 | 6.5 | 0 | C | 4.1 | 19 | 259 | -0.7 | -3.9 | -0.1 | 1 | C | 357 | 7.0 | 0 | C | 2.3 | 32 | 190 | -1.9 | -0.7 | 1.0 | 1 | C |
| 6 | 409 | 6.5 | 0 | C | 4.2 | 23 | 257 | -0.6 | -2.5 | 0.2 | 3 | C | 357 | 6.6 | 0 | C | 2.4 | -3 | 191 | -2.1 | -0.4 | -0.2 | 1 | C |
| 7 | 411 | 6.8 | 0 | C | 3.7 | -6 | 311 | 1.9 | -2.0 | -0.9 | 2 | C | 365 | 6.0 | 0 | C | 2.0 | -68 | 191 | -0.3 | 0.2 | -0.8 | 2 | C |
| 8 | 412 | 6.4 | 0 | C | 4.3 | 13 | 271 | 0.1 | -3.9 | -0.0 | 2 | C | 363 | 6.1 | 0 | C | 2.4 | -30 | 12 | 2.0 | 0.7 | -1.0 | 1 | C |
| 9 | 412 | 5.8 | 0 | C | 4.1 | 31 | 250 | -1.0 | -3.1 | 1.2 | 2 | C | 358 | 6.4 | 0 | C | 2.1 | -25 | 352 | 1.6 | -0.1 | -0.8 | 1 | C |
| 10 | 417 | 6.2 | 0 | C | 3.4 | 44 | 194 | -1.7 | -0.7 | 1.6 | 2 | C | 357 | 6.4 | 0 | C | 1.7 | -39 | 340 | 1.0 | -0.2 | -0.9 | 1 | C |
| 11 | 405 | 6.6 | 0 | C | 3.2 | 54 | 169 | -1.3 | -0.0 | 1.8 | 2 | C | 350 | 6.3 | 0 | C | 2.1 | -40 | 353 | 1.5 | 0.0 | -1.3 | 1 | C |
| 12 | 397 | 5.9 | 0 | C | 1.9 | 15 | 147 | -1.1 | 0.7 | 0.5 | 1 | C | 348 | 6.1 | 0 | C | 1.7 | -28 | 343 | 1.3 | -0.3 | -0.8 | 1 | C |
| 13 | 390 | 5.3 | 0 | C | 3.7 | 17 | 208 | -3.0 | -1.8 | 0.8 | 1 | C | 342 | 6.2 | 0 | C | 1.4 | -19 | 331 | 0.9 | -0.4 | -0.4 | 1 | C |
| 14 | 378 | 5.6 | 0 | C | 5.1 | 21 | 214 | -3.9 | -3.0 | 1.2 | 1 | C | 338 | 6.3 | 0 | C | 1.1 | 21 | 257 | -0.2 | -0.7 | 0.1 | 1 | C |
| 15 | 378 | 6.1 | 0 | C | 5.4 | 9 | 212 | -4.4 | -2.9 | 0.1 | 1 | C | 339 | 6.5 | 0 | C | 1.5 | 0 | 335 | 1.0 | -0.5 | -0.1 | 1 | C |
| 16 | 383 | 7.1 | 0 | C | 4.7 | 38 | 223 | -2.5 | -3.0 | 1.9 | 2 | C | 334 | 6.8 | 0 | C | 1.8 | -21 | 338 | 1.5 | -0.4 | -0.8 | 1 | C |
| 17 | 377 | 6.1 | 0 | C | 5.2 | 27 | 237 | -2.5 | -4.3 | 0.9 | 1 | C | 337 | 6.8 | 0 | C | 2.1 | 7 | 272 | 0.1 | -1.9 | -0.5 | 1 | C |
| 18 | 380 | 5.6 | 0 | C | 4.7 | 35 | 226 | -2.0 | -2.7 | 1.0 | 3 | C | 335 | 6.6 | 0 | C | 1.6 | 19 | 227 | -0.8 | -0.9 | 0.0 | 1 | C |
| 19 | 403 | 5.6 | 0 | C | 4.4 | 10 | 233 | -2.4 | -3.1 | -0.7 | 2 | C | 333 | 6.7 | 0 | C | 1.6 | -11 | 233 | -0.9 | -0.9 | -0.8 | 0 | C |
| 20 | 400 | 5.7 | 0 | C | 4.0 | 20 | 239 | -1.5 | -2.7 | -0.3 | 2 | C | 334 | 6.9 | 0 | C | 2.0 | -5 | 221 | -1.4 | -1.0 | -0.7 | 1 | C |
| 21 | 396 | 6.1 | 0 | C | 3.8 | 9 | 266 | -0.2 | -2.6 | -1.0 | 2 | C | 334 | 7.2 | 0 | C | 2.3 | -27 | 229 | -1.3 | -0.8 | -1.6 | 1 | C |
| 22 | 377 | 6.1 | 0 | C | 3.8 | -13 | 344 | 3.5 | -0.4 | -1.3 | 1 | C | 334 | 7.2 | 0 | C | 2.4 | 6 | 207 | -1.9 | -1.0 | -0.3 | 1 | C |
| 23 | 393 | 6.2 | 0 | C | 3.2 | -19 | 339 | 2.7 | -0.3 | -1.4 | 1 | C | 335 | 7.4 | 0 | C | 2.2 | 11 | 205 | -1.6 | -0.8 | -0.1 | 1 | C |
| 24 | 385 | 6.1 | 0 | C | 3.2 | 6 | 319 | 2.3 | -1.9 | -0.8 | 1 | C | 336 | 7.5 | 0 | C | 2.0 | -10 | 229 | -1.2 | -1.0 | -1.1 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 326 | 7.7 | 0 | C | 2.1 | 19 | 251 | -0.6 | -1.9 | -0.4 | 1 | C | 301 | 12.7 | 0 | C | 5.4 | -20 | 327 | 4.1 | -1.4 | -2.9 | 1 | C |
| 2 | 329 | 8.6 | 0 | C | 2.3 | 54 | 336 | 0.7 | -0.8 | 0.8 | 2 | C | 307 | 11.2 | 0 | C | 5.4 | -16 | 346 | 4.9 | -0.4 | -1.9 | 1 | C |
| 3 | 327 | 8.7 | 0 | C | 2.9 | 30 | 43 | 1.6 | 0.7 | 1.8 | 1 | C | 318 | 11.0 | 0 | C | 5.6 | -55 | 30 | 2.5 | 3.2 | -3.0 | 2 | C |
| 4 | 337 | 9.3 | 0 | C | 3.3 | -12 | 42 | 1.8 | 1.7 | 0.2 | 2 | C | 324 | 12.2 | 0 | C | 4.8 | -47 | 124 | -1.5 | 3.2 | -1.7 | 2 | C |
| 5 | 337 | 9.6 | 0 | C | 4.0 | -11 | 47 | 2.5 | 2.7 | 0.3 | 1 | C | 310 | 10.5 | 0 | C | 3.8 | 4 | 357 | 0.6 | -0.0 | 0.0 | 3 | C |
| 6 | 314 | 9.2 | 0 | C | 5.8 | -16 | 5 | 5.3 | 0.9 | -1.4 | 2 | C | 326 | 8.2 | 0 | C | 5.0 | 12 | 322 | 3.8 | -3.2 | 0.1 | 1 | C |
| 7 | 313 | 9.0 | 0 | C | 5.5 | -16 | 331 | 3.9 | -1.7 | -1.8 | 3 | C | 322 | 8.1 | 0 | C | 5.1 | 1 | 337 | 4.6 | -1.9 | -0.4 | 1 | C |
| 8 | 331 | 10.3 | 0 | C | 4.6 | -36 | 45 | 2.6 | 3.1 | -2.0 | 1 | C | 320 | 8.2 | 0 | C | 4.9 | 3 | 330 | 4.2 | -2.4 | -0.3 | 1 | C |
| 9 | 335 | 12.2 | 0 | C | 3.9 | -42 | 5 | 2.7 | 0.7 | -2.4 | 1 | C | 327 | 8.2 | 0 | C | 4.7 | 9 | 325 | 3.6 | -2.7 | 0.2 | 1 | C |
| 10 | 333 | 12.9 | 0 | C | 4.2 | -25 | 20 | 2.7 | 1.2 | -1.2 | 3 | C | 325 | 8.8 | 0 | C | 5.0 | 38 | 279 | 0.5 | -3.7 | 2.1 | 3 | C |
| 11 | 334 | 12.7 | 0 | C | 4.8 | -18 | 54 | 2.6 | 3.7 | -0.9 | 1 | C | 322 | 8.1 | 0 | C | 5.7 | 7 | 290 | 1.8 | -5.0 | -0.1 | 2 | C |
| 12 | 334 | 12.7 | 0 | C | 5.0 | -4 | 41 | 3.6 | 3.1 | 0.1 | 1 | C | 316 | 8.3 | 0 | C | 5.6 | 5 | 270 | -0.0 | -5.2 | -0.4 | 2 | C |
| 13 | 334 | 13.0 | 0 | C | 5.5 | -26 | 38 | 3.8 | 3.3 | -1.8 | 1 | C | 311 | 8.2 | 0 | C | 5.6 | 4 | 300 | 2.8 | -4.8 | -0.4 | 1 | C |
| 14 | 332 | 13.3 | 0 | C | 5.6 | -6 | 38 | 4.3 | 3.4 | 0.1 | 1 | C | 302 | 8.8 | 0 | C | 5.2 | -1 | 288 | 1.5 | -4.8 | -1.1 | 1 | C |
| 15 | 337 | 14.3 | 0 | C | 4.3 | -4 | 359 | 4.0 | -0.0 | -0.3 | 2 | C | 306 | 8.2 | 0 | C | 5.2 | 31 | 283 | 1.0 | -4.7 | 1.5 | 1 | C |
| 16 | 338 | 14.4 | 0 | C | 3.7 | 13 | 311 | 2.2 | -2.6 | -0.0 | 1 | C | 312 | 9.3 | 0 | C | 5.7 | 59 | 309 | 1.7 | -3.4 | 3.9 | 2 | C |
| 17 | 327 | 14.2 | 0 | C | 4.2 | -12 | 325 | 3.1 | -1.7 | -1.5 | 2 | C | 316 | 10.2 | 0 | C | 6.5 | 11 | 315 | 4.4 | -4.5 | -0.4 | 2 | C |
| 18 | 318 | 13.1 | 0 | C | 5.6 | 4 | 303 | 2.7 | -3.9 | -1.3 | 3 | C | 306 | 10.7 | 0 | C | 6.4 | -15 | 307 | 3.6 | -3.8 | -3.3 | 1 | C |
| 19 | 314 | 13.8 | 0 | C | 6.7 | 4 | 291 | 2.3 | -5.5 | -2.3 | 1 | C | 312 | 10.1 | 0 | C | 6.1 | -19 | 308 | 3.5 | -3.2 | -3.7 | 1 | C |
| 20 | 315 | 14.2 | 0 | C | 7.0 | 21 | 264 | -0.7 | -6.5 | -0.9 | 2 | C | 316 | 9.7 | 0 | C | 6.3 | -41 | 345 | 4.5 | 0.8 | -4.1 | 2 | C |
| 21 | 312 | 14.0 | 0 | C | 6.7 | 20 | 268 | -0.3 | -6.5 | -1.2 | 1 | C | 314 | 9.2 | 0 | C | 6.5 | -37 | 341 | 4.8 | 0.5 | -4.1 | 1 | C |
| 22 | 309 | 13.4 | 0 | C | 6.5 | 39 | 267 | -0.2 | -6.3 | 0.8 | 1 | C | 320 | 8.8 | 0 | C | 6.5 | -36 | 351 | 5.0 | 1.3 | -3.6 | 1 | C |
| 23 | 308 | 13.0 | 0 | C | 5.7 | 46 | 266 | -0.2 | -5.3 | 1.3 | 1 | C | 331 | 9.8 | 0 | C | 6.3 | -42 | 350 | 4.6 | 1.6 | -4.0 | 1 | C |
| 24 | 301 | 12.3 | 0 | C | 5.3 | -21 | 329 | 3.9 | -1.1 | -2.7 | 2 | C | 356 | 15.1 | 0 | C | 4.7 | -37 | 351 | 3.6 | 1.0 | -2.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 350 | 16.1 | 0 | C | 5.0 | -30 | 358 | 4.3 | 1.2 | -2.3 | 0 | C | 294 | 20.5 | 11 | J | 2.9 | -26 | 346 | 2.4 | 0.1 | -1.4 | 0 | J |
| 2 | 350 | 16.6 | 0 | C | 4.8 | -25 | 359 | 4.3 | 0.9 | -1.8 | 0 | C | 298 | 46.4 | 0 | C | 6.0 | -28 | 319 | 3.6 | -1.6 | -3.7 | 3 | C |
| 3 | 348 | 18.1 | 0 | C | 3.7 | -25 | 9 | 3.3 | 1.2 | -1.1 | 1 | C | 321 | 50.6 | 0 | C | 6.3 | 55 | 296 | 1.4 | -4.6 | 2.9 | 3 | C |
| 4 | 345 | 18.2 | 0 | C | 3.4 | -15 | 11 | 3.2 | 0.9 | -0.6 | 0 | C | 330 | 49.0 | 0 | C | 7.5 | 69 | 38 | 1.9 | -1.2 | 6.5 | 3 | C |
| 5 | 342 | 14.6 | 18 | L | 3.2 | -9 | 9 | 3.1 | 0.7 | -0.3 | 0 | C | 322 | 26.3 | 0 | C | 11.5 | 52 | 52 | 4.3 | 2.0 | 10.3 | 2 | C |
| 6 | 340 | 12.5 | 14 | L | 3.6 | -9 | 6 | 3.5 | 0.5 | -0.4 | 0 | J | 328 | 18.4 | 0 | C | 12.1 | 50 | 50 | 5.0 | 3.0 | 10.5 | 1 | C |
| 7 | 336 | 18.1 | 14 | J | 3.6 | -8 | 5 | 3.6 | 0.4 | -0.4 | 0 | J | 309 | 24.1 | 10 | J | 11.1 | 42 | 50 | 5.3 | 4.2 | 8.8 | 1 | J |
| 8 | 334 | 18.9 | 12 | J | 3.8 | -8 | 0 | 3.8 | 0.1 | -0.5 | 1 | J | 305 | 20.8 | 10 | J | 9.5 | 28 | 52 | 5.2 | 5.5 | 5.8 | 1 | J |
| 9 | 332 | 17.9 | 12 | J | 4.1 | -8 | 351 | 3.9 | -0.5 | -0.7 | 1 | J | 305 | 17.9 | 10 | J | 9.2 | 23 | 47 | 5.8 | 5.5 | 4.6 | 1 | J |
| 10 | 335 | 13.2 | 17 | J | 3.2 | -1 | 343 | 2.7 | -0.8 | -0.2 | 1 | J | 309 | 19.7 | 23 | J | 5.5 | 18 | 41 | 3.7 | 2.9 | 2.0 | 3 | J |
| 11 | 298 | 12.5 | 0 | C | 3.8 | -6 | 337 | 3.5 | -1.4 | -0.6 | 0 | C | 308 | 17.5 | 17 | J | 7.4 | 17 | 54 | 3.6 | 4.7 | 2.6 | 4 | J |
| 12 | 297 | 14.4 | 0 | C | 3.8 | -9 | 335 | 3.4 | -1.5 | -0.6 | 0 | C | 319 | 19.7 | 27 | J | 5.5 | -1 | 351 | 1.9 | -0.3 | -0.1 | 5 | J |
| 13 | 316 | 14.5 | 13 | J | 3.1 | -17 | 342 | 2.5 | -0.7 | -0.9 | 1 | J | 328 | 17.8 | 27 | J | 4.9 | -27 | 297 | 0.8 | -1.5 | -1.2 | 5 | J |
| 14 | 314 | 14.4 | 12 | J | 3.4 | -15 | 343 | 2.9 | -0.7 | -1.0 | 1 | J | 326 | 13.2 | 29 | J | 6.0 | -10 | 293 | 2.1 | -4.7 | -1.9 | 2 | J |
| 15 | 315 | 15.0 | 12 | J | 3.6 | -16 | 336 | 2.8 | -1.0 | -1.2 | 1 | J | 320 | 12.3 | 0 | C | 6.5 | -7 | 271 | 0.2 | -5.9 | -2.2 | 1 | C |
| 16 | 312 | 14.7 | 15 | J | 3.8 | -12 | 334 | 3.1 | -1.2 | -1.1 | 1 | J | 329 | 19.3 | 25 | J | 5.7 | -11 | 306 | 3.2 | -3.9 | -2.2 | 1 | J |
| 17 | 311 | 15.9 | 13 | J | 3.2 | -11 | 336 | 2.6 | -0.9 | -0.9 | 1 | J | 328 | 19.9 | 29 | J | 5.5 | -21 | 297 | 2.2 | -3.5 | -3.2 | 2 | J |
| 18 | 306 | 21.0 | 12 | J | 2.2 | -26 | 345 | 1.6 | -0.1 | -0.9 | 1 | J | 339 | 21.2 | 26 | J | 5.1 | -8 | 304 | 2.8 | -3.6 | -2.3 | 1 | J |
| 19 | 306 | 19.5 | 14 | J | 1.9 | -39 | 336 | 1.1 | -0.0 | -1.1 | 1 | J | 332 | 19.5 | 24 | J | 5.9 | 0 | 313 | 4.0 | -3.9 | -1.9 | 1 | J |
| 20 | 304 | 19.3 | 11 | J | 2.4 | -28 | 343 | 1.9 | -0.0 | -1.2 | 1 | J | 331 | 24.0 | 18 | J | 5.7 | -2 | 308 | 3.4 | -3.8 | -2.3 | 1 | J |
| 21 | 304 | 19.1 | 10 | J | 2.5 | -34 | 340 | 1.8 | 0.1 | -1.4 | 1 | J | 334 | 26.0 | 13 | J | 5.9 | 7 | 318 | 4.4 | -3.8 | -1.3 | 1 | J |
| 22 | 298 | 19.6 | 11 | J | 2.6 | -31 | 339 | 1.9 | 0.0 | -1.4 | 1 | J | 324 | 22.3 | 19 | J | 5.8 | 3 | 314 | 4.0 | -3.7 | -1.9 | 1 | J |
| 23 | 296 | 18.7 | 11 | J | 2.6 | -22 | 347 | 2.2 | 0.0 | -1.0 | 1 | J | 320 | 24.6 | 17 | J | 5.5 | 0 | 317 | 3.9 | -3.1 | -1.9 | 1 | J |
| 24 | 293 | 19.2 | 11 | J | 3.0 | -22 | 346 | 2.5 | 0.0 | -1.2 | 1 | J | 319 | 29.8 | 18 | J | 4.5 | -3 | 318 | 3.3 | -2.4 | -1.7 | 1 | J |

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04/23/80 – 04/30/80

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HR    VEL  DEN TEMP/ PLS   AV B  GSE  GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC   MAGN  LAT  LON                        SC
                                                                114
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 1    317 33.9   19   J    3.7   21    7   3.2  -0.3   1.3  1  J
 2    314 31.9   22   J    3.5   22   33   2.4   0.8   1.8  2  J
 3    312 30.1   20   J    5.1   42   13   3.0  -0.6   2.8  3  J
 4    319 32.3   20   J    5.0   43   57   1.9   1.5   4.3  1  J
 5    319 30.2   19   J    4.3   35   73   0.7   1.6   2.4  3  J
 6    314 29.4   14   J    5.3   45    5   3.6  -0.8   3.5  2  J
 7    316 29.9   15   J    5.7   40   15   4.1   0.2   3.8  1  J
 8    323 16.7   22   J    5.7   21  120  -2.5   3.8   2.7  2  J
 9    323 16.1   17   J    6.4    7  142  -4.9   3.6   1.4  2  J
10    322 14.4   18   J    7.4   13  124  -3.9   5.5   2.5  2  J
11    319 17.5   27   J    6.0   48   56   2.0   2.4   4.4  3  J
12    321 19.2   31   J    5.3   38   86   0.2   2.6   2.7  4  J
13    332 15.6   25   J    6.1  -12  149  -4.8   3.0  -0.7  2  J
14    332 18.9   22   J    4.9   32  122  -1.2   1.6   1.8  4  J
15    340 16.8   20   J    5.0   36  349   3.8  -1.4   2.6  2  J
16    332 15.2   24   J    6.2   17  320   4.4  -4.0   0.7  2  J
17    310 12.1    0   C    6.9    8  310   4.4  -5.3  -0.8  1  C
18    317  7.5   30   L    7.0   14  331   5.9  -3.6   0.3  1  J
19    318  9.6   29   J    6.8   14  326   5.5  -4.0  -0.1  1  J
20    317  9.4   28   J    6.5   11  318   4.7  -4.3  -0.9  1  J
21    308 10.2    0   C    6.3    5  318   4.6  -3.9  -1.6  1  C
22    309 10.1    0   C    6.1    5  313   3.9  -3.9  -1.7  2  C
23    312  9.3    0   C    6.1    0  331   3.1  -4.4  -2.7  1  C
24    319  9.4    0   C    6.1   -4  308   3.8  -3.9  -2.8  0  C
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VEL  DEN TEMP/ PLS   AV B  GSE  GSE BXGSM BYGSM BZGSM SG IMF
         1000  SC    MAGN  LAT  LON                        SC
                                                          115
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313  9.4    0   C    6.2   -9  306   3.5  -3.8  -3.3  1  C
313  8.9    0   C    6.2   -7  304   3.4  -4.1  -3.0  1  C
315  9.8    0   C    5.7  -13  301   2.7  -3.6  -3.1  1  C
315 10.0    0   C    5.3  -32  309   2.4  -1.9  -3.4  2  C

310  8.9    0   C    5.2  -12  294   2.0  -4.1  -2.3  1  C
311  5.7    0   C    4.5  -26  285   1.0  -3.2  -2.8  1  J
315  8.6   29   J    4.6  -17  303   2.3  -3.3  -2.0  1  J
319  9.0   25   J    4.3  -30  286   1.0  -3.0  -2.6  2  J
321  9.3   23   J    4.5  -31  296   1.6  -3.0  -2.7  1  J
323  8.9   23   J    4.7   -6  283   1.0  -4.4  -1.1  1  J
318  9.6   22   J    4.7  -18  290   1.5  -3.9  -2.0  1  J
316  9.2   17   J    4.8  -14  278   0.6  -4.2  -1.8  1  J
310  9.6   22   J    4.4  -32  299   1.7  -2.7  -2.8  2  J
308  9.7   22   J    4.5  -46  307   1.8  -1.6  -3.5  1  J
307  9.5   16   J    4.7  -32  291   1.4  -2.8  -3.3  1  J
303 10.3   14   J    4.4   -2  310   2.8  -3.1  -1.2  1  J
299 12.1    0   C    4.4  -12  300   1.9  -2.7  -1.9  2  C
293  9.0   23   J    3.8  -10    8   3.6   0.7  -0.4  1  J
297 10.3   22   J    4.3  -14    1   3.9   0.5  -0.8  1  J
294 11.7   23   J    4.6  -18    0   4.2   0.7  -1.2  1  J
296 12.6   24   J    4.4   -9  337   3.9  -1.1  -1.4  1  J
300 14.4   19   J    4.4  -19  349   3.7   0.1  -1.5  2  J
299 15.2   18   J    5.0  -40  352   3.8   1.2  -3.0  1  J
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                                                                116
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 1    297 14.6   20   J    5.3  -45  349   3.6   1.2  -3.5  1  J
 2    297 14.1   27   J    4.9  -23    3   4.3   1.1  -1.5  1  J
 3    310 20.2   27   J    6.4  -55   22   3.2   3.3  -3.9  2  J
 4    308 22.8   30   J    7.6  -35   11   4.8   2.2  -2.8  5  J
 5    316 25.9   43   J    7.2  -33  312   3.6  -2.6  -4.7  3  J
 6    311 26.3   46   J    8.2    8  336   7.2  -3.4   0.1  2  J
 7    310 23.7   32   J    7.7   24  317   4.5  -4.8   1.7  4  J
 8    308 20.9    0   C    7.6   46  306   2.6  -4.4   3.8  4  C
 9    296 24.1    0   C    7.3   70  323   1.9  -2.5   6.2  2  C
10    307 18.2   23   J    7.7  -73  271   0.0  -1.1  -7.2  2  J
11    310 19.2   28   J    7.0  -83  251  -0.3   0.1  -6.9  1  J
12    307 20.2   23   J    5.6  -71   22   1.4   1.2  -4.3  3  J
13    308 26.7   30   J    3.3   44   25   1.5   0.5   1.7  3  J
14    309 16.3   48   J    8.2   53   36   3.6   1.5   6.3  4  J
15    307 17.3   36   J    4.8   40   25   1.9   0.5   1.9  4  J
16    313 14.6   31   J    6.6   77  292   0.4  -2.1   4.1  5  J
17    308 16.6    0   C    6.5   58  162  -2.3  -0.5   3.9  4  C
18    319 11.2   45   J    5.0   47  101  -0.6   1.6   4.2  2  J
19    315  9.5   40   J    5.4   45  113  -1.1   1.1   3.5  4  J
20    308  8.3   36   J    5.9   15  140  -4.1   2.4   2.8  2  J
21    305  9.9    0   C    6.3   33  110  -1.6   2.3   4.9  3  C
22    320  8.5   45   J    6.6    0  123  -3.2   4.2   2.5  3  J
23    317  8.1   40   J    6.7    3  137  -4.2   3.2   2.3  4  J
24    332  8.7   26   J    7.3   53  121  -2.0   0.3   6.3  3  J
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                                                          117
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333  8.7   26   J    7.2   33  116  -2.5   2.7   5.8  2  J
324  8.3   29   J    7.1    2  123  -3.5   4.7   2.7  3  J
337  7.7   25   J    6.4  -52  132  -2.3   4.1  -2.9  3  J
333  7.9   31   J    6.0  -42  135  -2.8   3.9  -2.2  3  J
341  7.5   29   J    5.8  -64  123  -1.2   3.4  -3.8  3  J
310  6.4   28   J    5.9   -1  151  -4.9   2.6   0.7  2  J
322  6.7   28   J    5.8   27  133  -3.3   2.9   3.3  2  J
317  7.6   41   J    6.0   16  147  -4.7   2.7   2.2  1  J
310  6.6   20   J    6.3   14  156  -5.1   2.0   1.7  3  J
320  7.5   29   J    6.6   40  148  -4.2   2.0   4.4  2  J
307  6.8   22   J    6.6   11  151  -5.6   2.9   1.6  1  J
309  7.1   26   J    6.5   11  151  -5.4   2.8   1.6  1  J
331  8.1   31   J    6.1  -15  124  -2.6   4.0  -0.7  4  J
337  9.0   38   J    5.7  -44  113  -1.1   3.0  -2.2  4  J
326  7.7   36   J    6.4    8  137  -4.1   3.6   1.6  3  J
319  7.8   39   J    6.9   19  132  -4.2   3.9   3.3  2  J
316  8.5   46   J    7.0    7  136  -4.6   4.0   2.2  3  J
333  7.8   21   J    7.1  -13  130  -4.1   5.1   0.5  3  J
335  8.0   20   J    7.0    4  131  -4.4   4.4   2.5  2  J
344  8.5   29   J    6.5   21  114  -2.1   3.3   4.0  3  J
341  8.2   31   J    6.4   -9  130  -3.3   3.8   1.2  4  J
327  7.9   33   J    6.5  -12  147  -4.7   3.2   0.5  3  J
332  8.5   22   J    6.9   32  130  -3.7   1.9   5.3  2  J
330  8.4   19   J    6.9   48  133  -3.0   0.3   5.9  2  J
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                                                                118
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 1    328  7.9   22   J    6.8   41  133  -3.4   1.1   5.6  2  J
 2    330  7.7   20   J    6.8   26  126  -3.5   3.0   4.8  1  J
 3    340  7.4   27   J    6.1    4  125  -3.3   4.1   2.4  2  J
 4    335  7.4   28   J    6.0  -17  156  -4.7   2.5  -0.7  3  J
 5    337  7.0   28   J    6.4   39  156  -4.0   0.5   4.0  3  J
 6    345  7.6   42   J    6.3   30  155  -3.5   0.9   2.6  4  J
 7    333  7.2   34   J    6.1    3  156  -5.0   2.1   0.8  3  J
 8    339  7.5   40   J    6.0   12  145  -3.8   2.5   1.5  4  J
 9    353  8.3   41   J    6.4    7  114  -2.2   4.8   1.4  3  J
10    335  7.7   44   J    6.4  -12  113  -2.3   5.4  -0.5  2  J
11    336  7.7   34   J    6.2    6  130  -3.7   4.3   1.1  2  J
12    336  9.8    0   C    6.0   17  143  -4.1   2.8   1.9  3  J
13    343  8.7    0   C    6.6   16  118  -2.8   4.9   2.4  2  J
14    335  8.2    0   C    6.7   12  165  -5.7   1.3   1.5  3  J
15    338  8.0   19   J    6.8  -15  137  -4.1   4.0  -0.7  4  J
16    336  9.2   46   J    6.6   24  103  -1.3   4.6   3.8  3  J
17    337  7.8   20   J    6.9   14  114  -2.6   5.1   3.4  2  J
18    346  7.7   25   J    6.6   26  110  -2.0   4.0   4.6  2  J
19    346  7.5   27   J    6.5   17  111  -2.0   4.1   3.8  3  J
20    334 10.0    0   C    6.4   26  132  -3.4   2.2   4.0  3  J
21    343 10.1    0   C    6.1   37  146  -2.6   0.4   2.9  5  J
22    351  9.0  108   J    4.6  -52  222  -1.8   0.2  -3.5  2  J
23    342 10.5    0   C    5.0  -74  188  -1.2   2.0  -3.7  3  J
24    381  6.2   31   J    5.2  -39  127  -1.6   3.0  -0.8  4  J
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                                                          119
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357  6.1   42   J    6.2   -3  115  -2.4   4.6   2.2  3  J
343  6.8   49   J    6.4   28  127  -2.9   2.2   4.0  3  J
340  7.5   62   J    5.7   51  187  -3.4  -2.1   3.6  2  J
350  8.7    0   C    4.1  -22  173  -2.8   0.7  -0.9  3  C
354  8.7    0   C    5.0   11  131  -2.7   2.7   1.7  2  C
358  7.1   58   J    5.4   64  191  -2.0  -1.5   3.9  3  J
355  7.8  105   J    5.0   29  116  -1.8   3.1   3.1  2  J
358  7.9    0   C    5.3   13   95  -0.4   4.5   2.0  2  C
370  6.3   30   J    5.4   13   94  -0.3   4.6   1.9  2  J
360  6.9   41   J    5.1   37  138  -2.1   1.6   2.4  3  J
352  6.1   66   L    5.4   -3  122  -2.4   3.9   0.3  2  C
360  7.9    0   C    5.7  -39  115  -1.8   4.1  -2.9  1  C
355  8.2    0   C    5.8  -16  122  -2.7   4.4  -0.8  2  C
350  8.0    0   C    5.6    3  131  -2.9   3.3   0.8  3  C
354  8.0    0   C    5.7   28  104  -1.1   3.7   3.2  2  C
354  7.8    0   C    5.8    7  118  -2.2   3.9   1.6  3  C
357  7.7    0   C    5.8  -21  104  -1.1   4.6  -0.3  3  C
357  7.7    0   C    5.8   26   92  -0.2   3.3   3.6  2  C
358  7.8    0   C    5.9   64   90  -0.0   0.1   5.5  2  C
357  7.4    0   C    5.8   56  104  -0.7   0.6   5.3  2  C
352  7.2    0   C    6.0   40  110  -1.4   1.8   5.0  2  C
344  7.1    0   C    6.2    0  120  -2.9   4.3   2.4  2  C
350  7.7    0   C    5.9   22  109  -1.5   2.8   3.9  2  C
347  7.9    0   C    5.7  -21  129  -3.1   4.2   0.3  2  C
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 1    349  7.8    0   C    5.7   15  133  -3.1   2.3   2.6  3  C
 2    358  7.6    0   C    5.9   11   97  -0.7   4.3   3.4  2  C
 3    349  7.6    0   C    6.1    4  111  -1.8   4.2   2.3  3  C
 4    355  7.7    0   C    6.0   11  109  -1.6   3.9   2.6  3  C
 5    354  7.7    0   C    6.2   -2  108  -1.8   5.2   1.5  2  C
 6    358  8.5    0   C    6.1  -46  129  -1.8   2.8  -2.2  4  C
 7    359  8.3    0   C    6.3  -10   87   0.3   5.9   0.3  2  C
 8    361  7.7    0   C    6.5   -3   91  -0.1   6.2   0.8  1  C
 9    358  7.7    0   C    6.5   -7   92  -0.2   6.0   0.1  2  C
10    358  8.1    0   C    6.0   55  115  -1.0   1.7   3.6  4  C
11    358  8.0    0   C    6.4    6   92  -0.2   5.5   1.2  2  C
12    348  7.6    0   C    6.5  -10  100  -1.1   6.1  -0.4  2  C
13    343  7.8    0   C    6.3    4  106  -1.6   5.5   1.2  2  C
14    344  8.4    0   C    5.9   13  120  -2.5   4.2   1.8  2  C
15
16    294  8.9    0   C    6.0    0   88   0.2   5.3   1.4  2  C
17    345  8.6    0   C    5.8   18  138  -3.1   2.3   2.1  4  C
18    348  8.7    0   C    6.1    9  113  -2.1   4.4   2.6  2  C
19    352  9.4    0   C    6.4   -5  112  -2.1   5.1   1.7  2  C
20    350 10.5    0   C    6.4    1  119  -2.4   3.8   2.0  4  C
21    352 11.2    0   C    6.6   28  114  -1.7   2.4   3.8  4  C
22    346 10.8    0   C    6.9   66  129  -1.4  -1.0   5.2  4  C
23    353 10.7    0   C    7.4   -9   86   0.5   6.4   2.5  2  C
24    343 10.2    0   C    7.3   -8  116  -2.6   5.0   1.9  3  C
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335 10.3    0   C    7.8   21  171  -6.9  -0.3   2.8  2  C
335 10.1    0   C    8.0    3  143  -5.3   3.5   2.1  4  C
347 10.0    0   C    7.4  -45  111  -1.7   6.1  -2.6  2  C
349 10.1    0   C    7.8  -40  107  -1.7   6.9  -2.4  1  C

344  8.8    0   C
344  8.8    0   C    8.1   20  128  -4.6   5.3   3.6  1  C

350  9.0    0   C    7.0   -2  154  -5.7   2.8   0.1  3  C
341  8.6    0   C    7.2    0  126  -3.7   5.0   0.6  3  C
348  9.3    0   C    7.1  -13  114  -1.5   3.4  -0.4  6  C

363 11.0    0   C    6.8   -4  168  -4.7   1.0  -0.2  4  C
326 10.2    0   C    6.5   21  161  -4.8   1.2   2.2  3  C
352  9.2    0   C    6.5  -18  114  -1.7   4.0  -0.3  4  C
346  8.7    0   C    6.7   18  134  -4.1   3.4   3.1  2  C
363  9.2    0   C    6.7   17  122  -2.2   2.8   2.4  4  C
359  9.1    0   C    6.8   24  148  -3.6   1.3   2.6  4  C
370  8.0    0   C    7.7  -25  100  -1.1   7.0   0.2  3  C
373  7.0    0   C    8.3  -10  103  -1.7   7.4   2.4  2  C
383  6.7    0   C    8.1  -22  106  -1.9   7.3   0.9  2  C
361  7.0    0   C    7.6   14  148  -5.0   2.0   2.8  4  C
363  7.1    0   C    7.1   20  144  -4.9   2.0   3.6  3  C
```

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122

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 375 | 7.0 | 0 | C | 7.0 | -2 | 148 | -3.4 | 1.9 | 0.9 | 5 | C |
| 2 | 390 | 6.8 | 0 | C | 7.4 | -44 | 125 | -2.3 | 4.6 | -2.0 | 4 | C |
| 3 | 377 | 5.6 | 0 | C | 8.3 | 13 | 120 | -3.9 | 5.4 | 4.3 | 2 | C |
| 4 | 379 | 5.5 | 0 | C | 8.2 | 5 | 128 | -4.8 | 5.5 | 2.9 | 1 | C |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 390 | 5.6 | 0 | C | | | | | | | | |
| 8 | 390 | 5.6 | 0 | C | 7.5 | 3 | 107 | -2.1 | 6.7 | 1.5 | 2 | C |
| 9 | 387 | 5.4 | 0 | C | 7.5 | 23 | 122 | -3.2 | 4.8 | 3.2 | 3 | C |
| 10 | 379 | 5.4 | 0 | C | 7.3 | 4 | 132 | -4.5 | 4.8 | 1.0 | 3 | C |
| 11 | 373 | 5.9 | 0 | C | 7.3 | -15 | 127 | -4.0 | 5.4 | -1.3 | 1 | C |
| 12 | 377 | 6.1 | 0 | C | 6.7 | 5 | 160 | -5.5 | 1.9 | 0.8 | 3 | C |
| 13 | 372 | 6.3 | 0 | C | 6.3 | -13 | 148 | -4.0 | 2.6 | -0.8 | 4 | C |
| 14 | 374 | 5.2 | 0 | C | 6.9 | 19 | 135 | -4.5 | 4.1 | 2.9 | 1 | C |
| 15 | 395 | 5.5 | 0 | C | 6.4 | -13 | 133 | -3.6 | 4.1 | -0.5 | 3 | C |
| 16 | 384 | 5.5 | 0 | C | 6.7 | 19 | 132 | -4.0 | 3.8 | 3.1 | 2 | C |
| 17 | 394 | 5.7 | 0 | C | 6.3 | -28 | 106 | -1.2 | 4.7 | -1.0 | 4 | C |
| 18 | 392 | 5.9 | 0 | C | 6.3 | -35 | 106 | -1.2 | 5.0 | -1.3 | 3 | C |
| 19 | 392 | 5.0 | 0 | C | 6.3 | 20 | 118 | -2.8 | 3.8 | 4.0 | 1 | C |
| 20 | 394 | 5.1 | 0 | C | 5.8 | 6 | 120 | -2.8 | 4.0 | 2.6 | 1 | C |
| 21 | 390 | 5.2 | 0 | C | 5.6 | -8 | 121 | -2.3 | 3.7 | 1.3 | 3 | C |
| 22 | 387 | 4.7 | 0 | C | 5.9 | 7 | 119 | -2.7 | 3.9 | 2.9 | 2 | C |
| 23 | 404 | 4.4 | 0 | C | 5.8 | 10 | 129 | -3.3 | 3.1 | 2.9 | 2 | C |
| 24 | 399 | 4.9 | 0 | C | 5.6 | 2 | 131 | -2.8 | 2.8 | 1.8 | 3 | C |

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124

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 3.1 | 0 | C | 5.8 | -4 | 95 | -0.5 | 5.1 | 2.2 | 1 | C |
| 2 | 386 | 3.3 | 0 | C | 5.5 | 10 | 134 | -3.2 | 2.6 | 2.2 | 3 | C |
| 3 | 384 | 3.4 | 0 | C | 5.2 | 14 | 162 | -4.6 | 0.9 | 1.7 | 1 | C |
| 4 | 396 | 3.3 | 0 | C | 5.1 | 17 | 172 | -4.1 | 0.1 | 1.4 | 2 | C |
| 5 | 415 | 3.3 | 0 | C | 5.0 | -3 | 107 | -1.0 | 3.1 | 0.8 | 4 | C |
| 6 | 422 | 3.1 | 0 | C | 5.1 | -9 | 78 | 1.0 | 4.6 | 0.5 | 1 | C |
| 7 | 419 | 3.1 | 0 | C | 5.0 | 3 | 68 | 1.8 | 4.4 | 1.2 | 1 | C |
| 8 | 407 | 3.3 | 0 | C | 4.5 | -23 | 126 | -1.5 | 2.2 | -0.7 | 4 | C |
| 9 | 383 | 3.3 | 0 | C | 4.5 | 1 | 161 | -3.9 | 1.3 | 0.3 | 2 | C |
| 10 | 381 | 3.1 | 0 | C | 4.6 | 7 | 130 | -2.7 | 3.1 | 0.8 | 2 | C |
| 11 | 394 | 3.1 | 0 | C | 4.8 | 17 | 117 | -1.7 | 3.2 | 1.4 | 2 | C |
| 12 | 397 | 3.0 | 0 | C | 5.0 | 2 | 102 | -1.0 | 4.6 | 0.6 | 1 | C |
| 13 | 400 | 2.9 | 0 | C | 4.8 | 24 | 90 | 0.0 | 3.6 | 2.1 | 2 | C |
| 14 | 403 | 2.8 | 0 | C | 4.8 | 36 | 96 | -0.3 | 3.1 | 3.0 | 2 | C |
| 15 | 387 | 2.7 | 0 | C | 4.6 | 11 | 121 | -2.2 | 3.4 | 1.5 | 1 | C |
| 16 | 394 | 2.6 | 0 | C | 4.5 | 13 | 111 | -1.5 | 3.6 | 1.9 | 1 | C |
| 17 | | | | | | | | | | | | |
| 18 | 338 | 3.4 | 0 | C | 4.6 | 16 | 106 | -1.2 | 3.3 | 2.5 | 1 | C |
| 19 | 310 | 3.6 | 0 | C | 4.7 | 19 | 115 | -1.8 | 3.0 | 2.9 | 1 | C |
| 20 | 331 | 3.1 | 0 | C | 4.6 | 5 | 119 | -2.2 | 3.3 | 2.0 | 1 | C |
| 21 | 373 | 2.6 | 0 | C | 4.1 | -1 | 114 | -1.5 | 3.0 | 1.5 | 2 | C |
| 22 | 386 | 3.0 | 0 | C | 3.6 | -30 | 102 | -0.4 | 2.4 | -0.1 | 2 | C |
| 23 | 368 | 3.2 | 0 | C | 4.0 | 20 | 119 | -1.6 | 1.9 | 2.4 | 2 | C |
| 24 | 358 | 3.1 | 0 | C | 3.9 | -20 | 158 | -3.3 | 1.8 | -0.5 | 1 | C |

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126

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 309 | 5.3 | 17 | J | 4.1 | 2 | 127 | -2.3 | 2.7 | 1.5 | 1 | J |
| 2 | 315 | 5.4 | 20 | J | 3.9 | -5 | 120 | -1.9 | 3.1 | 1.1 | 1 | J |
| 3 | 308 | 5.7 | 15 | J | 3.8 | 16 | 126 | -2.1 | 2.3 | 2.1 | 1 | J |
| 4 | 309 | 5.9 | 15 | J | 4.1 | 12 | 123 | -2.1 | 2.8 | 1.9 | 1 | J |
| 5 | 309 | 6.6 | 15 | J | 4.2 | 21 | 120 | -1.9 | 2.7 | 2.4 | 1 | J |
| 6 | 310 | 12.5 | 0 | C | 3.3 | 15 | 126 | -1.8 | 2.3 | 1.4 | 1 | C |
| 7 | 313 | 17.0 | 12 | J | 3.9 | 40 | 116 | -1.3 | 2.1 | 2.9 | 1 | J |
| 8 | 321 | 18.9 | 14 | J | 3.9 | 42 | 113 | -0.9 | 1.8 | 2.5 | 2 | J |
| 9 | 341 | 22.5 | 20 | J | 4.1 | 64 | 328 | 1.0 | -0.9 | 2.3 | 3 | J |
| 10 | 343 | 20.6 | 29 | J | 5.1 | 86 | 65 | 0.1 | -0.2 | 4.9 | 1 | J |
| 11 | 337 | 17.2 | 27 | J | 6.4 | 34 | 298 | 2.3 | -4.7 | 3.0 | 2 | J |
| 12 | 341 | 16.4 | 30 | J | 6.7 | 49 | 279 | 0.7 | -4.6 | 4.5 | 2 | J |
| 13 | 341 | 14.8 | 26 | J | 7.5 | 28 | 274 | 0.5 | -6.9 | 2.8 | 1 | J |
| 14 | 341 | 15.7 | 32 | J | 7.2 | 16 | 276 | 0.7 | -6.7 | 1.0 | 3 | J |
| 15 | 329 | 16.2 | 0 | C | 8.1 | -1 | 278 | 1.1 | -7.4 | -1.5 | 3 | C |
| 16 | 331 | 15.6 | 0 | C | 8.9 | 32 | 261 | -1.2 | -8.1 | 2.8 | 2 | C |
| 17 | 336 | 17.4 | 0 | C | 8.6 | 51 | 245 | -2.2 | -6.3 | 4.8 | 2 | C |
| 18 | 349 | 15.3 | 20 | J | 8.7 | 24 | 263 | -1.0 | -8.5 | 0.7 | 2 | J |
| 19 | 347 | 15.9 | 21 | J | 8.8 | 21 | 266 | -0.6 | -8.6 | -0.3 | 1 | J |
| 20 | 344 | 17.0 | 30 | J | 8.5 | 12 | 270 | 0.0 | -8.1 | -1.9 | 2 | J |
| 21 | 342 | 16.6 | 35 | J | 7.8 | -11 | 275 | 0.6 | -5.4 | -4.3 | 4 | J |
| 22 | 339 | 17.6 | 41 | J | 6.7 | -61 | 295 | 1.0 | 0.1 | -4.9 | 4 | J |
| 23 | 340 | 17.1 | 47 | J | 7.2 | -63 | 289 | 0.9 | 0.3 | -6.0 | 4 | J |
| 24 | 341 | 12.7 | 39 | J | 8.4 | -69 | 48 | 1.9 | 5.4 | -5.6 | 3 | J |

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128

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 338 | 12.7 | 28 | J | 2.2 | -5 | 70 | 0.6 | 1.5 | 0.6 | 1 | J |
| 2 | 336 | 12.9 | 24 | J | 2.0 | -15 | 65 | 0.7 | 1.4 | 0.2 | 1 | J |
| 3 | 332 | 11.4 | 22 | J | 2.1 | 2 | 25 | 1.8 | 0.8 | 0.4 | 1 | J |
| 4 | 329 | 10.1 | 28 | J | 2.2 | 33 | 39 | 1.0 | 0.5 | 1.1 | 1 | J |
| 5 | 328 | 8.9 | 33 | J | 2.4 | 14 | 1 | 2.2 | -0.1 | 0.5 | 1 | J |
| 6 | 333 | 8.2 | 28 | J | 1.6 | 65 | 125 | -0.1 | 0.0 | 0.4 | 2 | J |
| 7 | 324 | 7.9 | 32 | J | 2.7 | 31 | 336 | 1.7 | -1.0 | 1.0 | 2 | J |
| 8 | 335 | 9.6 | 26 | J | 2.3 | 72 | 302 | 0.3 | -0.7 | 1.6 | 1 | J |
| 9 | 371 | 18.7 | 47 | J | 6.1 | 74 | 184 | -1.0 | -0.5 | 3.4 | 5 | J |
| 10 | 367 | 18.5 | 49 | J | 7.9 | 51 | 136 | -3.1 | 2.5 | 5.6 | 4 | J |
| 11 | 354 | 17.4 | 61 | J | 6.6 | 55 | 260 | -0.6 | -3.9 | 4.8 | 3 | J |
| 12 | 359 | 17.8 | 55 | J | 5.6 | 68 | 139 | -1.4 | 0.8 | 4.5 | 3 | J |
| 13 | 391 | 25.9 | 54 | J | 8.9 | 63 | 263 | -0.4 | -4.2 | 6.6 | 4 | J |
| 14 | 377 | 21.5 | 64 | J | 9.0 | 25 | 306 | 4.6 | -6.8 | 2.9 | 2 | J |
| 15 | 373 | 24.7 | 55 | J | 7.6 | -1 | 314 | 5.1 | -5.2 | -1.0 | 2 | J |
| 16 | 366 | 26.6 | 35 | J | 5.7 | -5 | 309 | 3.4 | -4.1 | -1.4 | 1 | J |
| 17 | 356 | 23.3 | 37 | J | 6.9 | -35 | 329 | 4.1 | -1.5 | -3.9 | 4 | J |
| 18 | 359 | 20.7 | 36 | J | 7.7 | -64 | 318 | 2.4 | 0.1 | -7.1 | 2 | J |
| 19 | 359 | 24.0 | 36 | J | 4.7 | -64 | 335 | 1.8 | 0.8 | -4.1 | 1 | J |
| 20 | 350 | 14.2 | 43 | J | 7.8 | -47 | 134 | -3.7 | 5.8 | -3.5 | 1 | J |
| 21 | 359 | 12.8 | 43 | J | 7.6 | -40 | 127 | -3.5 | 6.3 | -2.2 | 1 | J |
| 22 | 345 | 6.6 | 28 | J | 7.1 | 39 | 168 | -5.2 | -1.0 | 4.4 | 2 | J |
| 23 | 353 | 6.7 | 48 | J | 7.1 | 11 | 134 | -4.0 | 3.1 | 3.0 | 4 | J |
| 24 | 367 | 7.2 | 49 | J | 6.6 | -68 | 237 | -1.0 | 0.8 | -4.9 | 4 | J |

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123

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 4.5 | 0 | C | 5.6 | 12 | 128 | -3.3 | 3.1 | 2.9 | 1 | C |
| 2 | 397 | 4.5 | 0 | C | 5.5 | 4 | 116 | -2.0 | 3.6 | 2.1 | 2 | C |
| 3 | 392 | 4.3 | 0 | C | 5.5 | 19 | 132 | -3.2 | 2.5 | 2.9 | 2 | C |
| 4 | 395 | 4.7 | 0 | C | 5.6 | -2 | 93 | -0.3 | 5.1 | 1.7 | 1 | C |
| 5 | 390 | 5.1 | 0 | C | 5.4 | -8 | 84 | 0.6 | 5.2 | 0.9 | 1 | C |
| 6 | 374 | 4.9 | 0 | C | 5.3 | -22 | 103 | -1.1 | 4.9 | -0.6 | 1 | C |
| 7 | 401 | 4.9 | 0 | C | 5.3 | -38 | 57 | 2.1 | 3.8 | -2.3 | 2 | C |
| 8 | 414 | 4.3 | 0 | C | 5.6 | -16 | 58 | 2.7 | 4.6 | -0.8 | 1 | C |
| 9 | 407 | 4.0 | 0 | C | 5.4 | -13 | 92 | -0.2 | 4.7 | -0.4 | 2 | C |
| 10 | 402 | 4.3 | 0 | C | 6.4 | -15 | 92 | -0.2 | 4.9 | -0.8 | 1 | C |
| 11 | 361 | 5.1 | 0 | C | | | | | | | | |
| 12 | 361 | 5.1 | 0 | C | 5.4 | 25 | 115 | -2.0 | 4.0 | 2.6 | 1 | C |
| 13 | 359 | 5.2 | 0 | C | 5.2 | 30 | 128 | -2.6 | 2.9 | 2.7 | 1 | C |
| 14 | | | | | | | | | | | | |
| 15 | 349 | 5.3 | 0 | C | | | | | | | | |
| 16 | 349 | 5.3 | 0 | C | 5.5 | 17 | 128 | -3.0 | 3.4 | 2.4 | 2 | C |
| 17 | 351 | 5.1 | 0 | C | 5.4 | 6 | 136 | -3.4 | 2.9 | 1.4 | 2 | C |
| 18 | 358 | 5.0 | 0 | C | 5.5 | 11 | 118 | -2.3 | 3.8 | 2.5 | 2 | C |
| 19 | 370 | 4.3 | 0 | C | 5.5 | 16 | 132 | -3.3 | 2.8 | 2.8 | 2 | C |
| 20 | 384 | 4.2 | 0 | C | 5.2 | -12 | 119 | -2.0 | 3.7 | 0.8 | 3 | C |
| 21 | 372 | 4.3 | 0 | C | 5.2 | 3 | 114 | -1.9 | 3.7 | 2.3 | 2 | C |
| 22 | 410 | 3.1 | 0 | C | 5.3 | 5 | 105 | -1.2 | 3.7 | 2.5 | 2 | C |
| 23 | 422 | 3.1 | 0 | C | 5.3 | 3 | 88 | 0.2 | 4.2 | 2.6 | 1 | C |
| 24 | 422 | 3.0 | 0 | C | 5.6 | -8 | 80 | 0.9 | 5.0 | 1.8 | 1 | C |

MAY 4, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 338 | 3.4 | 0 | C | 3.7 | 11 | 177 | -3.6 | -0.1 | 0.7 | 0 | C |
| 3 | 335 | 2.6 | 56 | L | 3.4 | -9 | 173 | -3.2 | 0.6 | -0.3 | 1 | C |
| 4 | 327 | 2.7 | 48 | L | 3.6 | -14 | 151 | -2.7 | 1.7 | -0.2 | 1 | J |
| 5 | 348 | 3.5 | 0 | C | 3.1 | 18 | 98 | -0.4 | 2.5 | 1.7 | 0 | C |
| 6 | 359 | 3.7 | 0 | C | 2.9 | -11 | 83 | 0.3 | 2.7 | 0.2 | 1 | C |
| 7 | 367 | 3.9 | 21 | J | 2.9 | -27 | 60 | 1.2 | 2.4 | -0.8 | 1 | J |
| 8 | 362 | 3.7 | 20 | J | 3.0 | -38 | 74 | 0.6 | 2.5 | -1.5 | 0 | J |
| 9 | 334 | 2.8 | 35 | L | 3.1 | -14 | 174 | -2.6 | 0.4 | -0.6 | 1 | J |
| 10 | 332 | 2.6 | 36 | L | 3.2 | 7 | 166 | -2.7 | 0.6 | 0.4 | 1 | J |
| 11 | 334 | 3.7 | 21 | J | 3.0 | 9 | 196 | -2.8 | -0.9 | 0.4 | 0 | J |
| 12 | 336 | 3.9 | 24 | J | 3.1 | -19 | 141 | -1.9 | 1.6 | -0.7 | 2 | J |
| 13 | 345 | 4.2 | 20 | J | 3.3 | -47 | 123 | -1.1 | 1.9 | -2.0 | 2 | J |
| 14 | 343 | 4.1 | 19 | J | 3.9 | -56 | 147 | -1.6 | 1.5 | -2.7 | 2 | J |
| 15 | 337 | 4.6 | 17 | J | 4.2 | -13 | 134 | -2.2 | 2.4 | -0.3 | 3 | J |
| 16 | 339 | 4.7 | 20 | J | 4.0 | 22 | 111 | -1.1 | 2.6 | 1.9 | 2 | J |
| 17 | 330 | 4.8 | 19 | J | 4.1 | 10 | 124 | -2.1 | 2.8 | 1.5 | 1 | J |
| 18 | 325 | 4.7 | 19 | J | 4.2 | 18 | 141 | -2.7 | 1.7 | 1.8 | 2 | J |
| 19 | 328 | 3.9 | 18 | J | 4.3 | -3 | 131 | -2.4 | 2.6 | 0.9 | 2 | J |
| 20 | 321 | 4.5 | 21 | J | 4.4 | -2 | 142 | -3.4 | 2.4 | 1.0 | 1 | J |
| 21 | 320 | 4.5 | 17 | J | 4.2 | 12 | 126 | -2.3 | 2.4 | 2.2 | 1 | J |
| 22 | 323 | 4.7 | 14 | J | 4.1 | 12 | 114 | -1.5 | 2.6 | 2.3 | 1 | J |
| 23 | 322 | 5.6 | 16 | J | 3.9 | 31 | 117 | -1.4 | 1.5 | 2.9 | 2 | J |
| 24 | 315 | 6.2 | 16 | J | 3.8 | 12 | 105 | -0.9 | 2.7 | 2.3 | 1 | J |

MAY 6, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 352 | 11.1 | 62 | J | 7.6 | -48 | 85 | 0.4 | 5.7 | -2.2 | 5 | J |
| 2 | 368 | 12.1 | 79 | J | 6.9 | -21 | 84 | 0.6 | 6.6 | 0.4 | 2 | J |
| 3 | 347 | 15.4 | 0 | C | 5.0 | -57 | 340 | 2.4 | 0.7 | -3.9 | 2 | C |
| 4 | 347 | 15.4 | 0 | C | 7.2 | 7 | 294 | 2.5 | -5.8 | -1.2 | 3 | C |
| 5 | 347 | 13.6 | 0 | C | 7.3 | 36 | 292 | 2.0 | -6.1 | 2.3 | 2 | C |
| 6 | 367 | 7.2 | 60 | J | 8.6 | -32 | 267 | -0.2 | -3.7 | -3.8 | 7 | J |
| 7 | 370 | 7.0 | 49 | J | 7.8 | -40 | 260 | -0.9 | -4.2 | -5.3 | 4 | J |
| 8 | 392 | 8.2 | 46 | J | 8.0 | -33 | 228 | -4.3 | -4.1 | -4.8 | 2 | J |
| 9 | 386 | 6.8 | 39 | J | 8.0 | 30 | 270 | 0.0 | -6.9 | 3.0 | 3 | J |
| 10 | 381 | 7.5 | 48 | J | 6.7 | 22 | 258 | -0.9 | -4.5 | 1.4 | 5 | J |
| 11 | 377 | 6.5 | 38 | J | 7.4 | -11 | 245 | -2.7 | -5.7 | -1.7 | 4 | J |
| 12 | 373 | 6.3 | 32 | J | 6.4 | -36 | 268 | -0.2 | -4.4 | -3.8 | 3 | J |
| 13 | 371 | 6.6 | 31 | J | 6.2 | -37 | 266 | -0.3 | -4.2 | -3.9 | 2 | J |
| 14 | 365 | 6.7 | 30 | J | 5.6 | -27 | 279 | 0.8 | -4.4 | -3.0 | 1 | J |
| 15 | 372 | 8.3 | 25 | J | 4.8 | -10 | 262 | -0.6 | -4.4 | -1.6 | 1 | J |
| 16 | 383 | 5.5 | 29 | J | 5.8 | -10 | 224 | -4.0 | -3.5 | -1.8 | 1 | J |
| 17 | 353 | 6.9 | 0 | C | 5.0 | 9 | 245 | -2.0 | -4.3 | -0.5 | 2 | C |
| 18 | 347 | 9.0 | 0 | C | 5.3 | -19 | 274 | 0.3 | -3.3 | -2.7 | 3 | C |
| 19 | 349 | 8.9 | 0 | C | 5.5 | -16 | 301 | 2.4 | -3.1 | -2.7 | 3 | C |
| 20 | 353 | 7.8 | 23 | J | 4.7 | -16 | 348 | 4.3 | -0.3 | -1.5 | 1 | J |
| 21 | 340 | 9.1 | 30 | J | 4.4 | -29 | 8 | 3.5 | 1.3 | -1.5 | 2 | J |
| 22 | 347 | 11.2 | 41 | J | 3.3 | -14 | 11 | 1.6 | 0.5 | -0.2 | 3 | J |
| 23 | 343 | 12.9 | 28 | J | 2.1 | -19 | 69 | 0.5 | 1.5 | 0.2 | 2 | J |
| 24 | 340 | 13.6 | 28 | J | 1.5 | -13 | 77 | 0.2 | 0.9 | 0.2 | 1 | J |

MAY 8, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 375 | 5.7 | 31 | J | 7.2 | -71 | 100 | -0.4 | 5.0 | -5.0 | 1 | J |
| 2 | 377 | 5.4 | 30 | J | 6.9 | -69 | 90 | -0.0 | 4.9 | -4.8 | 1 | J |
| 3 | 354 | 6.3 | 47 | J | 6.2 | -40 | 115 | -1.9 | 5.3 | -2.0 | 2 | J |
| 4 | 367 | 7.2 | 24 | J | 5.9 | -56 | 105 | -0.8 | 4.4 | -3.4 | 2 | J |
| 5 | 356 | 8.5 | 20 | J | 5.8 | -59 | 107 | -0.8 | 4.0 | -3.8 | 1 | J |
| 6 | 336 | 9.8 | 16 | J | 5.5 | -34 | 125 | -2.5 | 4.2 | -2.1 | 1 | J |
| 7 | 333 | 9.0 | 24 | J | 5.5 | 15 | 149 | -4.2 | 2.3 | 1.8 | 2 | J |
| 8 | 333 | 8.4 | 16 | J | 5.6 | 44 | 152 | -3.5 | 1.3 | 4.0 | 1 | J |
| 9 | 333 | 8.2 | 15 | J | 5.4 | 58 | 152 | -2.4 | 0.8 | 4.5 | 1 | J |
| 10 | 341 | 13.3 | 23 | J | 6.9 | 52 | 135 | -3.0 | 2.5 | 5.7 | 1 | J |
| 11 | 340 | 14.7 | 22 | J | 7.5 | 31 | 140 | -4.9 | 3.8 | 4.1 | 1 | J |
| 12 | 351 | 12.9 | 26 | J | 7.0 | 30 | 144 | -4.8 | 3.2 | 3.6 | 2 | J |
| 13 | 344 | 9.7 | 27 | J | 6.4 | 15 | 147 | -4.9 | 3.0 | 1.8 | 2 | J |
| 14 | 337 | 8.8 | 27 | J | 7.2 | -12 | 143 | -5.5 | 4.3 | -1.0 | 2 | J |
| 15 | 349 | 10.9 | 27 | J | 8.5 | -1 | 141 | -6.4 | 5.1 | 0.7 | 2 | J |
| 16 | 346 | 10.6 | 27 | J | 8.2 | 22 | 143 | -6.1 | 3.8 | 4.0 | 1 | J |
| 17 | 342 | 9.2 | 27 | J | 8.1 | 28 | 153 | -6.4 | 2.1 | 4.5 | 1 | J |
| 18 | 347 | 9.5 | 29 | J | 7.9 | 37 | 154 | -5.6 | 1.1 | 5.3 | 2 | J |
| 19 | 357 | 12.0 | 26 | J | 7.5 | 66 | 189 | -2.5 | -2.5 | 5.2 | 4 | J |
| 20 | 350 | 8.3 | 31 | J | 8.4 | 43 | 157 | -5.6 | -0.2 | 6.1 | 2 | J |
| 21 | 350 | 6.1 | 20 | J | 8.9 | 18 | 146 | -6.9 | 2.9 | 4.5 | 1 | J |
| 22 | 351 | 6.7 | 29 | J | 8.2 | 25 | 154 | -6.6 | 1.3 | 4.5 | 1 | J |
| 23 | 342 | 7.1 | 0 | C | 8.3 | -20 | 137 | -5.6 | 5.8 | -0.1 | 2 | C |
| 24 | 372 | 4.0 | 31 | J | 8.6 | -28 | 140 | -5.8 | 6.1 | -1.3 | 1 | J |

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OF POOR QUALITY

05/09/80 – 05/16/80

MAY 9, 1980 — 130

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 5.2 | 36 | J | 8.6 | -19 | 145 | -6.3 | 5.1 | -0.4 | 3 | J |
| 2 | 428 | 4.2 | 68 | J | 8.5 | -28 | 132 | -4.7 | 6.2 | -1.3 | 3 | J |
| 3 | 434 | 6.4 | 75 | J | 7.9 | -37 | 324 | 4.7 | -1.5 | -5.3 | 3 | J |
| 4 | 424 | 7.0 | 40 | J | 9.1 | -30 | 345 | 7.3 | -0.4 | -4.7 | 3 | J |
| 5 | 415 | 5.3 | 35 | J | 10.4 | -21 | 330 | 8.3 | -3.6 | -4.9 | 1 | J |
| 6 | 411 | 4.7 | 28 | J | 10.3 | -17 | 322 | 7.7 | -5.2 | -4.3 | 1 | J |
| 7 | 408 | 5.0 | 26 | J | 10.4 | -14 | 321 | 7.8 | -5.8 | -3.6 | 1 | J |
| 8 | 410 | 7.2 | 24 | J | 9.3 | 13 | 332 | 8.0 | -4.5 | 1.5 | 1 | J |
| 9 | 397 | 4.2 | 21 | J | 8.8 | 16 | 326 | 6.9 | -4.9 | 1.9 | 1 | J |
| 10 | 411 | 4.0 | 31 | J | 7.9 | 10 | 318 | 5.2 | -4.8 | 0.9 | 4 | J |
| 11 | 443 | 7.0 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 434 | 5.9 | 0 | C | 10.0 | -20 | 261 | -1.4 | -8.8 | -4.0 | 2 | C |
| 13 | 449 | 6.3 | 29 | J | 9.8 | -5 | 244 | -4.3 | -8.7 | -1.6 | 1 | J |
| 14 | 432 | 5.5 | 28 | J | 9.9 | -13 | 274 | 0.6 | -8.7 | -3.1 | 4 | J |
| 15 | 426 | 3.9 | 30 | J | 10.6 | -7 | 282 | 2.2 | -9.9 | -2.9 | 2 | J |
| 16 | 412 | 4.1 | 23 | J | 10.9 | 2 | 289 | 3.5 | -10.1 | -1.7 | 2 | J |
| 17 | 409 | 4.1 | 21 | J | 11.2 | 9 | 289 | 3.6 | -10.5 | -1.1 | 2 | J |
| 18 | 405 | 3.5 | 16 | J | 11.4 | 15 | 289 | 3.5 | -10.6 | -0.5 | 2 | J |
| 19 | 412 | 5.3 | 21 | J | 11.5 | 30 | 288 | 3.0 | -10.5 | 1.8 | 3 | J |
| 20 | 411 | 13.7 | 23 | J | 9.5 | 19 | 288 | 2.4 | -7.9 | -0.6 | 5 | J |
| 21 | 413 | 14.2 | 27 | J | 9.2 | -30 | 281 | 1.2 | -3.8 | -5.8 | 6 | J |
| 22 | 389 | 7.6 | 0 | C | 11.6 | 15 | 279 | 1.7 | -11.0 | -2.3 | 2 | C |
| 23 | 412 | 8.5 | 21 | J | 11.8 | 20 | 276 | 1.1 | -11.2 | -1.5 | 3 | J |
| 24 | 407 | 4.5 | 20 | J | 13.6 | 7 | 269 | -0.2 | -12.6 | -4.6 | 2 | J |

MAY 11, 1980 — 132

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 397 | 26.8 | 46 | J | 10.5 | 59 | 137 | -3.9 | -0.5 | 9.6 | 2 | J |
| 2 | 388 | 26.2 | 31 | J | 9.7 | 51 | 134 | -4.2 | 1.0 | 8.7 | 2 | J |
| 3 | 381 | 13.9 | 44 | J | 11.0 | 69 | 130 | -2.3 | -0.8 | 9.8 | 5 | J |
| 4 | 423 | 10.8 | 97 | J | 11.2 | 41 | 336 | 7.6 | -5.5 | 5.8 | 2 | J |
| 5 | 425 | 11.2 | 82 | J | 12.3 | 38 | 330 | 8.3 | -6.6 | 6.0 | 2 | J |
| 6 | 456 | 9.6 | 84 | J | 11.5 | 7 | 334 | 6.2 | -3.1 | 0.2 | 9 | J |
| 7 | 453 | 11.4 | 197 | L | 12.7 | -17 | 327 | 10.2 | -5.9 | -4.7 | 1 | C |
| 8 | 401 | 12.0 | 204 | L | 10.8 | -35 | 315 | 5.0 | -4.3 | -5.4 | 6 | C |
| 9 | 421 | 13.8 | 196 | L | 10.5 | -76 | 6 | 2.1 | 1.0 | -8.5 | 5 | C |
| 10 | 370 | 13.0 | 246 | L | 11.2 | -49 | 327 | 5.9 | -3.3 | -8.4 | 3 | C |
| 11 | 450 | 17.5 | 0 | C | 10.7 | -32 | 321 | 6.3 | -4.8 | -5.2 | 5 | C |
| 12 | 454 | 17.4 | 0 | C | 12.0 | -11 | 321 | 8.9 | -7.1 | -2.6 | 2 | C |
| 13 | 476 | 15.6 | 0 | C | 10.6 | -30 | 328 | 6.9 | -3.9 | -5.0 | 4 | C |
| 14 | 536 | 11.6 | 0 | C | 9.3 | 66 | 257 | -0.3 | -1.6 | 2.8 | 9 | C |
| 15 | 603 | 8.4 | 0 | C | 9.2 | 46 | 334 | 5.5 | -3.5 | 5.8 | 3 | C |
| 16 | 602 | 8.4 | 0 | C | 10.5 | 23 | 327 | 7.9 | -5.7 | 2.9 | 3 | C |
| 17 | 613 | 9.8 | 0 | C | 11.6 | 8 | 326 | 8.5 | -5.9 | -0.0 | 4 | C |
| 18 | 649 | 9.3 | 0 | C | 12.1 | -7 | 314 | 7.4 | -6.9 | -3.6 | 4 | C |
| 19 | 676 | 8.9 | 0 | C | 13.2 | 5 | 311 | 7.8 | -8.7 | -2.2 | 4 | C |
| 20 | 679 | 9.4 | 0 | C | 12.2 | 15 | 311 | 6.8 | -8.4 | -0.6 | 4 | C |
| 21 | 670 | 9.7 | 0 | C | 12.5 | 10 | 322 | 9.2 | -7.3 | -1.2 | 3 | C |
| 22 | 659 | 9.1 | 0 | C | 12.1 | -17 | 322 | 8.6 | -4.5 | -6.0 | 3 | C |
| 23 | 623 | 9.0 | 0 | C | 13.1 | 9 | 327 | 9.6 | -6.3 | -1.2 | 5 | C |
| 24 | 618 | 9.1 | 0 | C | 13.0 | -4 | 315 | 7.6 | -6.4 | -4.0 | 5 | C |

MAY 13, 1980 — 134

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 544 | 4.0 | 0 | C | 4.8 | 45 | 298 | 1.5 | -3.9 | 1.7 | 1 | C |
| 2 | 599 | 3.1 | 0 | C | 5.1 | -7 | 348 | 4.3 | -0.6 | -0.8 | 2 | C |
| 3 | 585 | 3.0 | 0 | C | 5.2 | 10 | 323 | 3.2 | -2.5 | -0.2 | 3 | C |
| 4 | 602 | 3.6 | 0 | C | 4.6 | 29 | 257 | -0.7 | -3.7 | 0.8 | 1 | C |
| 5 | 602 | 3.6 | 0 | C | 4.5 | 19 | 297 | 1.6 | -3.4 | 0.4 | 2 | C |
| 6 | 592 | 3.5 | 0 | C | 4.8 | 46 | 358 | 2.9 | -0.7 | 2.9 | 2 | C |
| 7 | 581 | 3.8 | 0 | C | 4.7 | 26 | 357 | 2.9 | -0.4 | 1.4 | 3 | C |
| 8 | 557 | 4.7 | 0 | C | 4.7 | -9 | 341 | 3.0 | -0.9 | -0.6 | 3 | C |
| 9 | 519 | 5.5 | 0 | C | 5.2 | 37 | 321 | 2.7 | -2.3 | 2.4 | 3 | C |
| 10 | 511 | 5.8 | 0 | C | 6.4 | 66 | 7 | 2.4 | -0.0 | 5.3 | 3 | C |
| 11 | 529 | 6.3 | 0 | C | 7.0 | 58 | 15 | 3.1 | 0.6 | 5.2 | 3 | C |
| 12 | 523 | 6.4 | 0 | C | 6.7 | 72 | 34 | 1.5 | 0.8 | 5.6 | 3 | C |
| 13 | 506 | 6.0 | 0 | C | 7.2 | 70 | 126 | -1.4 | 1.6 | 6.8 | 1 | C |
| 14 | 501 | 6.2 | 0 | C | 6.5 | 66 | 79 | 0.5 | 2.0 | 5.8 | 2 | C |
| 15 | 481 | 5.3 | 0 | C | 6.3 | 65 | 58 | 1.4 | 1.5 | 5.9 | 1 | C |
| 16 | 475 | 5.3 | 0 | C | 6.2 | 68 | 62 | 1.1 | 1.0 | 6.0 | 0 | C |
| 17 | 458 | 6.4 | 0 | C | 6.9 | 44 | 47 | 3.3 | 2.3 | 5.4 | 1 | C |
| 18 | 488 | 5.2 | 0 | C | 5.7 | 5 | 21 | 4.9 | 1.6 | 1.0 | 2 | C |
| 19 | 505 | 5.0 | 0 | C | 5.5 | -2 | 0 | 5.0 | 0.1 | -0.1 | 2 | C |
| 20 | 512 | 5.0 | 0 | C | 5.4 | -26 | 357 | 4.5 | 0.6 | -2.1 | 2 | C |
| 21 | 507 | 5.4 | 0 | C | 5.2 | -24 | 341 | 4.0 | -0.5 | -2.4 | 2 | C |
| 22 | 529 | 5.1 | 0 | C | 5.4 | -58 | 298 | 1.0 | -0.2 | -4.1 | 3 | C |
| 23 | 540 | 5.3 | 0 | C | 6.0 | -57 | 276 | 0.3 | -0.6 | -5.6 | 2 | C |
| 24 | 521 | 5.5 | 0 | C | 6.1 | -55 | 302 | 1.5 | -0.4 | -4.6 | 3 | C |

MAY 15, 1980 — 136

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 627 | 1.5 | 0 | C | 4.3 | 59 | 343 | 2.1 | -2.1 | 3.0 | 1 | C |
| 2 | 544 | 1.6 | 0 | C | 4.0 | 32 | 13 | 3.2 | -0.1 | 2.2 | 1 | C |
| 3 | 561 | 1.7 | 0 | C | 4.0 | 43 | 348 | 2.7 | -1.4 | 2.2 | 1 | C |
| 4 | 581 | 1.7 | 0 | C | 4.0 | 36 | 20 | 2.8 | 0.4 | 2.4 | 1 | C |
| 5 | 597 | 1.7 | 0 | C | 4.3 | 41 | 318 | 2.0 | -2.3 | 1.8 | 2 | C |
| 6 | 593 | 1.7 | 0 | C | 4.0 | -35 | 301 | 1.4 | -1.8 | -2.2 | 2 | C |
| 7 | 619 | 1.6 | 0 | C | 3.8 | 21 | 346 | 0.9 | -0.3 | 0.3 | 4 | C |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 408 | 3.3 | 0 | C | 3.4 | 0 | 308 | 1.5 | -1.9 | -0.1 | 2 | C |
| 10 | 445 | 2.6 | 0 | C | 3.1 | -15 | 338 | 2.0 | -0.8 | -0.6 | 2 | C |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 473 | 2.3 | 0 | C | 3.2 | -23 | 319 | 2.1 | -1.8 | -1.3 | 0 | C |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 288 | 3.8 | 0 | C | 3.8 | 30 | 337 | 2.9 | -1.4 | 1.7 | 1 | C |
| 15 | 288 | 3.8 | 0 | C | 3.6 | 42 | 352 | 2.6 | -0.7 | 2.3 | 1 | C |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 441 | 2.2 | 0 | C | 3.3 | 51 | 338 | 1.8 | -1.3 | 2.2 | 1 | C |
| 18 | 388 | 2.8 | 0 | C | 3.3 | 39 | 8 | 2.5 | -0.2 | 2.1 | 1 | C |
| 19 | 289 | 3.9 | 0 | C | 3.4 | 31 | 321 | 2.2 | -2.2 | 1.0 | 1 | C |
| 20 | 284 | 4.1 | 0 | C | 2.9 | 19 | 312 | 1.7 | -2.1 | 0.1 | 1 | C |
| 21 | 283 | 4.4 | 0 | C | 2.6 | 15 | 312 | 1.6 | -1.9 | -0.1 | 1 | C |
| 22 | 286 | 4.4 | 0 | C | 2.6 | -5 | 295 | 1.1 | -2.0 | -1.2 | 1 | C |
| 23 | 301 | 4.5 | 0 | C | 2.4 | -22 | 261 | -0.3 | -1.5 | -1.7 | 1 | C |
| 24 | 328 | 4.5 | 0 | C | 2.2 | -18 | 244 | -0.9 | -1.4 | -1.4 | 0 | C |

MAY 10, 1980 — 131

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 8.5 | 37 | J | 14.9 | 19 | 277 | 1.5 | -13.1 | -1.6 | 7 | C |
| 2 | 408 | 9.3 | 24 | J | 15.8 | 58 | 324 | 6.7 | -9.9 | 10.2 | 1 | J |
| 3 | 405 | 9.7 | 35 | J | 15.5 | 66 | 336 | 5.7 | -7.5 | 12.2 | 2 | J |
| 4 | 397 | 10.2 | 36 | J | 14.6 | 65 | 355 | 6.1 | -4.7 | 12.4 | 1 | J |
| 5 | 400 | 12.1 | 31 | J | 14.4 | 69 | 334 | 4.6 | -5.8 | 12.2 | 2 | J |
| 6 | 396 | 9.7 | 19 | J | 14.9 | 66 | 306 | 3.6 | -7.8 | 12.2 | 0 | J |
| 7 | 408 | 7.7 | 19 | J | 16.7 | 61 | 274 | 0.6 | -10.5 | 13.0 | 1 | J |
| 8 | 405 | 7.5 | 20 | J | 16.9 | 65 | 283 | 1.6 | -8.8 | 14.2 | 1 | J |
| 9 | 403 | 12.7 | 25 | J | 17.3 | 70 | 308 | 3.6 | -6.1 | 15.6 | 3 | J |
| 10 | 397 | 14.9 | 27 | J | 16.8 | 73 | 350 | 4.8 | -2.0 | 16.0 | 1 | J |
| 11 | 383 | 12.6 | 0 | C | 16.8 | 70 | 18 | 5.4 | 0.8 | 15.8 | 2 | J |
| 12 | 385 | 11.7 | 0 | C | 16.1 | 76 | 50 | 2.5 | 2.0 | 15.7 | 2 | J |
| 13 | 368 | 11.9 | 0 | C | 15.4 | 76 | 71 | 1.2 | 2.4 | 15.2 | 1 | J |
| 14 | 383 | 11.2 | 23 | J | 15.3 | 83 | 76 | 0.5 | 0.2 | 15.3 | 1 | J |
| 15 | 373 | 6.4 | 21 | L | 15.8 | 75 | 94 | -0.3 | 1.7 | 15.6 | 2 | C |
| 16 | 358 | 6.2 | 0 | C | 15.2 | 53 | 86 | 0.7 | 6.5 | 13.7 | 1 | C |
| 17 | 372 | 3.5 | 0 | C | 14.4 | 52 | 89 | 0.1 | 5.5 | 13.2 | 1 | C |
| 18 | 366 | 4.3 | 0 | C | 13.5 | 49 | 85 | 0.8 | 5.0 | 12.3 | 2 | C |
| 19 | 370 | 11.0 | 77 | L | 11.4 | 38 | 84 | 0.9 | 5.6 | 9.5 | 3 | C |
| 20 | 376 | 13.0 | 43 | J | 11.4 | 31 | 99 | -1.5 | 6.3 | 9.0 | 3 | J |
| 21 | 390 | 12.9 | 25 | J | 12.1 | 51 | 109 | -2.4 | 2.3 | 11.0 | 4 | J |
| 22 | 402 | 17.2 | 28 | J | 12.0 | 50 | 139 | -5.8 | 0.3 | 10.4 | 1 | J |
| 23 | 402 | 22.8 | 46 | J | 10.3 | 49 | 142 | -5.3 | 0.1 | 8.7 | 1 | J |
| 24 | 398 | 30.8 | 43 | J | 9.1 | 60 | 133 | -3.1 | -0.6 | 8.4 | 2 | J |

MAY 12, 1980 — 133

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 617 | 7.8 | 0 | C | 11.5 | -12 | 318 | 7.4 | -5.2 | -4.8 | 4 | C |
| 2 | 623 | 5.4 | 0 | C | 7.5 | -23 | 316 | 4.0 | -2.7 | -3.7 | 3 | C |
| 3 | 648 | 4.9 | 0 | C | 7.9 | -5 | 336 | 6.5 | -2.4 | -1.6 | 3 | C |
| 4 | 656 | 5.6 | 0 | C | 7.7 | -35 | 331 | 4.1 | -1.1 | -3.8 | 4 | C |
| 5 | 648 | 6.0 | 0 | C | 7.9 | 19 | 307 | 3.3 | -4.8 | 0.6 | 5 | C |
| 6 | 622 | 5.1 | 0 | C | 6.1 | 32 | 314 | 3.0 | -3.6 | 2.0 | 2 | C |
| 7 | 650 | 3.5 | 0 | C | 5.0 | 6 | 311 | 2.7 | -3.2 | -0.1 | 2 | C |
| 8 | 664 | 3.2 | 0 | C | 5.5 | 18 | 285 | 1.2 | -4.6 | 1.0 | 2 | C |
| 9 | 653 | 3.1 | 0 | C | 5.4 | 7 | 302 | 2.4 | -3.9 | 0.3 | 2 | C |
| 10 | 647 | 2.9 | 0 | C | 6.0 | 1 | 266 | -0.4 | -5.7 | -0.3 | 1 | C |
| 11 | 622 | 2.8 | 0 | C | 6.0 | 5 | 310 | 3.5 | -4.3 | 0.3 | 2 | C |
| 12 | 581 | 2.6 | 0 | C | 5.4 | -5 | 330 | 4.3 | -2.5 | -0.6 | 2 | C |
| 13 | 546 | 2.9 | 0 | C | 5.1 | -5 | 349 | 4.9 | -0.9 | -0.5 | 1 | C |
| 14 | 533 | 4.2 | 0 | C | 4.5 | 6 | 302 | 2.1 | -3.4 | 0.1 | 2 | C |
| 15 | 513 | 4.8 | 0 | C | 4.5 | 20 | 292 | 1.4 | -3.7 | 0.9 | 1 | C |
| 16 | 510 | 4.7 | 0 | C | 3.2 | -8 | 315 | 1.9 | -1.8 | -0.7 | 1 | C |
| 17 | 509 | 4.5 | 0 | C | 3.2 | 21 | 348 | 1.1 | -0.3 | 0.4 | 3 | C |
| 18 | 515 | 4.5 | 0 | C | 3.6 | 29 | 311 | 1.6 | -2.2 | 0.7 | 2 | C |
| 19 | 519 | 4.6 | 0 | C | 3.8 | -25 | 283 | 0.7 | -2.3 | -2.4 | 1 | C |
| 20 | 514 | 4.7 | 0 | C | 4.3 | 39 | 331 | 2.7 | -2.3 | 1.7 | 1 | C |
| 21 | 519 | 4.7 | 0 | C | 4.4 | 23 | 302 | 1.8 | -3.2 | 0.1 | 2 | C |
| 22 | 510 | 4.7 | 0 | C | 4.6 | 32 | 308 | 2.2 | -3.6 | 0.8 | 1 | C |
| 23 | 484 | 4.7 | 0 | C | 4.8 | 26 | 330 | 3.4 | -2.6 | 0.8 | 2 | C |
| 24 | 501 | 4.5 | 0 | C | 4.9 | 48 | 305 | 1.8 | -3.7 | 1.9 | 1 | C |

MAY 14, 1980 — 135

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 518 | 6.1 | 0 | C | 5.7 | -55 | 343 | 2.5 | 0.9 | -3.7 | 3 | C |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 550 | 3.4 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 550 | 3.4 | 0 | C | 4.8 | 20 | 312 | 2.5 | -2.9 | 1.1 | 2 | C |
| 9 | 549 | 2.9 | 0 | C | 4.8 | 26 | 334 | 3.7 | -2.0 | 1.9 | 1 | C |
| 10 | 539 | 3.0 | 0 | C | 5.1 | 47 | 30 | 2.8 | 1.5 | 3.6 | 2 | C |
| 11 | 481 | 3.3 | 0 | C | 5.0 | 19 | 342 | 3.4 | -1.2 | 1.2 | 3 | C |
| 12 | 603 | 2.4 | 0 | C | 5.2 | 39 | 6 | 3.5 | 0.2 | 2.8 | 2 | C |
| 13 | 446 | 3.7 | 0 | C | 4.9 | 2 | 16 | 4.4 | 1.3 | 0.2 | 2 | C |
| 14 | 443 | 3.0 | 0 | C | 4.8 | 21 | 16 | 4.3 | 1.1 | 1.8 | 1 | C |
| 15 | 550 | 2.4 | 0 | C | 4.4 | 15 | 11 | 3.5 | 0.6 | 1.0 | 2 | C |
| 16 | 584 | 2.0 | 0 | C | 4.5 | -8 | 352 | 3.6 | -0.4 | -0.6 | 2 | C |
| 17 | 573 | 2.0 | 0 | C | 4.5 | -8 | 26 | 3.6 | 1.8 | -0.1 | 2 | C |
| 18 | 614 | 2.1 | 0 | C | 4.6 | -53 | 20 | 2.4 | 1.8 | -3.0 | 1 | C |
| 19 | 608 | 2.4 | 0 | C | 4.8 | -70 | 352 | 1.5 | 1.2 | -4.0 | 1 | C |
| 20 | 478 | 3.3 | 0 | C | 4.5 | -5 | 314 | 2.7 | -2.4 | -1.4 | 2 | C |
| 21 | 568 | 2.0 | 0 | C | 4.0 | -23 | 7 | 2.0 | 0.6 | -0.7 | 3 | C |
| 22 | 524 | 1.9 | 0 | C | 3.6 | -53 | 61 | 0.6 | 1.8 | -1.1 | 3 | C |
| 23 | 577 | 1.9 | 0 | C | 3.8 | 25 | 16 | 2.4 | 0.1 | 1.3 | 2 | C |
| 24 | 572 | 1.6 | 0 | C | 4.2 | 38 | 6 | 3.1 | -0.8 | 2.3 | 1 | C |

MAY 16, 1980 — 137

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 322 | 4.6 | 0 | C | 1.9 | -11 | 252 | -0.5 | -1.3 | -0.9 | 1 | C |
| 2 | 284 | 4.7 | 0 | C | 1.9 | -18 | 299 | 0.7 | -1.1 | -1.0 | 1 | C |
| 3 | 222 | 4.5 | 0 | C | 2.4 | 14 | 322 | 1.7 | -1.4 | 0.1 | 1 | C |
| 4 | 225 | 4.4 | 0 | C | 2.4 | 15 | 323 | 1.7 | -1.4 | 0.2 | 1 | C |
| 5 | 264 | 4.0 | 0 | C | 2.5 | -10 | 336 | 2.2 | -0.8 | -0.6 | 0 | C |
| 6 | 298 | 3.6 | 0 | C | 2.7 | -40 | 292 | 0.7 | -1.4 | -1.9 | 1 | C |
| 7 | 343 | 2.8 | 0 | C | 3.0 | -17 | 311 | 1.8 | -2.0 | -1.2 | 0 | C |
| 8 | 412 | 2.2 | 0 | C | 3.4 | -5 | 301 | 1.5 | -2.4 | -0.5 | 2 | C |
| 9 | 347 | 3.0 | 0 | C | 3.3 | 6 | 303 | 1.7 | -2.6 | 0.2 | 1 | C |
| 10 | 308 | 3.6 | 0 | C | 3.5 | -19 | 322 | 2.4 | -1.8 | -1.1 | 1 | C |
| 11 | 420 | 1.9 | 0 | C | 3.6 | 26 | 300 | 1.5 | -2.7 | 1.4 | 1 | C |
| 12 | 416 | 1.9 | 0 | C | 3.5 | 5 | 306 | 2.0 | -2.8 | 0.2 | 0 | C |
| 13 | 406 | 1.9 | 0 | C | 3.7 | 5 | 304 | 2.0 | -3.0 | 0.2 | 0 | C |
| 14 | 422 | 2.0 | 0 | C | 3.6 | 29 | 291 | 1.1 | -3.1 | 1.5 | 0 | C |
| 15 | 383 | 2.5 | 0 | C | 3.7 | 35 | 293 | 1.2 | -2.9 | 1.7 | 1 | C |
| 16 | 334 | 3.5 | 0 | C | 3.8 | 22 | 304 | 1.9 | -2.9 | 0.9 | 1 | C |
| 17 | 318 | 3.9 | 0 | C | 3.8 | 30 | 293 | 1.3 | -3.3 | 1.1 | 0 | C |
| 18 | 310 | 4.0 | 0 | C | 3.7 | 25 | 304 | 1.9 | -3.1 | 0.7 | 0 | C |
| 19 | 291 | 3.9 | 0 | C | 3.9 | 24 | 308 | 2.1 | -3.1 | 0.5 | 1 | C |
| 20 | 293 | 3.5 | 0 | C | 3.9 | 16 | 353 | 3.7 | -0.8 | 0.8 | 1 | C |
| 21 | 290 | 3.4 | 0 | C | 4.0 | 13 | 6 | 3.8 | 0.0 | 1.0 | 0 | C |
| 22 | 281 | 3.5 | 0 | C | 4.0 | 7 | 15 | 3.8 | 0.7 | 0.9 | 0 | C |
| 23 | 286 | 3.6 | 0 | C | 3.9 | 8 | 352 | 3.8 | -0.7 | 0.3 | 0 | C |
| 24 | 282 | 3.8 | 0 | C | 4.0 | 13 | 357 | 3.9 | -0.6 | 0.7 | 0 | C |

# 05/17/80 – 05/24/80

MAY 17, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 271 | 4.0 | 0 | C | 4.1 | 20 | 4 | 3.8 | -0.3 | 1.4 | 0 | C |
| 2 | 266 | 4.0 | 0 | C | 4.0 | 15 | 353 | 3.8 | -0.8 | 0.8 | 0 | C |
| 3 | 265 | 3.8 | 0 | C | 3.9 | 10 | 348 | 3.8 | -1.0 | 0.4 | 0 | C |
| 4 | 260 | 3.7 | 0 | C | 3.8 | 6 | 346 | 3.7 | -1.0 | 0.1 | 0 | C |
| 5 | 340 | 1.7 | 37 | L | 3.8 | 9 | 342 | 3.6 | -1.2 | 0.3 | 0 | C |
| 6 | 340 | 1.4 | 38 | L | 4.0 | 9 | 344 | 3.5 | -1.1 | 0.4 | 1 | C |
| 7 | 345 | 1.8 | 29 | J | 3.9 | 6 | 348 | 3.6 | -0.8 | 0.3 | 1 | J |
| 8 | 337 | 1.9 | 24 | J | 3.8 | 22 | 345 | 3.4 | -1.0 | 1.3 | 1 | J |
| 9 | 346 | 2.0 | 24 | J | 5.8 | 21 | 348 | 4.7 | -1.1 | 1.8 | 3 | C |
| 10 | 342 | 2.0 | 23 | J | 3.9 | 13 | 354 | 3.8 | -0.4 | 0.9 | 1 | J |
| 11 | 350 | 2.5 | 72 | J | 3.7 | 17 | 359 | 3.4 | -0.1 | 1.1 | 1 | J |
| 12 | 346 | 2.7 | 37 | J | 3.5 | 12 | 344 | 3.1 | -0.9 | 0.7 | 1 | J |
| 13 | 344 | 2.2 | 28 | J | 3.4 | 11 | 5 | 3.3 | 0.3 | 0.7 | 0 | J |
| 14 | 338 | 2.7 | 21 | J | 3.6 | 8 | 10 | 3.4 | 0.6 | 0.5 | 0 | J |
| 15 | 337 | 2.6 | 21 | J | 3.5 | -16 | 12 | 3.2 | 0.8 | -0.9 | 1 | J |
| 16 | 341 | 2.8 | 24 | J | 3.4 | -27 | 359 | 2.9 | 0.2 | -1.4 | 1 | J |
| 17 | 339 | 2.7 | 25 | J | 3.2 | -23 | 353 | 2.7 | -0.1 | -1.2 | 1 | J |
| 18 | 338 | 2.8 | 20 | J | 3.3 | -27 | 349 | 2.5 | -0.1 | -1.4 | 1 | J |
| 19 | 329 | 2.6 | 24 | J | 3.2 | -15 | 340 | 2.6 | -0.7 | -1.0 | 1 | J |
| 20 | 335 | 6.0 | 15 | J | 3.2 | -10 | 301 | 1.3 | -1.8 | -1.2 | 2 | J |
| 21 | 333 | 5.7 | 13 | J | 3.3 | -3 | 271 | 0.1 | -2.9 | -1.4 | 1 | J |
| 22 | 332 | 5.8 | 14 | J | 3.3 | -8 | 279 | 0.5 | -2.4 | -1.6 | 2 | J |
| 23 | 335 | 6.8 | 15 | J | 3.1 | 13 | 255 | -0.8 | -2.8 | -0.6 | 1 | J |
| 24 | 334 | 6.4 | 12 | J | 3.3 | 9 | 258 | -0.7 | -3.0 | -0.8 | 0 | J |

MAY 18, 1980

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 335 | 6.8 | 14 | J | 3.4 | 14 | 233 | -1.9 | -2.7 | -0.3 | 0 | J |
| 316 | 6.4 | 0 | C | 3.4 | 16 | 235 | -1.9 | -2.9 | -0.1 | 0 | C |
| 305 | 6.3 | 0 | C | 3.3 | 24 | 265 | -0.2 | -3.0 | 0.3 | 1 | C |
| 305 | 6.0 | 0 | C | 3.2 | 11 | 281 | 0.6 | -3.0 | -0.3 | 1 | C |
| 319 | 5.4 | 13 | J | 3.3 | 10 | 277 | 0.4 | -3.2 | -0.2 | 0 | J |
| 316 | 6.0 | 15 | J | 3.4 | 22 | 279 | 0.5 | -3.0 | 0.6 | 1 | J |
| 307 | 6.3 | 0 | C | 3.5 | 2 | 259 | -0.6 | -3.3 | -0.3 | 1 | C |
| 316 | 6.7 | 14 | J | 2.9 | -25 | 264 | -0.3 | -2.5 | -1.4 | 1 | J |
| 319 | 5.8 | 14 | J | 3.1 | -59 | 274 | 0.1 | -1.3 | -2.5 | 1 | J |
| 309 | 6.5 | 16 | J | 3.6 | -64 | 318 | 1.1 | -0.9 | -0.1 | 1 | J |
| 316 | 7.1 | 14 | J | 3.9 | -20 | 261 | -0.4 | -2.8 | -1.1 | 2 | J |
| 330 | 6.8 | 11 | J | 4.2 | 5 | 231 | -2.6 | -3.3 | 0.3 | 1 | J |
| 331 | 7.7 | 11 | J | 4.2 | 8 | 228 | -2.6 | -3.0 | 0.5 | 1 | J |
| 326 | 7.3 | 11 | J | 4.4 | 0 | 238 | -2.3 | -3.7 | -0.2 | 0 | J |
| 325 | 6.7 | 12 | J | 4.4 | 0 | 233 | -2.6 | -3.5 | -0.4 | 0 | J |
| 318 | 7.4 | 16 | J | 3.9 | 5 | 243 | -1.8 | -3.5 | -0.2 | 1 | J |
| 313 | 8.0 | 15 | J | 4.2 | 2 | 272 | 0.1 | -2.6 | -0.5 | 3 | J |
| 305 | 8.0 | 18 | J | 3.8 | 48 | 2 | 2.4 | -0.6 | 2.6 | 1 | J |
| 307 | 7.1 | 16 | J | 4.1 | 67 | 13 | 1.4 | -0.8 | 3.4 | 2 | J |
| 308 | 7.2 | 15 | J | 4.4 | 74 | 3 | 1.1 | -1.4 | 3.6 | 2 | J |
| 303 | 6.8 | 14 | J | 5.0 | 56 | 40 | 2.0 | -0.0 | 4.2 | 2 | J |
| 303 | 6.7 | 14 | J | 4.7 | 52 | 41 | 2.1 | 0.2 | 4.0 | 1 | J |
| 298 | 7.1 | 18 | J | 4.2 | 51 | 9 | 2.5 | -0.9 | 3.0 | 1 | J |
| 300 | 7.6 | 20 | J | 4.0 | 50 | 333 | 2.2 | -2.2 | 2.2 | 1 | J |

MAY 19, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 308 | 8.8 | 17 | J | 4.0 | 88 | 291 | 0.0 | -1.6 | 3.4 | 1 | J |
| 2 | 301 | 8.6 | 19 | J | 3.8 | 53 | 327 | 1.9 | -2.2 | 2.3 | 1 | J |
| 3 | 318 | 12.9 | 25 | J | 5.4 | 83 | 325 | 0.5 | -2.1 | 5.0 | 1 | J |
| 4 | 313 | 12.0 | 22 | J | 5.8 | 69 | 321 | 1.4 | -2.5 | 4.4 | 2 | J |
| 5 | 308 | 11.7 | 23 | J | 6.4 | 64 | 325 | 2.2 | -2.8 | 5.1 | 2 | J |
| 6 | 310 | 11.8 | 18 | J | 6.3 | 58 | 306 | 1.9 | -3.5 | 4.5 | 1 | J |
| 7 | 307 | 11.4 | 17 | J | 7.2 | 4 | 282 | 1.4 | -6.5 | -0.3 | 3 | J |
| 8 | 301 | 10.3 | 12 | J | 6.9 | -46 | 285 | 1.2 | -4.2 | -5.2 | 1 | J |
| 9 | 301 | 10.5 | 12 | J | 6.7 | -23 | 276 | 0.6 | -5.9 | -2.8 | 1 | J |
| 10 | 303 | 11.3 | 14 | J | 6.5 | -13 | 268 | -0.2 | -6.1 | -1.5 | 2 | J |
| 11 | 303 | 13.9 | 13 | J | 6.5 | -30 | 281 | 1.1 | -5.4 | -3.2 | 1 | J |
| 12 | 313 | 16.8 | 14 | J | 6.7 | 16 | 249 | -2.2 | -5.7 | 1.7 | 2 | J |
| 13 | 309 | 15.6 | 15 | J | 7.4 | -33 | 263 | -0.7 | -5.7 | -3.9 | 3 | J |
| 14 | 310 | 16.6 | 18 | J | 7.4 | -37 | 256 | -1.4 | -5.4 | -4.7 | 1 | J |
| 15 | 310 | 16.8 | 14 | J | 7.7 | -45 | 235 | -3.1 | -3.9 | -5.8 | 1 | J |
| 16 | 292 | 13.1 | 0 | C | 8.2 | -16 | 292 | 2.8 | -6.7 | -3.3 | 2 | C |
| 17 | 301 | 13.1 | 12 | J | 7.7 | -45 | 278 | 0.7 | -4.0 | -6.2 | 2 | J |
| 18 | 282 | 11.5 | 20 | J | 7.4 | -58 | 347 | 3.6 | 0.8 | -5.9 | 3 | J |
| 19 | 291 | 14.3 | 25 | J | 6.6 | -26 | 58 | 2.9 | 5.3 | -1.1 | 2 | J |
| 20 | 293 | 16.2 | 22 | J | 6.4 | -15 | 65 | 2.6 | 5.7 | 0.5 | 1 | J |
| 21 | 298 | 16.8 | 25 | J | 6.0 | 7 | 61 | 2.8 | 4.4 | 2.7 | 1 | J |
| 22 | 292 | 16.1 | 26 | J | 6.0 | -18 | 57 | 3.1 | 5.0 | 0.3 | 1 | J |
| 23 | 287 | 16.0 | 36 | J | 5.1 | -72 | 289 | 0.3 | 0.4 | -3.2 | 4 | J |
| 24 | 288 | 16.9 | 16 | J | 5.4 | -85 | 47 | 0.3 | 2.5 | -4.7 | 1 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 291 | 16.0 | 23 | J | 5.2 | -75 | 17 | 1.2 | 2.1 | -4.1 | 2 | J |
| 295 | 16.1 | 27 | J | 4.6 | -58 | 22 | 2.1 | 2.0 | -3.0 | 2 | J |
| 296 | 18.7 | 26 | J | 3.6 | -57 | 28 | 1.7 | 1.8 | -2.6 | 1 | [illegible] |
| 282 | 20.2 | 0 | C | 5.1 | -28 | 31 | 3.8 | 2.9 | -1.6 | 1 | C |
| 306 | 19.2 | 29 | J | 5.0 | 46 | 50 | 2.2 | 1.8 | 4.1 | 1 | J |
| 305 | 20.8 | 32 | J | 5.6 | 34 | 51 | 2.7 | 2.8 | 3.4 | 2 | J |
| 302 | 19.4 | 34 | J | 5.2 | 25 | 69 | 1.4 | 3.5 | 2.3 | 3 | J |
| 293 | 10.2 | 22 | J | 6.8 | -20 | 80 | 1.1 | 6.4 | -1.8 | 1 | J |
| 301 | 9.7 | 23 | J | 6.4 | -35 | 92 | -0.2 | 4.6 | -3.0 | 3 | J |
| 304 | 9.9 | 18 | J | 6.2 | -8 | 79 | 1.0 | 5.4 | -0.7 | 3 | J |
| 303 | 9.1 | 19 | J | 5.9 | 29 | 75 | 1.3 | 4.9 | 2.8 | 1 | J |
| 296 | 10.1 | 31 | J | 5.5 | 17 | 103 | -1.1 | 4.8 | 1.5 | 2 | J |
| 289 | 10.0 | 34 | J | 5.0 | -21 | 98 | -0.4 | 3.2 | -1.2 | 4 | J |
| 307 | 11.0 | 45 | J | 4.3 | 14 | 97 | -0.3 | 2.0 | 0.6 | 4 | J |
| 304 | 11.2 | 46 | J | 3.7 | -19 | 195 | -2.0 | -0.5 | -0.8 | 3 | J |
| 304 | 10.6 | 45 | J | 3.9 | -6 | 152 | -2.7 | 1.5 | -0.1 | 2 | J |
| 311 | 11.2 | 36 | J | 3.6 | 50 | 92 | -0.1 | 1.2 | 2.3 | 3 | J |
| 310 | 12.4 | 35 | J | 3.2 | 22 | 57 | 1.0 | 1.2 | 1.1 | 3 | J |
| 307 | 13.2 | 26 | J | 2.8 | -53 | 110 | -0.6 | 2.1 | -1.6 | 1 | J |
| 304 | 12.1 | 33 | J | 3.2 | -12 | 58 | 1.6 | 2.6 | 0.3 | 1 | J |
| 299 | 16.2 | 23 | J | 2.2 | 10 | 64 | 0.9 | 1.5 | 1.0 | 1 | J |
| 301 | 16.2 | 22 | J | 2.7 | 9 | 73 | 0.7 | 2.1 | 1.4 | 1 | J |
| 287 | 18.4 | 0 | C | 3.3 | 19 | 70 | 1.0 | 2.2 | 2.1 | 1 | C |
| 302 | 16.1 | 18 | J | 3.6 | 21 | 71 | 1.0 | 2.3 | 2.3 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 300 | 16.5 | 15 | J | 3.4 | 29 | 88 | 0.1 | 2.1 | 2.7 | 0 | J |
| 2 | 291 | 15.8 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 305 | 14.5 | 21 | J | 3.6 | 24 | 69 | 1.2 | 2.5 | 2.3 | 1 | J |
| 4 | 300 | 14.4 | 18 | J | 3.8 | 32 | 61 | 1.6 | 2.2 | 2.7 | 1 | J |
| 5 | 297 | 14.4 | 15 | J | 4.4 | 33 | 71 | 1.2 | 2.8 | 3.0 | 1 | J |
| 6 | 298 | 14.4 | 17 | J | 4.0 | 36 | 75 | 0.8 | 2.6 | 2.7 | 1 | J |
| 7 |  |  |  |  | 4.3 | 45 | 45 | 1.2 | 1.0 | 1.9 | 3 | J |
| 8 | 305 | 14.7 | 17 | J | 4.4 | 36 | 14 | 3.2 | 0.6 | 2.5 | 2 | J |
| 9 | 303 | 13.8 | 17 | J | 4.5 | 30 | 4 | 3.9 | 0.2 | 2.3 | 1 | J |
| 10 | 288 | 15.4 | 0 | C | 5.6 | 39 | 10 | 4.2 | 0.7 | 3.5 | 1 | J |
| 11 | 292 | 17.1 | 0 | C | 6.0 | 20 | 65 | 2.1 | 4.6 | 1.8 | 3 | C |
| 12 | 304 | 22.6 | 0 | C | 5.8 | 26 | 43 | 3.7 | 3.5 | 2.5 | 0 | C |
| 13 | 302 | 24.7 | 13 | J | 6.1 | 36 | 66 | 1.9 | 4.3 | 3.5 | 2 | J |
| 14 | 296 | 20.0 | 19 | J | 6.2 | 25 | 49 | 3.6 | 4.0 | 2.7 | 2 | J |
| 15 | 304 | 22.0 | 15 | J | 5.9 | 33 | 53 | 2.9 | 3.5 | 3.4 | 2 | J |
| 16 | 298 | 17.5 | 21 | J | 6.3 | 17 | 49 | 3.8 | 4.1 | 2.4 | 2 | J |
| 17 | 297 | 17.2 | 21 | J | 6.6 | 18 | 41 | 4.7 | 3.6 | 2.8 | 1 | J |
| 18 | 297 | 16.5 | 16 | J | 6.9 | 41 | 33 | 4.4 | 1.6 | 5.1 | 1 | J |
| 19 | 285 | 20.4 | 0 | C | 6.4 | 70 | 332 | 1.9 | -2.7 | 5.1 | 2 | C |
| 20 | 282 | 19.8 | 0 | C | 7.0 | 61 | 49 | 2.1 | 0.2 | 6.3 | 2 | C |
| 21 | 291 | 17.4 | 23 | J | 6.0 | 54 | 348 | 3.4 | -2.5 | 4.1 | 1 | J |
| 22 | 282 | 18.9 | 0 | C | 6.2 | 62 | 348 | 2.8 | -2.6 | 4.6 | 1 | C |
| 23 | 305 | 18.0 | 11 | J | 8.2 | 30 | 57 | 3.2 | 3.1 | 5.1 | 5 | J |
| 24 | 309 | 19.0 | 12 | J | 8.8 | 32 | 60 | 3.6 | 4.0 | 6.6 | 2 | J |

MAY 22, 1980

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 309 | 15.3 | 13 | J | 9.8 | 23 | 65 | 3.8 | 6.1 | 6.5 | 1 | J |
| 304 | 14.7 | 0 | C | 9.8 | 15 | 69 | 3.4 | 7.3 | 5.3 | 1 | C |
| 304 | 14.9 | 0 | C | 8.8 | 35 | 63 | 3.3 | 4.6 | 6.7 | 1 | C |
| 299 | 16.5 | 0 | C | 8.4 | 40 | 60 | 2.9 | 3.6 | 6.0 | 3 | C |
| 309 | 21.8 | 0 | C | 8.5 | 7 | 68 | 3.1 | 7.4 | 2.7 | 1 | C |
| 316 | 26.2 | 0 | C | 9.7 | 22 | 73 | 2.5 | 7.8 | 4.8 | 2 | C |
| 317 | 25.3 | 0 | C | 9.5 | 4 | 74 | 2.1 | 7.3 | 1.4 | 5 | C |
| 328 | 21.6 | 19 | J | 9.6 | 5 | 52 | 5.4 | 6.9 | 1.2 | 4 | J |
| 319 | 28.7 | 22 | J | 7.4 | 25 | 59 | 3.3 | 5.4 | 3.1 | 2 | J |
| 307 | 28.8 | 23 | J | 7.5 | 16 | 29 | 5.7 | 3.2 | 1.9 | 3 | J |
| 303 | 27.1 | 25 | J | 7.0 | 17 | 19 | 5.8 | 2.0 | 1.8 | 3 | J |
| 307 | 23.4 | 18 | J | 6.9 | 26 | 39 | 3.9 | 3.2 | 2.4 | 4 | J |
| 310 | 20.3 | 15 | J | 6.9 | -10 | 60 | 3.2 | 5.6 | -1.1 | 2 | J |
| 313 | 24.5 | 18 | J | 6.1 | -40 | 68 | 1.7 | 4.3 | -3.6 | 2 | J |
| 303 | 22.9 | 13 | J | 7.0 | -27 | 51 | 3.9 | 5.0 | -2.7 | 1 | J |
| 303 | 25.4 | 13 | J | 7.2 | -32 | 52 | 3.6 | 5.1 | -3.0 | 2 | J |
| 305 | 18.9 | 21 | J | 7.8 | -17 | 62 | 2.9 | 5.7 | -0.8 | 4 | J |
| 310 | 18.2 | 25 | J | 8.6 | 14 | 70 | 2.8 | 7.1 | 4.0 | 1 | J |
| 310 | 16.3 | 25 | J | 9.2 | 21 | 74 | 2.4 | 6.9 | 5.6 | 0 | J |
| 307 | 16.1 | 20 | J | 9.2 | 28 | 88 | 0.3 | 6.1 | 6.9 | 1 | J |
| 298 | 17.5 | 0 | C | 9.2 | 32 | 92 | -0.2 | 5.4 | 7.3 | 1 | C |
| 293 | 19.8 | 0 | C | 8.4 | 34 | 114 | -2.8 | 3.9 | 6.8 | 1 | C |
| 293 | 19.6 | 0 | C | 8.2 | 32 | 106 | -1.9 | 4.4 | 6.5 | 1 | C |
| 287 | 21.6 | 0 | C | 6.4 | 39 | 121 | -2.0 | 1.8 | 4.3 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 296 | 24.8 | 0 | C | 5.4 | 27 | 135 | -3.3 | 2.2 | 3.4 | 1 | C |
| 2 | 290 | 21.7 | 0 | C | 6.9 | 5 | 259 | -1.3 | -6.2 | -1.6 | 2 | C |
| 3 | 285 | 14.6 | 0 | C | 7.8 | 7 | 256 | -1.9 | -7.4 | -1.4 | 1 | C |
| 4 | 283 | 12.4 | 0 | C | 8.2 | 25 | 248 | -2.8 | -7.5 | 1.6 | 1 | C |
| 5 | 286 | 15.8 | 0 | C | 6.5 | 26 | 250 | -1.7 | -4.9 | 1.4 | 3 | C |
| 6 | 282 | 16.7 | 0 | C | 6.6 | 16 | 265 | -0.5 | -6.4 | 0.9 | 1 | C |
| 7 | 296 | 12.5 | 13 | J | 6.3 | 14 | 259 | -1.1 | -5.8 | 0.9 | 2 | J |
| 8 | 286 | 10.5 | 12 | J | 6.8 | 22 | 236 | -3.5 | -5.3 | 2.2 | 1 | J |
| 9 | 285 | 8.1 | 12 | J | 7.2 | 23 | 233 | -4.0 | -5.3 | 2.7 | 1 | J |
| 10 | 282 | 9.5 | 11 | J | 6.9 | 29 | 234 | -3.3 | -4.5 | 3.1 | 2 | J |
| 11 | 281 | 11.2 | 16 | J | 6.7 | 30 | 216 | -4.6 | -3.2 | 3.3 | 2 | J |
| 12 | 297 | 10.1 | 24 | J | 7.2 | 5 | 250 | -1.6 | -4.5 | 0.5 | 5 | J |
| 13 | 311 | 17.2 | 19 | J | 4.9 | -44 | 269 | -0.0 | -2.8 | -2.7 | 3 | J |
| 14 | 302 | 11.2 | 10 | J | 6.6 | -66 | 325 | 2.2 | -1.4 | -6.1 | 1 | J |
| 15 | 293 | 6.4 | 7 | L | 7.2 | -57 | 324 | 3.2 | -1.9 | -6.1 | 1 | C |
| 16 | 292 | 6.6 | 7 | L | 7.2 | -58 | 316 | 2.7 | -1.8 | -6.4 | 1 | C |
| 17 | 296 | 10.4 | 0 | C | 7.0 | -52 | 334 | 2.4 | -2.5 | -6.1 | 0 | C |
| 18 | 288 | 10.4 | 0 | C | 5.2 | -46 | 295 | 1.4 | -2.0 | -4.0 | 2 | C |
| 19 | 282 | 12.6 | 0 | C | 4.4 | -38 | 135 | -2.3 | 3.0 | -1.8 | 1 | C |
| 20 | 282 | 12.9 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 272 | 12.5 | 0 | C | 5.2 | -32 | 321 | 3.4 | -1.5 | -3.5 | 1 | C |
| 22 | 277 | 12.0 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 273 | 11.0 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 273 | 11.0 | 0 | C | 4.9 | -23 | 304 | 2.5 | -2.7 | -3.2 | 0 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 277 | 11.3 | 0 | C | 4.5 | -17 | 313 | 2.9 | -2.4 | -2.3 | 1 | C |
| 271 | 11.4 | 0 | C | 4.3 | 0 | 320 | 3.3 | -2.6 | -0.9 | 1 | C |
| 270 | 11.7 | 0 | C | 4.1 | -25 | 310 | 2.2 | -2.0 | -2.3 | 1 | C |
| 266 | 12.0 | 0 | C | 3.6 | -32 | 297 | 1.1 | -1.7 | -2.0 | 2 | C |
| 263 | 12.8 | 0 | C | 3.4 | -74 | 218 | -0.7 | 0.0 | -3.0 | 1 | C |
| 263 | 13.5 | 0 | C | 3.5 | -41 | 164 | -2.4 | 1.0 | -2.1 | 1 | C |
| 268 | 13.7 | 0 | C | 3.9 | -67 | 238 | -0.7 | -0.9 | -3.4 | 2 | C |
| 270 | 14.6 | 0 | C | 4.5 | -60 | 189 | -2.0 | -0.1 | -3.6 | 2 | C |
| 276 | 14.9 | 0 | C | 4.8 | -37 | 173 | -3.7 | 0.5 | -2.8 | 1 | C |
| 286 | 15.2 | 0 | C | 5.3 | -67 | 197 | -1.8 | -0.6 | -4.5 | 2 | C |
| 292 | 16.1 | 0 | C | 6.5 | -52 | 112 | -1.5 | 3.5 | -5.2 | 1 | C |
| 294 | 15.7 | 0 | C | 6.6 | -51 | 102 | -0.9 | 3.8 | -5.2 | 1 | C |
| 301 | 15.7 | 0 | C | 7.8 | -40 | 76 | 1.4 | 5.7 | -5.0 | 1 | C |
| 304 | 17.0 | 0 | C | 8.0 | -47 | 70 | 1.8 | 5.1 | -5.6 | 1 | C |
| 299 | 18.3 | 0 | C | 8.1 | -36 | 87 | 0.3 | 6.7 | -4.2 | 1 | C |
| 298 | 18.9 | 0 | C | 8.8 | -78 | 83 | 0.2 | 2.8 | -8.3 | 1 | C |
| 302 | 20.5 | 0 | C | 9.0 | -77 | 29 | 1.8 | 2.5 | -8.4 | 1 | C |
| 305 | 22.0 | 0 | C | 9.9 | -72 | 12 | 2.8 | 2.7 | -8.3 | 3 | C |
| 304 | 23.6 | 0 | C | 9.6 | -74 | 314 | 1.8 | 0.8 | -9.2 | 1 | C |
| 301 | 25.2 | 0 | C | 10.0 | -72 | 47 | 2.0 | 5.3 | -8.2 | 1 | C |
| 298 | 27.9 | 0 | C | 9.5 | -76 | 54 | 1.3 | 4.9 | -7.7 | 2 | C |
| 296 | 32.9 | 0 | C | 8.8 | -50 | 294 | 2.3 | -2.2 | -8.0 | 1 | C |
| 297 | 35.4 | 0 | C | 9.3 | -39 | 307 | 3.6 | -2.5 | -6.2 | 5 | C |
| 304 | 34.1 | 0 | C | 9.4 | -29 | 78 | 1.0 | 5.5 | -0.7 | 7 | C |

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05/25/80 – 06/01/80

MAY 25, 1980
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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 323 | 26.8 | 0 | C | 9.9 | 43 | 116 | -3.1 | 3.6 | 8.5 | 2 | C |
| 2 | 362 | 25.1 | 0 | C | 15.5 | 16 | 100 | -2.6 | 11.9 | 8.5 | 4 | C |
| 3 | 369 | 29.0 | 0 | C | 16.2 | 41 | 113 | -4.4 | 7.4 | 12.5 | 5 | C |
| 4 | 393 | 30.1 | 0 | C | 17.8 | 42 | 112 | -4.1 | 7.5 | 12.0 | 8 | C |
| 5 | 391 | 33.5 | 0 | C | 18.7 | 32 | 105 | -3.8 | 12.0 | 11.3 | 6 | C |
| 6 | 380 | 33.2 | 0 | C | 18.7 | 1 | 95 | -1.5 | 16.5 | 2.7 | 6 | C |
| 7 | 392 | 25.2 | 0 | C | 17.8 | 2 | 89 | 0.4 | 16.2 | 1.8 | 6 | C |
| 8 | 407 | 18.6 | 0 | C | 19.8 | -14 | 84 | 1.7 | 16.3 | -3.5 | 9 | C |
| 9 | 411 | 21.9 | 0 | C | 20.2 | -42 | 74 | 3.8 | 13.5 | -12.6 | 6 | C |
| 10 | 429 | 27.1 | 0 | C | 19.3 | -49 | 32 | 7.7 | 4.6 | -10.6 | 12 | C |
| 11 | 422 | 26.9 | 0 | C | 19.0 | -75 | 266 | -0.3 | -5.1 | -16.9 | 6 | C |
| 12 | 436 | 25.8 | 0 | C | 18.3 | -50 | 15 | 10.7 | 2.4 | -13.2 | 6 | C |
| 13 | 473 | 25.9 | 0 | C | 14.5 | -49 | 25 | 8.3 | 3.7 | -10.6 | 4 | C |
| 14 | 398 | 23.2 | 0 | C | 10.0 | -62 | 4 | 4.6 | 0.5 | -8.6 | 3 | C |
| 15 | 423 | 12.2 | 0 | C | 6.7 | -56 | 212 | -2.8 | -1.5 | -5.1 | 3 | C |
| 16 | 430 | 11.7 | 0 | C | 6.9 | -23 | 209 | -5.5 | -2.7 | -3.0 | 1 | C |
| 17 | 405 | 12.3 | 0 | C | 6.4 | -2 | 200 | -5.8 | -2.1 | -0.6 | 1 | C |
| 18 | 408 | 12.6 | 0 | C | 6.5 | 20 | 190 | -5.9 | -1.5 | 1.9 | 1 | C |
| 19 | 405 | 12.4 | 0 | C | 6.3 | 19 | 184 | -5.9 | -0.9 | 1.8 | 1 | C |
| 20 | 398 | 11.8 | 0 | C | 6.1 | 16 | 170 | -5.7 | 0.4 | 1.9 | 1 | C |
| 21 | 393 | 12.1 | 0 | C | 5.6 | 10 | 161 | -5.2 | 1.3 | 1.6 | 1 | C |
| 22 | 392 | 12.1 | 0 | C | 5.4 | -2 | 168 | -5.3 | 1.1 | 0.3 | 0 | C |
| 23 | 384 | 11.1 | 0 | C | 5.2 | -3 | 178 | -5.2 | 0.3 | -0.2 | 0 | C |
| 24 | 375 | 10.4 | 0 | C | 5.1 | -1 | 165 | -4.8 | 1.2 | 0.4 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 390 | 9.9 | 0 | C | 5.3 | -27 | 141 | -3.5 | 3.4 | -1.1 | 2 | C |
|  | 405 | 9.1 | 0 | C | 5.5 | -33 | 87 | 0.2 | 4.0 | -1.0 | 3 | C |
|  | 389 | 7.9 | 0 | C | 5.6 | -7 | 182 | -5.1 | 0.0 | -0.7 | 2 | C |
|  | 373 | 6.8 | 0 | C | 5.7 | 6 | 190 | -5.5 | -1.1 | 0.3 | 1 | C |
|  | 369 | 6.4 | 0 | C | 5.5 | 0 | 186 | -5.4 | -0.5 | -0.1 | 1 | C |
|  | 373 | 6.2 | 0 | C | 5.4 | -2 | 175 | -5.4 | 0.5 | -0.2 | 0 | C |
|  | 381 | 7.0 | 0 | C | 5.4 | 14 | 166 | -4.8 | 1.1 | 1.3 | 1 | C |
|  | 375 | 6.9 | 0 | C | 5.9 | 17 | 158 | -4.8 | 1.9 | 1.6 | 2 | C |
|  | 373 | 6.6 | 0 | C | 5.8 | 5 | 137 | -4.1 | 3.8 | 0.5 | 1 | C |
|  | 386 | 6.8 | 0 | C | 5.5 | 22 | 85 | 0.4 | 5.0 | 1.9 | 1 | C |
|  | 388 | 7.0 | 0 | C | 5.7 | 10 | 63 | 2.5 | 4.8 | 0.8 | 1 | C |
|  | 401 | 4.6 | 0 | C | 6.6 | 2 | 44 | 4.7 | 4.6 | 0.0 | 1 | C |
|  | 405 | 3.8 | 0 | C | 6.0 | 27 | 63 | 1.3 | 2.6 | 1.4 | 5 | C |
|  | 382 | 6.6 | 0 | C | 5.9 | 44 | 182 | -4.1 | -0.2 | 4.0 | 1 | C |
|  | 382 | 6.6 | 0 | C | 5.8 | 39 | 191 | -4.3 | -1.1 | 3.5 | 1 | C |
|  | 377 | 7.2 | 0 | C | 5.7 | 52 | 142 | -2.7 | 1.6 | 4.5 | 1 | C |
|  | 373 | 7.6 | 0 | C | 6.2 | 49 | 159 | -3.7 | 0.7 | 4.7 | 1 | C |
|  | 378 | 7.8 | 0 | C | 6.8 | 47 | 139 | -3.5 | 1.8 | 5.5 | 1 | C |
|  | 383 | 7.6 | 0 | C | 6.3 | 14 | 129 | -3.5 | 3.7 | 2.5 | 3 | C |
|  | 383 | 7.7 | 0 | C | 6.7 | 25 | 177 | -5.8 | -0.6 | 2.7 | 2 | C |
|  | 381 | 7.2 | 0 | C | 6.5 | 4 | 216 | -4.7 | -3.3 | -0.8 | 3 | C |
|  | 389 | 5.6 | 0 | C | 6.7 | -11 | 224 | -4.6 | -3.7 | -2.8 | 1 | C |
|  | 389 | 5.3 | 0 | C | 7.0 | -4 | 206 | -6.1 | -2.7 | -1.5 | 1 | C |
|  | 374 | 5.4 | 0 | C | 6.9 | -5 | 207 | -5.9 | -2.6 | -1.6 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 366 | 5.9 | 0 | C | 6.4 | 2 | 208 | -5.2 | -2.7 | -0.6 | 2 | C |
| 2 | 360 | 5.8 | 0 | C | 6.1 | 31 | 193 | -4.7 | -1.8 | 2.5 | 2 | C |
| 3 | 371 | 5.7 | 0 | C | 5.9 | 4 | 197 | -5.3 | -1.7 | -0.0 | 2 | C |
| 4 | 367 | 5.6 | 0 | C | 5.4 | 42 | 78 | 0.9 | 3.2 | 4.2 | 1 | C |
| 5 | 372 | 5.7 | 0 | C | 5.3 | 19 | 150 | -3.6 | 1.9 | 1.7 | 3 | C |
| 6 | 373 | 5.9 | 0 | C | 5.5 | 34 | 133 | -2.9 | 2.8 | 3.1 | 2 | C |
| 7 | 368 | 5.9 | 0 | C | 4.9 | 1 | 125 | -2.6 | 3.7 | 0.2 | 2 | C |
| 8 | 367 | 6.3 | 0 | C | 4.6 | -7 | 108 | -1.3 | 4.0 | -0.6 | 2 | C |
| 9 | 358 | 6.9 | 0 | C | 4.4 | 12 | 139 | -2.9 | 2.6 | 0.7 | 1 | C |
| 10 | 352 | 7.1 | 0 | C | 4.4 | 3 | 158 | -4.0 | 1.6 | 0.1 | 1 | C |
| 11 | 349 | 7.2 | 0 | C | 4.7 | 8 | 154 | -3.8 | 1.9 | 0.6 | 2 | C |
| 12 | 351 | 7.1 | 0 | C | 4.6 | 31 | 142 | -3.0 | 2.5 | 2.2 | 1 | C |
| 13 | 355 | 6.8 | 0 | C | 4.6 | 19 | 136 | -3.0 | 2.9 | 1.4 | 1 | C |
| 14 | 353 | 6.7 | 0 | C | 4.7 | 19 | 126 | -2.5 | 3.4 | 1.6 | 1 | C |
| 15 | 352 | 6.5 | 0 | C | 4.9 | 30 | 134 | -2.9 | 2.7 | 2.7 | 1 | C |
| 16 | 347 | 6.1 | 0 | C | 4.8 | 30 | 139 | -3.0 | 2.2 | 2.7 | 1 | C |
| 17 | 348 | 6.0 | 0 | C | 4.9 | 24 | 132 | -2.9 | 2.7 | 2.6 | 1 | C |
| 18 | 349 | 5.9 | 0 | C | 4.8 | 31 | 123 | -2.2 | 2.6 | 3.3 | 1 | C |
| 19 | 347 | 6.0 | 0 | C | 4.8 | 46 | 147 | -2.6 | 0.6 | 3.6 | 2 | C |
| 20 | 346 | 6.2 | 0 | C | 4.9 | 26 | 101 | -0.8 | 3.1 | 3.3 | 1 | C |
| 21 | 343 | 6.2 | 0 | C | 5.0 | 19 | 82 | 0.6 | 3.6 | 3.1 | 1 | C |
| 22 | 342 | 6.2 | 0 | C | 5.1 | 21 | 74 | 1.3 | 3.5 | 3.3 | 0 | C |
| 23 | 340 | 6.4 | 0 | C | 5.1 | 11 | 101 | -0.9 | 4.1 | 2.6 | 1 | C |
| 24 | 335 | 6.8 | 0 | C |  |  |  |  |  |  |  |  |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 333 | 6.9 | 0 | C | 4.9 | 4 | 136 | -2.9 | 2.5 | 1.2 | 2 | C |
|  | 338 | 7.3 | 0 | C | 5.4 | 29 | 81 | 0.7 | 3.3 | 3.5 | 2 | C |
|  | 338 | 7.8 | 0 | C | 5.7 | 35 | 99 | -0.6 | 3.0 | 3.7 | 3 | C |
|  | 352 | 9.4 | 0 | C | 6.9 | 14 | 87 | 0.3 | 5.3 | 2.7 | 3 | C |
|  | 355 | 10.0 | 0 | C | 7.6 | 30 | 84 | 0.6 | 5.5 | 4.6 | 2 | C |
|  | 350 | 9.8 | 0 | C | 7.0 | 6 | 95 | -0.6 | 6.7 | 1.5 | 1 | C |
|  | 352 | 9.5 | 0 | C | 6.8 | 40 | 101 | -0.9 | 4.6 | 4.4 | 2 | C |
|  | 348 | 9.3 | 0 | C | 6.6 | 31 | 90 | -0.0 | 5.0 | 3.1 | 2 | C |
|  | 340 | 9.1 | 0 | C | 6.6 | 8 | 94 | -0.4 | 5.9 | 0.8 | 2 | C |
|  | 338 | 9.1 | 0 | C |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 350 | 10.7 | 0 | C | 7.0 | 15 | 111 | -2.3 | 5.9 | 1.9 | 2 | C |
|  | 350 | 10.7 | 0 | C | 7.3 | 4 | 118 | -3.1 | 5.8 | 1.0 | 3 | C |
|  | 344 | 10.9 | 0 | C | 7.0 | 6 | 116 | -3.0 | 6.0 | 1.6 | 1 | C |
|  | 339 | 10.6 | 0 | C | 6.7 | 20 | 125 | -3.4 | 4.3 | 3.1 | 2 | C |
|  | 332 | 10.1 | 0 | C | 6.5 | 13 | 115 | -2.5 | 4.7 | 2.7 | 2 | C |
|  | 333 | 10.3 | 0 | C | 6.4 | 17 | 109 | -2.0 | 4.8 | 3.5 | 1 | C |
|  | 334 | 9.7 | 0 | C | 6.2 | 14 | 112 | -2.2 | 4.7 | 3.3 | 1 | C |
|  | 329 | 9.5 | 0 | C | 6.0 | 6 | 111 | -2.1 | 4.8 | 2.6 | 1 | C |
|  | 325 | 9.4 | 0 | C | 6.0 | 7 | 129 | -3.7 | 4.0 | 2.4 | 1 | C |
|  | 315 | 9.0 | 0 | C | 5.9 | 6 | 137 | -4.2 | 3.5 | 2.0 | 1 | C |
|  | 307 | 8.9 | 0 | C |  |  |  |  |  |  |  |  |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 309 | 8.9 | 0 | C | 5.5 | 15 | 118 | -2.4 | 3.8 | 2.8 | 1 | C |
| 2 | 307 | 9.2 | 0 | C | 5.3 | -2 | 96 | -0.6 | 4.9 | 1.4 | 1 | C |
| 3 | 306 | 9.2 | 0 | C | 5.2 | 24 | 107 | -1.3 | 3.6 | 3.0 | 2 | C |
| 4 | 308 | 8.8 | 0 | C | 5.3 | 44 | 98 | -0.5 | 2.8 | 4.2 | 1 | C |
| 5 | 308 | 9.0 | 0 | C | 5.2 | 12 | 93 | -0.2 | 4.2 | 1.6 | 2 | C |
| 6 | 305 | 8.9 | 0 | C | 4.9 | -12 | 92 | -0.1 | 4.5 | -0.4 | 2 | C |
| 7 | 299 | 8.7 | 0 | C | 4.7 | -5 | 111 | -1.6 | 4.2 | -0.2 | 1 | C |
| 8 | 299 | 8.5 | 0 | C | 4.6 | 6 | 122 | -2.2 | 3.5 | 0.5 | 2 | C |
| 9 | 302 | 8.9 | 0 | C | 4.7 | -28 | 140 | -2.8 | 2.4 | -2.0 | 2 | C |
| 10 | 300 | 9.6 | 0 | C | 5.1 | 0 | 129 | -2.9 | 3.6 | -0.2 | 2 | C |
| 11 | 300 | 10.0 | 0 | C | 5.1 | 9 | 139 | -3.5 | 3.1 | 0.6 | 2 | C |
| 12 | 306 | 10.1 | 0 | C | 5.0 | 1 | 81 | 0.7 | 4.6 | -0.2 | 1 | C |
| 13 | 302 | 10.1 | 0 | C | 5.3 | -9 | 75 | 1.3 | 4.9 | -1.1 | 1 | C |
| 14 | 312 | 10.0 | 28 | J | 5.6 | 32 | 129 | -2.3 | 2.9 | 2.2 | 3 | C |
| 15 | 304 | 11.4 | 0 | C | 6.5 | 37 | 115 | -2.2 | 4.5 | 3.9 | 1 | C |
| 16 | 312 | 10.5 | 21 | J | 6.6 | -9 | 116 | -2.4 | 4.9 | -0.4 | 4 | J |
| 17 | 311 | 10.1 | 20 | J | 6.0 | 17 | 115 | -2.0 | 4.0 | 2.0 | 3 | J |
| 18 | 322 | 10.3 | 22 | J | 5.7 | -14 | 108 | -1.4 | 4.6 | -0.2 | 3 | J |
| 19 | 329 | 13.4 | 30 | J | 8.0 | 4 | 117 | -3.0 | 5.5 | 2.0 | 5 | J |
| 20 | 349 | 15.1 | 35 | J | 10.5 | -7 | 125 | -5.1 | 7.3 | 1.2 | 5 | J |
| 21 | 375 | 20.0 | 43 | J | 8.4 | -4 | 122 | -3.6 | 5.6 | 1.5 | 5 | J |
| 22 | 385 | 22.4 | 58 | J | 7.3 | 40 | 360 | 5.3 | -1.6 | 4.1 | 3 | J |
| 23 | 385 | 22.7 | 50 | J | 6.9 | 35 | 350 | 5.4 | -2.3 | 3.2 | 2 | J |
| 24 | 379 | 21.0 | 60 | J | 7.0 | 23 | 348 | 6.1 | -2.1 | 2.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 377 | 20.8 | 67 | J | 7.5 | 29 | 352 | 6.1 | -1.9 | 2.9 | 3 | J |
|  | 352 | 5.9 | 78 | J | 10.5 | 0 | 318 | 7.7 | -6.7 | -1.8 | 2 | J |
|  | 326 | 5.4 | 0 | C | 12.0 | -13 | 310 | 7.3 | -8.2 | -3.9 | 2 | J |
|  | 341 | 3.9 | 47 | J | 11.7 | -8 | 315 | 8.0 | -7.8 | -2.4 | 2 | J |
|  | 327 | 6.3 | 0 | C | 11.4 | -4 | 308 | 6.9 | -8.9 | -1.2 | 1 | C |
|  | 343 | 11.4 | 45 | J | 9.1 | 67 | 56 | 1.9 | 2.7 | 7.8 | 3 | J |
|  | 352 | 12.8 | 56 | J | 10.1 | 55 | 11 | 5.6 | 1.3 | 8.1 | 2 | J |
|  | 356 | 14.7 | 82 | J | 9.6 | 40 | 339 | 6.8 | -2.3 | 6.2 | 2 | J |
|  | 357 | 15.4 | 89 | J | 9.4 | 24 | 315 | 6.0 | -5.7 | 4.2 | 1 | J |
|  | 344 | 9.5 | 44 | J | 10.4 | 44 | 327 | 6.2 | -3.5 | 7.3 | 2 | J |
|  | 342 | 9.3 | 43 | J | 10.3 | 0 | 302 | 5.1 | -8.1 | 0.4 | 4 | J |
|  | 345 | 9.7 | 42 | J | 10.5 | 29 | 329 | 7.0 | -4.1 | 4.6 | 5 | J |
|  | 349 | 10.9 | 44 | J | 10.9 | 34 | 333 | 7.8 | -4.1 | 5.8 | 2 | J |
|  | 357 | 11.0 | 36 | J | 10.5 | 52 | 340 | 4.7 | -2.2 | 6.3 | 7 | J |
|  | 366 | 9.1 | 25 | J | 10.5 | 40 | 54 | 4.7 | 5.5 | 7.5 | 2 | J |
|  | 365 | 8.5 | 23 | J | 9.8 | 40 | 53 | 4.3 | 4.4 | 7.1 | 3 | J |
|  | 363 | 5.0 | 20 | J | 10.0 | 35 | 39 | 6.3 | 3.5 | 6.8 | 2 | J |
|  | 357 | 8.2 | 23 | J | 9.1 | 39 | 40 | 5.3 | 2.6 | 6.7 | 2 | J |
|  | 345 | 10.0 | 19 | J | 8.7 | 29 | 47 | 5.1 | 3.8 | 5.8 | 1 | J |
|  | 347 | 10.2 | 22 | J | 8.1 | 23 | 59 | 3.7 | 4.8 | 5.1 | 2 | J |
|  | 357 | 11.0 | 23 | J | 7.5 | -4 | 58 | 3.8 | 5.8 | 1.7 | 2 | J |
|  | 361 | 12.7 | 25 | J | 6.5 | -38 | 15 | 4.6 | 2.4 | -3.1 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 361 | 12.4 | 18 | J | 6.9 | -34 | 66 | 2.3 | 6.0 | -1.9 | 1 | C |
| 2 | 354 | 9.0 | 19 | J | 6.2 | -48 | 58 | 2.2 | 4.6 | -3.3 | 1 | C |
| 3 | 352 | 7.5 | 17 | J | 6.4 | -48 | 49 | 2.7 | 4.2 | -3.7 | 1 | C |
| 4 | 339 | 10.8 | 0 | C | 6.6 | -51 | 16 | 3.9 | 2.1 | -4.7 | 1 | C |
| 5 | 346 | 9.4 | 20 | J | 6.9 | -54 | 358 | 3.9 | 0.7 | -5.4 | 2 | J |
| 6 | 347 | 8.9 | 21 | J | 7.7 | -39 | 44 | 4.1 | 4.4 | -4.2 | 2 | J |
| 7 | 342 | 7.7 | 19 | J | 8.3 | -22 | 48 | 5.1 | 5.8 | -2.8 | 1 | J |
| 8 | 343 | 7.0 | 19 | J | 8.6 | -18 | 51 | 5.1 | 6.3 | -2.6 | 1 | J |
| 9 | 338 | 7.7 | 19 | J | 8.8 | -18 | 50 | 5.3 | 6.2 | -2.9 | 2 | J |
| 10 | 357 | 10.5 | 18 | J | 7.8 | -35 | 76 | 1.5 | 5.6 | -4.6 | 2 | J |
| 11 | 337 | 9.3 | 0 | C | 7.5 | -41 | 80 | 0.9 | 4.9 | -5.0 | 2 | C |
| 12 | 344 | 9.7 | 29 | J | 6.3 | -69 | 67 | 0.9 | 1.6 | -6.0 | 1 | J |
| 13 | 343 | 7.9 | 23 | J | 7.0 | -80 | 130 | -0.8 | 0.5 | -6.8 | 1 | J |
| 14 | 336 | 6.4 | 18 | J | 7.1 | -77 | 190 | -1.5 | -0.4 | -6.6 | 2 | J |
| 15 | 342 | 6.5 | 20 | J | 6.2 | -73 | 209 | -1.5 | -0.7 | -5.7 | 2 | J |
| 16 | 337 | 6.3 | 16 | J | 5.8 | -67 | 61 | 1.1 | 2.3 | -5.1 | 1 | J |
| 17 | 323 | 6.8 | 0 | C | 6.3 | -68 | 105 | -0.6 | 2.8 | -5.0 | 2 | C |
| 18 | 365 | 3.0 | 39 | J | 5.9 | -24 | 19 | 5.0 | 2.1 | -2.0 | 1 | J |
| 19 | 352 | 2.5 | 30 | J | 6.2 | -31 | 10 | 5.0 | 1.6 | -2.7 | 2 | J |
| 20 | 345 | 3.2 | 25 | J | 6.4 | -36 | 57 | 2.7 | 5.1 | -2.3 | 2 | J |
| 21 | 353 | 4.0 | 25 | J | 6.5 | -21 | 55 | 2.0 | 3.1 | -0.3 | 5 | J |
| 22 | 389 | 11.3 | 31 | J | 8.6 | -34 | 247 | -2.7 | -4.3 | -6.5 | 4 | J |
| 23 | 397 | 12.5 | 44 | J | 11.1 | -46 | 275 | 0.6 | -4.0 | -9.2 | 5 | J |
| 24 | 408 | 10.6 | 30 | J | 11.5 | -20 | 265 | -0.9 | -8.7 | -7.2 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 409 | 7.9 | 28 | J | 11.6 | 28 | 254 | -2.7 | -10.5 | 2.0 | 3 | J |
|  | 414 | 6.6 | 37 | J | 11.7 | 34 | 257 | -2.1 | -10.5 | 3.5 | 3 | J |
|  | 411 | 7.6 | 51 | J | 11.3 | 19 | 264 | -1.1 | -10.6 | 1.0 | 3 | J |
|  | 376 | 9.3 | 33 | J | 12.0 | 2 | 274 | 0.8 | -11.5 | -1.9 | 3 | J |
|  | 371 | 9.0 | 30 | J | 12.7 | -10 | 273 | 0.6 | -11.8 | -3.9 | 2 | J |
|  | 385 | 8.8 | 39 | J | 14.1 | -18 | 257 | -3.0 | -12.6 | -5.5 | 1 | J |
|  | 376 | 9.5 | 29 | J | 14.4 | -24 | 269 | -0.2 | -12.6 | -6.2 | 3 | J |
|  | 378 | 9.2 | 29 | J | 14.7 | -35 | 269 | -0.2 | -12.0 | -8.3 | 2 | J |
|  | 378 | 6.7 | 59 | J | 13.2 | -58 | 256 | -1.7 | -7.1 | -10.7 | 3 | J |
|  | 393 | 6.8 | 68 | J | 12.5 | -69 | 236 | -2.4 | -4.4 | -11.1 | 3 | J |
|  | 374 | 5.6 | 35 | J | 11.3 | -67 | 246 | -1.8 | -4.9 | -10.0 | 1 | J |
|  | 371 | 6.4 | 27 | J | 10.4 | -75 | 243 | -1.2 | -3.2 | -9.8 | 1 | J |
|  | 371 | 6.2 | 32 | J | 9.6 | -76 | 232 | -1.4 | -2.4 | -9.1 | 1 | J |
|  | 364 | 6.7 | 56 | J | 8.0 | -78 | 226 | -1.1 | -1.4 | -7.7 | 1 | J |
|  | 364 | 7.1 | 78 | J | 6.7 | -79 | 228 | -0.8 | -0.9 | -6.4 | 2 | J |
|  | 368 | 6.3 | 90 | J | 6.2 | -75 | 222 | -1.2 | -0.7 | -5.9 | 2 | J |
|  | 372 | 5.2 | 43 | J | 6.5 | -49 | 239 | -2.1 | -2.9 | -5.2 | 2 | J |
|  | 361 | 4.4 | 68 | J | 6.5 | -56 | 234 | -2.1 | -1.8 | -5.7 | 1 | J |
|  | 352 | 6.0 | 0 | C | 6.5 | -72 | 182 | -1.8 | 1.3 | -5.5 | 3 | C |
|  | 336 | 6.6 | 0 | C | 5.6 | -67 | 293 | 0.8 | -0.4 | -5.3 | 1 | C |
|  | 327 | 5.9 | 0 | C | 6.6 | -72 | 278 | 0.3 | 0.1 | -6.2 | 2 | C |
|  | 350 | 5.4 | 48 | J | 4.3 | -67 | 247 | -0.6 | -0.1 | -4.1 | 1 | J |
|  | 343 | 4.6 | 37 | J | 4.3 | -76 | 265 | -0.1 | 0.4 | -4.2 | 1 | J |
|  | 349 | 4.9 | 51 | J | 4.0 | -73 | 264 | -0.1 | 0.2 | -3.9 | 1 | J |

# 06/02/80 – 06/09/80

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 357 | 3.7 | 42 | J | 5.0 | -31 | 251 | -1.2 | -2.6 | -3.2 | 3 | J |
| 2 | 357 | 3.4 | 37 | J | 5.0 | -24 | 245 | -1.9 | -3.3 | -3.0 | 1 | J |
| 3 | 350 | 3.2 | 32 | J | 4.5 | -23 | 259 | -0.8 | -3.5 | -2.7 | 1 | J |
| 4 | 343 | 4.6 | 33 | J | 3.6 | -6 | 292 | 0.3 | -0.7 | -0.2 | 4 | J |
| 5 | 347 | 6.1 | 34 | J | 3.2 | 17 | 50 | 1.8 | 2.1 | 1.2 | 1 | J |
| 6 | 347 | 5.3 | 31 | J | 3.0 | 38 | 11 | 0.9 | 0.1 | 0.8 | 3 | J |
| 7 | 356 | 4.8 | 35 | J | 3.1 | -13 | 258 | -0.6 | -2.9 | -0.8 | 1 | J |
| 8 | 359 | 4.8 | 34 | J | 3.5 | -12 | 262 | -0.5 | -3.4 | -0.7 | 0 | J |
| 9 | 350 | 6.2 | 25 | J | 3.2 | -17 | 267 | -0.2 | -3.1 | -0.8 | 1 | J |
| 10 | 346 | 10.5 | 20 | J | 2.9 | -28 | 187 | -1.5 | -0.2 | -0.8 | 2 | J |
| 11 | 334 | 15.3 | 13 | J | 2.7 | 1 | 145 | -2.0 | 1.4 | -0.1 | 1 | J |
| 12 | 332 | 17.8 | 11 | J | 2.7 | -3 | 149 | -2.2 | 1.3 | -0.3 | 0 | J |
| 13 | 331 | 19.2 | 10 | J | 3.1 | -3 | 148 | -2.6 | 1.6 | -0.3 | 1 | J |
| 14 | 331 | 18.9 | 10 | J | 3.2 | 4 | 133 | -2.2 | 2.3 | 0.1 | 0 | J |
| 15 | 327 | 16.6 | 12 | J | 3.4 | 3 | 137 | -2.4 | 2.2 | 0.2 | 0 | J |
| 16 | 324 | 15.2 | 11 | J | 3.5 | -1 | 145 | -2.9 | 2.0 | 0.1 | 0 | J |
| 17 | 318 | 14.7 | 12 | J | 3.6 | -9 | 153 | -3.1 | 1.6 | -0.4 | 1 | J |
| 18 |  |  |  |  | 3.5 | -14 | 156 | -3.1 | 1.5 | -0.6 | 0 | C |
| 19 |  |  |  |  | 3.7 | 4 | 157 | -3.3 | 1.3 | 0.6 | 1 | C |
| 20 | 310 | 14.5 | 14 | J | 3.7 | -18 | 165 | -3.1 | 1.1 | -0.8 | 1 | J |
| 21 | 307 | 15.1 | 15 | J | 3.5 | -6 | 167 | -3.2 | 0.8 | -0.1 | 1 | J |
| 22 | 308 | 12.8 | 14 | J | 4.0 | -11 | 184 | -3.6 | -0.0 | -0.7 | 1 | J |
| 23 | 309 | 12.9 | 14 | J | 4.5 | -13 | 192 | -4.1 | -0.5 | -1.2 | 1 | J |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

JUN. 3, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 306 | 13.0 | 18 | J | 5.4 | -8 | 200 | -4.8 | -1.5 | -1.2 | 1 | J |
| 2 | 303 | 15.0 | 12 | J | 5.0 | -8 | 208 | -4.3 | -2.0 | -1.3 | 1 | J |
| 3 | 302 | 14.0 | 13 | J | 5.1 | -1 | 211 | -4.3 | -2.5 | -0.7 | 1 | J |
| 4 | 306 | 13.5 | 15 | J | 5.2 | -8 | 202 | -4.8 | -1.8 | -1.1 | 1 | J |
| 5 | 306 | 11.7 | 15 | J | 5.2 | -10 | 207 | -4.5 | -2.1 | -1.2 | 1 | J |
| 6 | 308 | 9.1 | 17 | J | 5.6 | -34 | 201 | -4.3 | -1.4 | -3.2 | 1 | J |
| 7 | 312 | 8.9 | 14 | J | 5.5 | -34 | 207 | -4.0 | -2.0 | -3.1 | 1 | J |
| 8 | 312 | 8.0 | 15 | J | 5.7 | -43 | 207 | -3.6 | -1.9 | -3.8 | 1 | J |
| 9 | 314 | 8.9 | 15 | J | 5.9 | -41 | 204 | -4.0 | -2.0 | -3.7 | 1 | J |
| 10 | 320 | 19.4 | 24 | J | 3.6 | -57 | 198 | -1.7 | -0.8 | -2.7 | 2 | J |
| 11 | 318 | 17.5 | 27 | J | 4.6 | -55 | 209 | -2.3 | -1.6 | -3.6 | 1 | J |
| 12 | 318 | 15.3 | 21 | J | 5.9 | -63 | 177 | -2.6 | -0.3 | -5.2 | 1 | J |
| 13 | 307 | 19.4 | 23 | J | 4.2 | 44 | 254 | -0.6 | -2.0 | 2.4 | 3 | J |
| 14 | 314 | 20.4 | 25 | J | 4.6 | -36 | 182 | -2.7 | -0.2 | -2.0 | 3 | J |
| 15 | 312 | 21.3 | 28 | J | 4.6 | 31 | 214 | -1.1 | -0.7 | 0.8 | 4 | J |
| 16 | 314 | 23.0 | 28 | J | 5.3 | -35 | 133 | -2.6 | 2.9 | -2.5 | 2 | J |
| 17 | 306 | 25.0 | 32 | J | 4.5 | -38 | 178 | -3.4 | 0.4 | -2.6 | 2 | J |
| 18 | 316 | 21.8 | 30 | J | 3.6 | -42 | 262 | -0.3 | -1.6 | -2.0 | 3 | J |
| 19 | 315 | 20.3 | 24 | J | 5.7 | -22 | 272 | 0.2 | -4.3 | -3.1 | 2 | J |
| 20 | 317 | 22.3 | 20 | J | 5.7 | 21 | 252 | -1.6 | -5.1 | 0.6 | 2 | J |
| 21 | 328 | 16.3 | 0 | C | 6.7 | 31 | 253 | -1.6 | -6.2 | 1.6 | 1 | C |
| 22 | 314 | 15.1 | 12 | J | 7.9 | 55 | 255 | -1.1 | -6.1 | 4.6 | 1 | J |
| 23 | 314 | 17.1 | 12 | J | 7.9 | 49 | 274 | 0.3 | -6.6 | 3.8 | 2 | J |
| 24 | 313 | 17.5 | 12 | J | 8.4 | 42 | 275 | 0.5 | -7.6 | 3.3 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 313 | 19.2 | 13 | J | 8.4 | 51 | 276 | 0.5 | -6.8 | 4.6 | 2 | J |
| 2 | 311 | 22.7 | 16 | J | 8.0 | 50 | 270 | -0.0 | -6.6 | 4.6 | 1 | J |
| 3 | 311 | 20.1 | 15 | J | 8.6 | 52 | 284 | 1.3 | -6.4 | 5.4 | 1 | J |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 307 | 19.2 | 12 | J | 10.3 | 38 | 277 | 1.0 | -8.7 | 5.3 | 1 | J |
| 6 | 304 | 17.2 | 0 | C | 10.4 | 52 | 261 | -0.9 | -6.5 | 7.3 | 3 | C |
| 7 | 312 | 26.1 | 17 | J | 10.3 | 59 | 188 | -5.1 | -0.9 | 8.6 | 2 | J |
| 8 | 327 | 24.1 | 32 | J | 10.6 | 56 | 181 | -5.6 | 0.1 | 8.3 | 3 | J |
| 9 | 352 | 20.2 | 97 | J | 8.3 | 34 | 145 | -4.3 | 3.3 | 3.4 | 6 | J |
| 10 | 355 | 20.0 | 119 | L | 8.6 | 38 | 145 | -4.8 | 3.7 | 4.2 | 5 | J |
| 11 | 344 | 16.3 | 100 | L | 10.4 | 47 | 157 | -6.3 | 3.4 | 7.0 | 3 | J |
| 12 | 336 | 10.8 | 102 | L | 11.3 | 40 | 144 | -6.9 | 5.7 | 6.6 | 3 | J |
| 13 | 339 | 11.8 | 101 | L | 11.5 | 38 | 153 | -8.0 | 4.7 | 6.6 | 2 | J |
| 14 | 329 | 11.7 | 91 | L | 11.5 | 8 | 141 | -8.7 | 7.1 | 1.2 | 3 | J |
| 15 | 325 | 16.9 | 0 | C | 11.2 | -21 | 129 | -6.2 | 7.6 | -3.8 | 4 | J |
| 16 | 322 | 16.4 | 0 | C | 10.3 | 3 | 104 | -2.2 | 8.7 | 0.9 | 5 | J |
| 17 | 355 | 12.6 | 0 | C | 10.2 | 9 | 108 | -3.0 | 9.0 | 2.5 | 3 | J |
| 18 | 354 | 12.4 | 0 | C | 9.9 | 11 | 122 | -5.1 | 7.7 | 3.2 | 1 | J |
| 19 | 345 | 7.8 | 92 | L | 10.0 | -1 | 121 | -5.1 | 8.3 | 1.7 | 1 | J |
| 20 | 343 | 7.1 | 79 | L | 10.2 | 9 | 127 | -6.0 | 7.3 | 3.6 | 1 | J |
| 21 | 354 | 6.8 | 115 | L | 8.9 | 0 | 117 | -3.8 | 7.1 | 2.2 | 3 | J |
| 22 | 369 | 6.9 | 117 | L | 9.0 | 0 | 101 | -1.6 | 7.7 | 2.6 | 3 | J |
| 23 | 358 | 6.2 | 87 | L | 8.7 | -3 | 100 | -1.4 | 7.2 | 2.0 | 4 | C |
| 24 | 345 | 7.5 | 0 | C | 9.5 | 24 | 132 | -5.8 | 4.9 | 5.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 345 | 7.5 | 0 | C | 9.8 | 26 | 132 | -5.8 | 5.0 | 5.9 | 1 | C |
| 2 | 392 | 4.2 | 0 | C | 8.9 | 8 | 120 | -4.3 | 7.0 | 3.2 | 1 | C |
| 3 | 407 | 3.8 | 0 | C | 8.6 | 6 | 122 | -4.6 | 6.8 | 2.4 | 1 | C |
| 4 | 410 | 3.2 | 0 | C | 8.7 | 13 | 129 | -5.3 | 6.1 | 3.0 | 1 | C |
| 5 | 404 | 2.8 | 0 | C | 9.0 | 13 | 130 | -5.6 | 6.4 | 2.8 | 1 | C |
| 6 | 406 | 2.6 | 0 | C | 8.9 | 13 | 129 | -5.4 | 6.6 | 2.3 | 1 | C |
| 7 | 406 | 2.4 | 0 | C | 8.8 | 4 | 132 | -5.8 | 6.5 | 0.8 | 1 | C |
| 8 | 414 | 2.4 | 0 | C | 8.5 | -5 | 124 | -4.7 | 6.8 | -0.9 | 1 | C |
| 9 | 421 | 2.4 | 0 | C | 9.0 | -13 | 128 | -5.2 | 6.5 | -2.4 | 2 | C |
| 10 | 420 | 2.3 | 0 | C | 9.6 | -7 | 147 | -7.8 | 5.0 | -1.6 | 2 | C |
| 11 | 425 | 2.3 | 0 | C | 9.4 | 21 | 173 | -8.7 | 1.5 | 3.2 | 1 | C |
| 12 | 435 | 2.2 | 0 | C | 9.1 | 11 | 155 | -8.1 | 3.9 | 1.3 | 1 | C |
| 13 | 432 | 2.1 | 0 | C | 9.1 | 1 | 152 | -7.9 | 4.2 | -0.2 | 1 | C |
| 14 | 425 | 2.0 | 0 | C | 9.4 | -1 | 147 | -7.8 | 5.1 | -0.5 | 1 | C |
| 15 | 429 | 1.9 | 0 | C | 9.5 | -5 | 142 | -7.4 | 5.8 | -0.9 | 0 | C |
| 16 | 417 | 1.7 | 0 | C | 9.9 | -4 | 142 | -7.7 | 6.1 | -0.4 | 1 | C |
| 17 | 395 | 1.6 | 0 | C | 10.3 | -2 | 140 | -7.8 | 6.6 | 0.3 | 1 | C |
| 18 | 373 | 1.5 | 0 | C | 10.6 | 0 | 136 | -7.6 | 7.3 | 1.2 | 1 | C |
| 19 | 368 | 1.5 | 0 | C | 10.9 | 8 | 135 | -7.5 | 7.1 | 3.1 | 2 | C |
| 20 | 374 | 1.6 | 0 | C | 11.0 | 5 | 140 | -8.2 | 6.5 | 2.6 | 1 | C |
| 21 | 363 | 1.5 | 0 | C | 11.1 | 7 | 142 | -8.7 | 6.0 | 3.3 | 1 | C |
| 22 | 366 | 1.5 | 0 | C | 11.3 | 16 | 147 | -8.9 | 4.5 | 4.7 | 2 | C |
| 23 | 377 | 1.5 | 0 | C | 11.2 | 23 | 142 | -8.0 | 4.6 | 6.0 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 335 | 1.6 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 341 | 1.7 | 0 | C | 11.1 | 14 | 136 | -7.7 | 6.8 | 4.1 | 1 | C |
| 4 | 338 | 2.0 | 0 | C | 10.9 | 10 | 128 | -6.6 | 8.0 | 3.2 | 1 | C |
| 5 | 339 | 2.1 | 0 | C | 11.0 | 5 | 126 | -6.3 | 8.7 | 2.0 | 1 | C |
| 6 | 353 | 1.8 | 0 | C | 11.0 | 8 | 124 | -6.0 | 8.9 | 2.0 | 1 | C |
| 7 | 353 | 1.7 | 0 | C | 11.0 | 8 | 127 | -6.5 | 8.6 | 1.6 | 1 | C |
| 8 | 350 | 1.8 | 0 | C | 11.0 | -1 | 122 | -5.8 | 9.3 | -0.5 | 1 | C |
| 9 | 354 | 1.8 | 0 | C | 11.2 | 0 | 126 | -6.6 | 8.9 | -0.7 | 1 | C |
| 10 | 373 | 2.1 | 0 | C | 11.1 | -7 | 110 | -3.5 | 9.7 | -2.3 | 3 | C |
| 11 | 376 | 2.7 | 0 | C | 11.1 | -15 | 110 | -3.6 | 9.3 | -3.8 | 3 | C |
| 12 | 421 | 3.6 | 0 | C | 10.2 | 7 | 130 | -6.5 | 7.8 | 0.3 | 0 | C |
| 13 | 439 | 5.7 | 0 | C | 9.7 | 33 | 154 | -6.9 | 3.9 | 4.7 | 3 | C |
| 14 | 432 | 9.0 | 0 | C | 9.7 | 45 | 155 | -6.2 | 3.3 | 6.6 | 1 | C |
| 15 | 421 | 18.6 | 0 | C | 8.2 | 37 | 139 | -4.7 | 4.1 | 4.6 | 4 | C |
| 16 | 406 | 21.3 | 0 | C | 4.6 | 58 | 132 | -1.2 | 1.2 | 2.8 | 4 | C |
| 17 | 396 | 20.2 | 0 | C | 4.4 | 0 | 112 | -1.2 | 2.8 | 0.2 | 3 | C |
| 18 | 397 | 22.7 | 0 | C | 3.5 | -49 | 47 | 0.8 | 1.0 | -1.1 | 3 | C |
| 19 | 395 | 24.2 | 0 | C | 3.6 | 2 | 175 | -0.5 | 0.0 | 0.0 | 4 | C |
| 20 | 394 | 24.2 | 0 | C | 5.9 | 13 | 121 | -2.9 | 4.4 | 2.6 | 0 | C |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 415 | 20.8 | 0 | C | 5.9 | 4 | 186 | -5.8 | -0.7 | 0.2 | 1 | C |
| 23 | 415 | 20.8 | 0 | C | 3.6 | -14 | 203 | -3.2 | -1.0 | -1.2 | 0 | C |
| 24 | 441 | 48.1 | 0 | C | 5.9 | -1 | 219 | -3.8 | -2.9 | -1.0 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 431 | 46.7 | 0 | C | 14.3 | 43 | 249 | -3.6 | -11.7 | 6.5 | 2 | C |
| 2 | 463 | 22.2 | 0 | C | 17.0 | 33 | 283 | 3.1 | -15.4 | 5.4 | 2 | C |
| 3 | 460 | 25.0 | 0 | C | 14.9 | 48 | 271 | 0.1 | -8.9 | 6.6 | 9 | C |
| 4 | 450 | 23.3 | 0 | C | 14.4 | -33 | 322 | 6.9 | -4.4 | -6.4 | 10 | C |
| 5 | 489 | 13.8 | 0 | C | 14.9 | 0 | 308 | 8.7 | -11.2 | -1.1 | 4 | C |
| 6 | 517 | 12.2 | 0 | C | 11.4 | 22 | 293 | 3.9 | -9.2 | 3.6 | 4 | C |
| 7 | 509 | 11.6 | 0 | C | 10.8 | 1 | 298 | 4.9 | -9.1 | 0.3 | 3 | C |
| 8 | 488 | 10.3 | 0 | C | 12.9 | 11 | 307 | 7.5 | -9.6 | 2.8 | 3 | C |
| 9 | 476 | 11.0 | 0 | C | 13.5 | 25 | 311 | 7.8 | -8.4 | 6.1 | 3 | C |
| 10 | 470 | 11.7 | 0 | C | 13.5 | 22 | 304 | 6.8 | -9.5 | 5.9 | 2 | C |
| 11 | 478 | 11.4 | 0 | C | 13.3 | -3 | 306 | 7.6 | -10.3 | 0.6 | 2 | C |
| 12 | 519 | 10.6 | 0 | C | 11.9 | 13 | 312 | 7.1 | -7.5 | 3.4 | 3 | C |
| 13 | 543 | 10.0 | 0 | C | 11.6 | 17 | 297 | 4.4 | -8.3 | 3.8 | 5 | C |
| 14 | 552 | 9.0 | 0 | C | 11.9 | -24 | 320 | 7.9 | -6.9 | -4.1 | 3 | C |
| 15 | 551 | 9.0 | 0 | C | 13.1 | -2 | 314 | 8.4 | -8.8 | -0.1 | 4 | C |
| 16 | 573 | 9.5 | 0 | C | 12.1 | 47 | 282 | 1.5 | -7.1 | 7.6 | 4 | C |
| 17 | 584 | 9.4 | 0 | C | 10.6 | 15 | 318 | 7.0 | -6.4 | 1.9 | 4 | C |
| 18 | 619 | 7.7 | 0 | C | 10.4 | 63 | 266 | -0.3 | -4.5 | 6.4 | 6 | C |
| 19 | 621 | 7.6 | 0 | C | 10.0 | 63 | 185 | -3.1 | -1.5 | 6.0 | 5 | C |
| 20 | 650 | 6.2 | 0 | C | 10.7 | 39 | 277 | 0.8 | -8.4 | 4.0 | 1 | C |
| 21 | 650 | 6.2 | 0 | C | 10.1 | 30 | 294 | 3.0 | -7.6 | 2.2 | 5 | C |
| 22 | 603 | 5.0 | 0 | C |  |  |  |  |  |  |  |  |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 632 | 4.5 | 0 | C | 8.2 | -33 | 11 | 5.7 | 2.2 | -3.4 | 3 | C |
| 2 | 623 | 3.9 | 0 | C | 8.3 | -44 | 1 | 5.6 | 1.3 | -5.2 | 2 | C |
| 3 | 634 | 3.5 | 0 | C | 8.2 | -23 | 335 | 6.4 | -2.3 | -3.5 | 2 | C |
| 4 | 631 | 3.5 | 0 | C | 7.8 | 4 | 312 | 4.7 | -5.1 | -0.3 | 3 | C |
| 5 | 622 | 3.7 | 0 | C | 7.7 | 14 | 317 | 5.3 | -5.1 | 1.3 | 1 | C |
| 6 | 613 | 3.4 | 0 | C | 7.5 | -14 | 329 | 5.4 | -3.1 | -1.7 | 4 | C |
| 7 | 592 | 3.3 | 0 | C | 7.6 | -9 | 343 | 7.1 | -2.1 | -1.2 | 1 | C |
| 8 | 604 | 3.4 | 0 | C | 7.4 | -5 | 345 | 6.9 | -1.8 | -0.5 | 2 | C |
| 9 | 612 | 3.4 | 0 | C | 7.7 | -17 | 343 | 6.8 | -2.3 | -2.0 | 1 | C |
| 10 | 621 | 3.7 | 0 | C | 7.0 | 8 | 333 | 3.0 | -1.5 | 0.7 | 6 | C |
| 11 | 607 | 3.9 | 0 | C | 6.4 | 1 | 305 | 3.1 | -4.4 | 0.7 | 2 | C |
| 12 | 604 | 3.9 | 0 | C | 6.2 | -5 | 3 | 4.0 | 0.2 | -0.4 | 4 | C |
| 13 | 531 | 4.0 | 0 | C | 5.8 | 16 | 325 | 3.9 | -2.5 | 1.6 | 2 | C |
| 14 | 576 | 3.7 | 0 | C | 6.0 | -6 | 348 | 5.4 | -1.2 | -0.4 | 2 | C |
| 15 | 575 | 3.7 | 0 | C | 5.9 | -32 | 2 | 4.8 | 0.1 | -3.0 | 1 | C |
| 16 | 565 | 3.8 | 0 | C | 5.6 | 32 | 319 | 3.1 | -2.7 | 2.5 | 2 | C |
| 17 | 545 | 3.8 | 0 | C | 5.8 | 10 | 291 | 1.7 | -4.3 | 0.5 | 3 | C |
| 18 | 528 | 3.9 | 0 | C | 5.9 | 6 | 340 | 4.8 | -1.9 | 0.3 | 3 | C |
| 19 | 529 | 3.8 | 0 | C | 5.5 | 19 | 333 | 4.1 | -2.4 | 1.1 | 2 | C |
| 20 | 522 | 4.0 | 0 | C | 5.4 | 29 | 330 | 3.8 | -2.7 | 1.8 | 1 | C |
| 21 | 492 | 5.0 | 0 | C | 5.2 | 34 | 327 | 3.2 | -2.7 | 1.9 | 2 | C |
| 22 | 478 | 5.2 | 0 | C | 5.0 | 14 | 299 | 2.1 | -4.0 | -0.1 | 2 | C |
| 23 | 470 | 5.0 | 0 | C | 4.7 | 33 | 313 | 2.3 | -3.0 | 1.4 | 2 | C |
| 24 | 463 | 4.5 | 0 | C | 5.0 | 26 | 332 | 3.7 | -2.5 | 1.4 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 474 | 4.5 | 0 | C | 4.5 | 20 | 349 | 3.9 | -1.1 | 1.2 | 1 | C |
| 2 | 512 | 4.6 | 0 | C | 3.9 | 71 | 220 | -0.6 | -0.9 | 1.9 | 3 | C |
| 3 | 517 | 4.3 | 0 | C | 4.7 | 1 | 263 | -0.5 | -4.0 | -0.7 | 2 | C |
| 4 | 497 | 4.5 | 0 | C | 5.1 | -4 | 32 | 3.4 | 2.1 | -0.0 | 3 | C |
| 5 | 487 | 4.6 | 0 | C | 5.0 | 12 | 356 | 4.5 | -0.4 | 1.0 | 2 | C |
| 6 | 489 | 4.9 | 0 | C | 5.2 | -2 | 0 | 4.5 | 0.0 | -0.2 | 2 | C |
| 7 | 501 | 5.0 | 0 | C | 5.2 | 56 | 281 | 0.4 | -2.2 | 3.4 | 2 | C |
| 8 | 510 | 5.0 | 0 | C | 4.9 | 23 | 291 | 0.9 | -2.3 | 1.2 | 4 | C |
| 9 | 524 | 4.6 | 0 | C | 5.2 | 48 | 269 | -0.0 | -2.5 | 3.4 | 3 | C |
| 10 | 512 | 4.4 | 0 | C | 5.1 | -59 | 345 | 2.3 | -1.1 | -3.8 | 2 | C |
| 11 | 501 | 4.5 | 0 | C | 4.1 | -28 | 356 | 3.1 | -0.4 | -1.6 | 2 | C |
| 12 | 508 | 4.1 | 0 | C | 4.3 | -41 | 293 | 0.9 | -2.3 | -1.6 | 3 | C |
| 13 | 490 | 4.5 | 0 | C | 4.6 | -34 | 275 | 0.2 | -3.1 | -1.6 | 3 | C |
| 14 | 494 | 4.9 | 0 | C | 4.7 | 15 | 271 | 0.0 | -3.6 | 1.3 | 2 | C |
| 15 | 502 | 5.4 | 0 | C | 4.3 | 11 | 235 | -1.7 | -2.4 | 0.7 | 3 | C |
| 16 | 515 | 5.5 | 0 | C | 4.5 | 24 | 284 | 0.6 | -2.4 | 1.1 | 3 | C |
| 17 | 519 | 5.2 | 0 | C | 4.1 | 55 | 338 | 1.4 | -0.7 | 2.1 | 3 | C |
| 18 | 522 | 4.4 | 0 | C | 4.8 | -26 | 309 | 2.0 | -2.3 | -1.9 | 3 | C |
| 19 | 533 | 4.5 | 0 | C | 5.5 | 30 | 324 | 1.8 | -1.5 | 1.0 | 4 | C |
| 20 | 543 | 5.0 | 0 | C | 7.0 | -11 | 347 | 5.8 | -1.1 | -1.4 | 3 | C |
| 21 | 542 | 5.4 | 0 | C | 7.1 | -33 | 329 | 4.1 | -1.6 | -3.7 | 3 | C |
| 22 | 553 | 5.3 | 0 | C | 7.4 | -46 | 317 | 3.1 | -1.5 | -5.1 | 3 | C |
| 23 | 548 | 5.4 | 0 | C | 7.6 | -30 | 336 | 5.2 | -1.2 | -3.8 | 3 | C |
| 24 | 559 | 5.6 | 0 | C | 7.8 | -53 | 341 | 3.9 | 0.2 | -5.7 | 2 | C |

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OF POOR QUALITY

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 555 | 6.0 | 0 | C | 7.3 | -42 | 343 | 2.7 | -0.1 | -2.7 | 6 | C |
| 2 | 552 | 6.1 | 0 | C | 7.1 | 16 | 309 | 2.5 | -3.3 | 0.4 | 5 | C |
| 3 | 555 | 5.7 | 0 | C | 6.7 | 21 | 40 | 4.0 | 2.9 | 2.6 | 2 | C |
| 4 | 569 | 5.3 | 0 | C | 6.5 | -4 | 314 | 3.3 | -3.3 | -0.8 | 4 | C |
| 5 | 595 | 4.3 | 0 | C | 6.2 | -3 | 317 | 2.7 | -2.4 | -0.4 | 4 | C |
| 6 | 612 | 3.4 | 0 | C | 5.6 | -52 | 9 | 2.7 | 0.6 | -3.5 | 3 | C |
| 7 | 631 | 3.1 | 0 | C | 5.5 | -66 | 10 | 1.6 | 0.2 | -3.6 | 3 | C |
| 8 | 649 | 3.0 | 0 | C | 5.3 | -67 | 19 | 1.4 | 0.2 | -3.4 | 3 | C |
| 9 | 653 | 2.7 | 0 | C | 5.2 | -6 | 310 | 1.2 | -1.4 | -0.0 | 4 | C |
| 10 | 653 | 2.7 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 734 | 3.0 | 0 | C | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 734 | 3.0 | 0 | C | 7.0 | 54 | 241 | -1.8 | -4.6 | 4.2 | 2 | C |
| 22 | | | | | | | | | | | | |
| 23 | 720 | 2.1 | 0 | C | | | | | | | | |
| 24 | 720 | 2.1 | 0 | C | 7.2 | 23 | 243 | -2.8 | -6.0 | 1.0 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 698 | 2.6 | 0 | C | 7.0 | -4 | 244 | -3.0 | -5.9 | -1.8 | 2 | C |
| 3 | 645 | 2.6 | 0 | C | 8.3 | 11 | 263 | -1.0 | -8.1 | 0.2 | 1 | C |
| 4 | 631 | 3.2 | 0 | C | 8.7 | 17 | 266 | -0.6 | -8.4 | 1.4 | 1 | C |
| 5 | 574 | 3.6 | 0 | C | 8.4 | 2 | 288 | 2.4 | -7.4 | -0.3 | 3 | C |
| 6 | 593 | 3.1 | 122 | L | 8.4 | -3 | 290 | 2.8 | -7.7 | -0.6 | 2 | C |
| 7 | 617 | 4.8 | 114 | L | 8.9 | -7 | 310 | 5.6 | -6.6 | -0.8 | 2 | C |
| 8 | 608 | 5.6 | 98 | L | 8.7 | -70 | 300 | 1.1 | -2.4 | -6.0 | 6 | C |
| 9 | 587 | 5.9 | 113 | J | 9.1 | -75 | 208 | -1.9 | -1.9 | -7.7 | 4 | C |
| 10 | 622 | 14.6 | 47 | J | 6.3 | -77 | 243 | -0.6 | -2.0 | -5.6 | 2 | J |
| 11 | 644 | 12.9 | 73 | J | 6.1 | -62 | 233 | -1.7 | -3.0 | -4.9 | 1 | J |
| 12 | 643 | 7.7 | 69 | J | 6.4 | -59 | 198 | -3.1 | -1.8 | -5.2 | 1 | J |
| 13 | 613 | 4.9 | 57 | J | 6.7 | -66 | 209 | -2.3 | -2.1 | -5.8 | 1 | J |
| 14 | 624 | 4.3 | 65 | J | 6.7 | -69 | 223 | -1.8 | -2.3 | -6.0 | 1 | J |
| 15 | 609 | 3.7 | 41 | J | 6.9 | -72 | 222 | -1.6 | -1.8 | -6.5 | 0 | J |
| 16 | 530 | 6.0 | 0 | C | 6.9 | -68 | 214 | -2.1 | -1.5 | -6.4 | 0 | J |
| 17 | 593 | 3.0 | 7 | L | 6.7 | -47 | 175 | -4.6 | 0.7 | -4.9 | 1 | J |
| 18 | 599 | 2.9 | 33 | J | 6.6 | -50 | 185 | -4.2 | 0.2 | -5.1 | 1 | J |
| 19 | 587 | 2.1 | 54 | J | 6.2 | -48 | 187 | -4.1 | 0.3 | -4.6 | 1 | J |
| 20 | 490 | 5.6 | 0 | C | 6.2 | -57 | 235 | -1.9 | -1.5 | -5.5 | 1 | C |
| 21 | 581 | 3.1 | 60 | J | 6.1 | -50 | 200 | -3.6 | -0.1 | -4.8 | 1 | J |
| 22 | 584 | 3.0 | 59 | J | 5.6 | -55 | 202 | -2.9 | 0.1 | -4.7 | 1 | J |
| 23 | 559 | 3.3 | 39 | J | 5.7 | -60 | 228 | -1.9 | -0.7 | -5.3 | 1 | J |
| 24 | 612 | 4.7 | 46 | J | 5.3 | -47 | 190 | -3.2 | 0.4 | -3.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 589 | 4.4 | 53 | J | 5.6 | -48 | 284 | 0.7 | -1.8 | -3.6 | 4 | J |
| 2 | 589 | 4.0 | 47 | J | 5.9 | -19 | 304 | 2.9 | -3.8 | -2.7 | 2 | J |
| 3 | 599 | 2.9 | 44 | J | 5.9 | -20 | 315 | 3.7 | -3.3 | -2.5 | 2 | J |
| 4 | 578 | 3.3 | 54 | J | 5.7 | -19 | 318 | 3.8 | -3.2 | -2.2 | 2 | J |
| 5 | 560 | 2.5 | 49 | J | 5.6 | -9 | 328 | 4.4 | -2.7 | -1.0 | 2 | J |
| 6 | 547 | 2.1 | 31 | J | 5.9 | 15 | 342 | 5.3 | -1.8 | 1.5 | 1 | J |
| 7 | 529 | 2.1 | 34 | J | 6.0 | -28 | 305 | 2.9 | -4.3 | -2.6 | 1 | J |
| 8 | 533 | 2.7 | 35 | J | 6.0 | -43 | 307 | 2.5 | -3.6 | -3.5 | 2 | J |
| 9 | 543 | 2.0 | 45 | J | 6.5 | -54 | 294 | 1.5 | -4.0 | -4.7 | 1 | J |
| 10 | 534 | 2.5 | 45 | J | 7.0 | -46 | 282 | 1.0 | -5.4 | -4.2 | 1 | J |
| 11 | 525 | 2.6 | 47 | J | 6.8 | -48 | 280 | 0.8 | -5.2 | -4.3 | 1 | J |
| 12 | 509 | 2.8 | 44 | J | 6.6 | -54 | 295 | 1.6 | -4.2 | -4.6 | 1 | J |
| 13 | 488 | 2.1 | 25 | J | 6.3 | -51 | 303 | 2.2 | -4.0 | -4.4 | 0 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 449 | 1.8 | 28 | L | 7.6 | -35 | 2 | 5.5 | 0.4 | -3.8 | 1 | J |
| 18 | 521 | 3.2 | 37 | J | 8.2 | -32 | 300 | 3.1 | -4.9 | -4.4 | 4 | J |
| 19 | 504 | 3.6 | 37 | J | 9.4 | -42 | 300 | 3.4 | -4.8 | -7.0 | 2 | J |
| 20 | 514 | 3.5 | 44 | J | 9.1 | -42 | 298 | 3.0 | -4.3 | -6.9 | 3 | J |
| 21 | 516 | 2.5 | 38 | J | 8.7 | -47 | 295 | 2.3 | -3.4 | -6.9 | 3 | J |
| 22 | 499 | 2.8 | 41 | J | 8.5 | -43 | 298 | 2.5 | -3.3 | -6.1 | 4 | J |
| 23 | 505 | 2.6 | 34 | J | 8.5 | -38 | 280 | 1.1 | -4.8 | -6.7 | 2 | J |
| 24 | 479 | 2.6 | 35 | J | 8.1 | -25 | 298 | 3.1 | -4.9 | -4.6 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 444 | 1.4 | 36 | J | 7.8 | -3 | 317 | 5.5 | -4.9 | -1.6 | 2 | J |
| 2 | 473 | 1.6 | 40 | J | 7.2 | -16 | 308 | 3.7 | -4.3 | -2.7 | 3 | J |
| 3 | 513 | 1.8 | 77 | J | 6.4 | -49 | 213 | -3.4 | -1.4 | -4.9 | 2 | J |
| 4 | 512 | 6.5 | 121 | J | 3.1 | -35 | 295 | 0.9 | -1.7 | -1.7 | 2 | J |
| 5 | 417 | 5.3 | 0 | C | 6.3 | -42 | 282 | 1.0 | -4.3 | -4.4 | 1 | C |
| 6 | 391 | 5.0 | 0 | C | 7.3 | -52 | 271 | 0.1 | -4.4 | -5.7 | 1 | C |
| 7 | 375 | 4.9 | 0 | C | 6.9 | -55 | 305 | 2.1 | -3.2 | -5.0 | 2 | J |
| 8 | 434 | 1.6 | 75 | J | 7.0 | -55 | 281 | 0.7 | -4.3 | -5.2 | 2 | J |
| 9 | 436 | 2.0 | 45 | J | 7.0 | -52 | 266 | -0.3 | -4.5 | -4.5 | 3 | J |
| 10 | 520 | 2.2 | 56 | J | 6.9 | -65 | 219 | -2.2 | -2.7 | -5.7 | 2 | J |
| 11 | 436 | 2.2 | 63 | J | 7.0 | -58 | 266 | -0.2 | -4.1 | -4.6 | 3 | J |
| 12 | 450 | 1.9 | 98 | L | 6.6 | -21 | 303 | 3.1 | -5.1 | -1.4 | 2 | J |
| 13 | 407 | 1.7 | 89 | L | 6.7 | -32 | 317 | 3.7 | -3.9 | -2.6 | 3 | J |
| 14 | 441 | 2.0 | 46 | J | 7.0 | -46 | 308 | 2.7 | -3.9 | -4.0 | 3 | J |
| 15 | 427 | 1.9 | 40 | J | 6.6 | -36 | 310 | 3.3 | -4.2 | -3.4 | 1 | J |
| 16 | 445 | 1.8 | 28 | J | 6.7 | -45 | 280 | 0.8 | -4.7 | -4.6 | 1 | J |
| 17 | 459 | 2.1 | 36 | J | 7.0 | -69 | 276 | 0.3 | -2.2 | -6.5 | 1 | J |
| 18 | 475 | 2.6 | 44 | J | 9.3 | -72 | 320 | 1.8 | -0.8 | -7.2 | 5 | J |
| 19 | 425 | 2.1 | 39 | J | 8.7 | -36 | 322 | 5.3 | -3.3 | -5.5 | 2 | J |
| 20 | 423 | 2.2 | 43 | J | 8.4 | -29 | 328 | 5.5 | -2.6 | -4.2 | 4 | J |
| 21 | 405 | 2.1 | 42 | J | 8.1 | -30 | 328 | 4.6 | -2.1 | -3.7 | 5 | J |
| 22 | 450 | 2.7 | 57 | J | 8.5 | -59 | 285 | 0.9 | -1.7 | -6.3 | 5 | J |
| 23 | 461 | 2.8 | 99 | J | 8.1 | 31 | 297 | 3.0 | -6.8 | 2.3 | 2 | J |
| 24 | 474 | 9.2 | 103 | J | 4.7 | 42 | 287 | 0.8 | -3.1 | 1.7 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 485 | 6.5 | 97 | J | 5.8 | 26 | 265 | -0.4 | -5.3 | 1.2 | 3 | J |
| 2 | 476 | 2.6 | 94 | J | 7.3 | 30 | 285 | 1.5 | -6.1 | 2.1 | 3 | J |
| 3 | 469 | 2.3 | 75 | J | 7.4 | 34 | 290 | 2.1 | -6.3 | 3.2 | 1 | J |
| 4 | 461 | 2.4 | 67 | J | 7.8 | 43 | 309 | 3.5 | -4.8 | 4.7 | 2 | J |
| 5 | 444 | 2.7 | 52 | J | 7.7 | 48 | 313 | 3.4 | -4.0 | 5.4 | 2 | J |
| 6 | 427 | 3.1 | 43 | J | 7.7 | 49 | 323 | 4.0 | -3.0 | 5.7 | 0 | J |
| 7 | 454 | 3.1 | 0 | C | 7.5 | 57 | 347 | 3.9 | -0.6 | 6.2 | 1 | J |
| 8 | 452 | 9.0 | 39 | J | 7.0 | 54 | 338 | 3.8 | -1.0 | 5.8 | 1 | J |
| 9 | 454 | 7.3 | 31 | J | 6.8 | 54 | 18 | 3.2 | 1.7 | 4.5 | 4 | J |
| 10 | 451 | 5.9 | 43 | J | 7.0 | 18 | 59 | 3.4 | 5.9 | 1.2 | 1 | J |
| 11 | 453 | 5.9 | 41 | J | 6.2 | 22 | 51 | 3.6 | 4.7 | 1.5 | 1 | J |
| 12 | 451 | 5.7 | 46 | J | 5.4 | 45 | 40 | 2.9 | 3.0 | 3.3 | 1 | J |
| 13 | 457 | 5.6 | 81 | J | 3.7 | -13 | 61 | 1.7 | 2.8 | -1.2 | 1 | J |
| 14 | 450 | 4.2 | 42 | J | 4.8 | -14 | 95 | -0.3 | 3.6 | -1.4 | 3 | J |
| 15 | 463 | 3.7 | 34 | J | 5.0 | -3 | 81 | 0.7 | 4.5 | -0.6 | 2 | J |
| 16 | 473 | 4.2 | 40 | J | 5.1 | -21 | 47 | 2.8 | 3.0 | -1.7 | 3 | J |
| 17 | 449 | 4.3 | 43 | J | 4.7 | -31 | 46 | 1.7 | 1.8 | -1.4 | 4 | J |
| 18 | 427 | 4.2 | 41 | J | 5.0 | -1 | 102 | -0.7 | 3.3 | 0.3 | 4 | J |
| 19 | 417 | 4.1 | 35 | J | 5.4 | 25 | 121 | -2.1 | 3.2 | 2.4 | 3 | C |
| 20 | 421 | 4.5 | 33 | J | 5.7 | -29 | 114 | -1.8 | 4.6 | -1.6 | 2 | J |
| 21 | 431 | 4.5 | 48 | J | 5.4 | -63 | 140 | -1.7 | 2.5 | -4.0 | 2 | J |
| 22 | 427 | 4.5 | 36 | J | 5.4 | -6 | 99 | -0.8 | 5.0 | 0.7 | 2 | J |
| 23 | 430 | 4.0 | 27 | J | 6.0 | 20 | 76 | 1.3 | 4.6 | 3.3 | 2 | J |
| 24 | 447 | 5.2 | 31 | J | 5.9 | 7 | 61 | 2.7 | 4.6 | 1.9 | 1 | J |

JUN. 15, 1980 167

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 436 | 3.8 | 26 | J | 6.5 | 42 | 51 | 2.9 | 2.6 | 4.9 | 1 | J |
| 2 | 431 | 4.2 | 28 | J | 6.2 | 41 | 66 | 1.8 | 3.3 | 4.7 | 1 | J |
| 3 | 427 | 6.1 | 33 | J | 6.1 | 18 | 47 | 3.4 | 3.4 | 2.2 | 3 | J |
| 4 | 422 | 5.5 | 36 | J | 5.2 | -15 | 92 | -0.1 | 3.1 | -0.5 | 4 | J |
| 5 | 396 | 5.5 | 0 | C | 5.4 | -30 | 184 | -4.1 | -0.2 | -2.4 | 3 | J |
| 6 | 389 | 5.5 | 0 | C | 4.9 | 1 | 108 | -1.3 | 4.1 | 0.0 | 2 | J |
| 7 | 386 | 5.0 | 0 | C | 5.4 | 22 | 84 | 0.5 | 4.8 | 1.6 | 2 | J |
| 8 | 393 | 4.6 | 0 | C | 5.3 | 48 | 83 | 0.4 | 3.8 | 3.4 | 2 | J |
| 9 | 403 | 4.2 | 31 | J | 5.2 | 19 | 88 | 0.2 | 4.8 | 0.9 | 2 | J |
| 10 | 398 | 4.5 | 39 | J | 4.6 | 21 | 101 | -0.7 | 4.0 | 0.9 | 2 | J |
| 11 | 388 | 4.6 | 35 | J | 4.8 | 18 | 111 | -1.5 | 4.2 | 0.7 | 2 | J |
| 12 | 378 | 4.1 | 30 | J | 4.8 | -13 | 132 | -3.0 | 3.1 | -1.6 | 1 | J |
| 13 | 378 | 4.2 | 31 | J | 4.6 | -4 | 130 | -2.6 | 3.0 | -0.8 | 2 | J |
| 14 | 375 | 4.4 | 33 | J | 4.4 | 3 | 146 | -3.3 | 2.2 | -0.1 | 2 | J |
| 15 | 375 | 4.7 | 32 | J | 4.3 | 2 | 147 | -3.4 | 2.2 | -0.1 | 2 | J |
| 16 | 376 | 5.4 | 29 | J | 4.5 | 23 | 130 | -2.4 | 2.9 | 1.5 | 2 | J |
| 17 | 391 | 5.8 | 31 | J | 4.8 | 80 | 149 | -0.7 | 0.3 | 4.4 | 2 | J |
| 18 | 380 | 4.9 | 27 | J | 5.1 | 15 | 125 | -2.4 | 3.3 | 1.4 | 3 | J |
| 19 | 386 | 5.3 | 29 | J | 5.3 | 16 | 112 | -1.5 | 3.5 | 1.6 | 3 | J |
| 20 | 393 | 5.4 | 27 | J | 4.8 | 78 | 30 | 0.8 | -0.4 | 4.6 | 1 | J |
| 21 | 389 | 5.4 | 34 | J | 4.6 | -17 | 111 | -1.4 | 3.7 | -0.3 | 2 | J |
| 22 | 386 | 5.7 | 31 | J | 4.7 | -20 | 121 | -2.0 | 3.5 | -0.6 | 2 | J |
| 23 | 377 | 4.5 | 66 | L | 4.4 | 34 | 149 | -2.1 | 0.8 | 1.9 | 3 | J |
| 24 | 379 | 4.2 | 69 | L | 4.7 | 39 | 150 | -1.5 | 0.5 | 1.6 | 4 | J |

JUN. 16, 1980 168

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 376 | 4.2 | 71 | L | 4.8 | 43 | 123 | -1.3 | 1.5 | 2.6 | 3 | C |
| 2 | 377 | 4.3 | 64 | L | 5.1 | 30 | 197 | -3.8 | -1.6 | 2.0 | 2 | C |
| 3 | 358 | 4.1 | 65 | L | 4.8 | 34 | 232 | -2.0 | -2.8 | 1.8 | 2 | C |
| 4 | 352 | 4.2 | 66 | L | 4.4 | 9 | 204 | -3.7 | -1.7 | 0.5 | 1 | C |
| 5 | 352 | 4.0 | 65 | L | 4.4 | 12 | 225 | -2.8 | -2.8 | 0.7 | 1 | C |
| 6 | 364 | 4.1 | 70 | L | 4.3 | -7 | 216 | -3.0 | -2.1 | -0.4 | 2 | C |
| 7 | 357 | 4.1 | 60 | L | 4.4 | -30 | 195 | -3.3 | -1.0 | -1.9 | 2 | J |
| 8 | 354 | 3.8 | 65 | L | 4.2 | -22 | 170 | -2.7 | 0.4 | -1.2 | 3 | J |
| 9 | 363 | 3.9 | 65 | L | 4.4 | -2 | 234 | -2.5 | -3.4 | 0.3 | 1 | J |
| 10 | 351 | 4.0 | 64 | L | 4.2 | 1 | 187 | -3.6 | -0.4 | 0.1 | 2 | J |
| 11 | 350 | 4.2 | 68 | L | 4.7 | -7 | 177 | -4.3 | 0.1 | -0.6 | 2 | J |
| 12 | 362 | 5.3 | 76 | L | 4.9 | -13 | 169 | -3.8 | 0.6 | -1.0 | 3 | J |
| 13 | 357 | 4.8 | 68 | L | 5.5 | -14 | 187 | -4.7 | -0.8 | -1.1 | 2 | J |
| 14 | 368 | 5.9 | 62 | L | 6.2 | -48 | 177 | -3.8 | -0.4 | -4.2 | 2 | J |
| 15 | 385 | 6.0 | 52 | L | 6.0 | -80 | 151 | -0.7 | -0.1 | -4.3 | 4 | J |
| 16 | 365 | 7.2 | 0 | C | 6.5 | -83 | 239 | -0.4 | -0.9 | -5.9 | 3 | J |
| 17 | 358 | 7.6 | 0 | C | 5.9 | -49 | 136 | -2.8 | 2.7 | -4.3 | 0 | C |
| 18 | 356 | 7.1 | 0 | C | 5.4 | -36 | 54 | 2.3 | 3.4 | -2.6 | 2 | J |
| 19 | 363 | 7.0 | 0 | C | 5.2 | -52 | 61 | 1.5 | 3.1 | -3.5 | 2 | J |
| 20 | 350 | 6.9 | 0 | C | 5.1 | -7 | 131 | -2.5 | 2.9 | 0.1 | 3 | J |
| 21 | 322 | 3.7 | 47 | L | 5.1 | -7 | 151 | -4.1 | 2.3 | -0.1 | 2 | J |
| 22 | 320 | 3.7 | 47 | L | 4.9 | -2 | 171 | -4.7 | 0.8 | 0.0 | 1 | J |
| 23 | 336 | 5.9 | 0 | C | 4.6 | -27 | 106 | -1.1 | 4.1 | -1.0 | 1 | J |
| 24 | 331 | 4.8 | 0 | C | 4.9 | -22 | 109 | -1.4 | 4.4 | -0.8 | 1 | J |

JUN. 17, 1980 169

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 343 | 4.5 | 0 | C | 5.2 | -16 | 98 | -0.7 | 5.0 | -0.4 | 1 | C |
| 2 | 347 | 3.8 | 0 | C | 5.4 | -2 | 89 | 0.1 | 5.1 | 0.7 | 1 | C |
| 3 | 339 | 2.8 | 46 | L | 5.0 | -20 | 102 | -1.0 | 4.7 | -1.1 | 1 | J |
| 4 | 345 | 2.7 | 50 | L | 4.9 | -25 | 97 | -0.5 | 4.4 | -1.6 | 1 | J |
| 5 | 340 | 2.8 | 51 | L | 4.6 | 12 | 103 | -1.0 | 4.3 | 1.1 | 1 | J |
| 6 | 344 | 4.0 | 0 | C | 4.7 | -12 | 115 | -1.9 | 4.1 | -1.0 | 1 | J |
| 7 | 350 | 3.9 | 0 | C | 4.4 | -14 | 122 | -2.2 | 3.5 | -1.3 | 1 | J |
| 8 | 339 | 4.9 | 17 | J | 4.1 | 7 | 120 | -2.0 | 3.5 | 0.1 | 1 | J |
| 9 | 339 | 4.4 | 18 | J | 5.0 | -9 | 120 | -2.4 | 4.0 | -1.4 | 3 | J |
| 10 | 339 | 4.5 | 19 | J | 4.0 | -2 | 126 | -2.3 | 3.2 | -0.7 | 0 | J |
| 11 | 314 | 4.9 | 27 | J | | | | | | | | |
| 12 | 339 | 5.4 | 22 | J | | | | | | | | |
| 13 | 329 | 5.1 | 16 | J | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 331 | 4.8 | 0 | C | 4.4 | 0 | 144 | -3.6 | 2.6 | -0.2 | 0 | C |
| 16 | 331 | 4.8 | 0 | C | 4.2 | 5 | 147 | -3.5 | 2.3 | 0.2 | 0 | C |
| 17 | 322 | 5.2 | 0 | C | 4.0 | 11 | 150 | -3.4 | 2.0 | 0.8 | 0 | C |
| 18 | 321 | 5.7 | 0 | C | 4.1 | 14 | 146 | -3.2 | 2.1 | 1.1 | 0 | C |
| 19 | 317 | 5.8 | 0 | C | 4.0 | 5 | 139 | -3.0 | 2.5 | 0.7 | 0 | C |
| 20 | 317 | 6.1 | 0 | C | 3.7 | 7 | 141 | -2.8 | 2.1 | 0.8 | 1 | C |
| 21 | 317 | 6.4 | 0 | C | 3.7 | -12 | 141 | -2.7 | 2.2 | -0.3 | 1 | C |
| 22 | 317 | 6.7 | 0 | C | 3.2 | -10 | 135 | -2.3 | 2.3 | -0.0 | 0 | C |
| 23 | 318 | 7.3 | 0 | C | 3.1 | -3 | 143 | -2.4 | 1.8 | 0.3 | 0 | C |
| 24 | 310 | 7.9 | 0 | C | 2.6 | 21 | 133 | -1.3 | 1.2 | 1.0 | 1 | C |

### JUN. 18, 1980 170

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 315 | 7.7 | 0 | C | 3.0 | 5 | 146 | -2.5 | 1.6 | 0.6 | 0 | C |
| 2 | 310 | 8.0 | 0 | C | 3.1 | 3 | 150 | -2.6 | 1.4 | 0.4 | 0 | C |
| 3 | 307 | 8.0 | 0 | C | 3.2 | -4 | 151 | -2.8 | 1.5 | -0.0 | 0 | C |
| 4 | 306 | 8.9 | 0 | C | 2.7 | -2 | 151 | -2.3 | 1.3 | 0.0 | 0 | C |
| 5 | 302 | 9.6 | 0 | C | 2.6 | 2 | 148 | -2.2 | 1.3 | 0.1 | 0 | C |
| 6 | 295 | 10.1 | 0 | C | 2.5 | -2 | 141 | -1.9 | 1.5 | -0.1 | 1 | C |
| 7 | 294 | 11.9 | 0 | C | 1.7 | 13 | 146 | -1.3 | 0.9 | 0.3 | 1 | C |
| 8 | 288 | 13.4 | 0 | C | 1.3 | 57 | 128 | -0.4 | 0.6 | 0.9 | 0 | C |
| 9 | 286 | 13.1 | 0 | C | 1.5 | 3 | 20 | 0.5 | 0.2 | -0.0 | 1 | C |
| 10 | 285 | 12.5 | 0 | C | 2.1 | 3 | 356 | 2.0 | -0.1 | 0.1 | 1 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 290 | 9.7 | 0 | C | | | | | | | | |
| 16 | 290 | 9.7 | 0 | C | 4.5 | 13 | 346 | 4.2 | -1.0 | 1.1 | 1 | C |
| 17 | 293 | 9.1 | 0 | C | 4.6 | 19 | 1 | 4.3 | 0.1 | 1.5 | 0 | C |
| 18 | 284 | 11.4 | 0 | C | 4.2 | 20 | 41 | 2.2 | 1.9 | 1.2 | 3 | C |
| 19 | 298 | 20.9 | 0 | C | 2.7 | -25 | 184 | -2.3 | -0.0 | -1.1 | 1 | C |
| 20 | 285 | 15.5 | 0 | C | 3.5 | -22 | 187 | -3.1 | -0.2 | -1.3 | 1 | C |
| 21 | 282 | 17.7 | 0 | C | 3.2 | -27 | 201 | -2.6 | -0.7 | -1.6 | 1 | C |
| 22 | | | | | | | | | | | | |
| 23 | 273 | 18.3 | 0 | C | 3.4 | 11 | 132 | -2.2 | 2.2 | 1.2 | 1 | C |
| 24 | 268 | 19.3 | 0 | C | 3.5 | 2 | 118 | -1.6 | 2.9 | 0.8 | 1 | C |

### JUN. 19, 1980 171

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 270 | 19.8 | 0 | C | 2.8 | 10 | 145 | -2.1 | 1.3 | 0.7 | 1 | C |
| 2 | 268 | 22.8 | 0 | C | 3.3 | 16 | 159 | -2.9 | 1.0 | 1.1 | 1 | C |
| 3 | 268 | 26.0 | 0 | C | 3.6 | 3 | 130 | -2.3 | 2.7 | 0.5 | 1 | C |
| 4 | 261 | 33.7 | 0 | C | 4.0 | -13 | 125 | -2.2 | 3.2 | -0.6 | 0 | C |
| 5 | | | | | | | | | | | | |
| 6 | 270 | 30.1 | 0 | C | 5.9 | -59 | 192 | -2.6 | -0.7 | -4.5 | 3 | C |
| 7 | 269 | 24.6 | 0 | C | 6.4 | -21 | 285 | 1.4 | -5.5 | -1.7 | 2 | C |
| 8 | 271 | 25.9 | 0 | C | 6.6 | -28 | 284 | 1.2 | -4.9 | -1.9 | 3 | C |
| 9 | 276 | 21.4 | 0 | C | 7.1 | 1 | 83 | 0.7 | 5.5 | -0.8 | 4 | C |
| 10 | 281 | 21.9 | 0 | C | 6.4 | 30 | 70 | 1.7 | 5.0 | 1.9 | 3 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 297 | 16.3 | 0 | C | | | | | | | | |
| 17 | 297 | 16.3 | 0 | C | 9.0 | -29 | 290 | 2.5 | -7.1 | -4.1 | 2 | C |
| 18 | 296 | 15.8 | 0 | C | 9.7 | -41 | 291 | 2.5 | -6.0 | -6.2 | 3 | C |
| 19 | 290 | 17.3 | 0 | C | 9.5 | -21 | 295 | 3.4 | -7.0 | -4.0 | 3 | C |
| 20 | 290 | 25.6 | 0 | C | 7.9 | 9 | 125 | -2.0 | 2.7 | 1.0 | 7 | C |
| 21 | 302 | 14.0 | 0 | C | 11.2 | 18 | 104 | -2.7 | 9.5 | 5.3 | 0 | C |
| 22 | 303 | 14.7 | 0 | C | 9.9 | 28 | 109 | -2.7 | 7.0 | 6.2 | 2 | C |
| 23 | 310 | 19.8 | 0 | C | 7.7 | 21 | 119 | -3.4 | 5.4 | 4.0 | 1 | C |
| 24 | 303 | 20.6 | 0 | C | 6.6 | -17 | 121 | -0.8 | 1.4 | -0.2 | 6 | C |

### JUN. 20, 1980 172

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 308 | 13.8 | 0 | C | 9.3 | 30 | 124 | -4.4 | 5.7 | 5.7 | 1 | C |
| 2 | 314 | 12.2 | 0 | C | 9.7 | 39 | 131 | -4.8 | 4.5 | 6.8 | 2 | C |
| 3 | 324 | 12.4 | 0 | C | 9.7 | 49 | 126 | -3.5 | 4.0 | 7.5 | 3 | C |
| 4 | 334 | 13.0 | 0 | C | 9.7 | 43 | 118 | -3.2 | 5.6 | 6.8 | 1 | C |
| 5 | 337 | 13.2 | 0 | C | 9.9 | 28 | 97 | -0.9 | 7.8 | 4.3 | 4 | C |
| 6 | 322 | 13.1 | 0 | C | 10.1 | 15 | 118 | -4.2 | 8.2 | 2.1 | 3 | C |
| 7 | 322 | 13.1 | 0 | C | 9.8 | -9 | 121 | -4.7 | 7.7 | -2.1 | 2 | C |
| 8 | 324 | 13.2 | 0 | C | 9.9 | 27 | 129 | -5.3 | 7.0 | 3.3 | 2 | C |
| 9 | 327 | 13.6 | 0 | C | 9.6 | 24 | 126 | -4.8 | 7.3 | 2.5 | 2 | C |
| 10 | 330 | 13.5 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 352 | 10.6 | 0 | C | | | | | | | | |
| 18 | 352 | 10.6 | 0 | C | 7.2 | 13 | 98 | -0.8 | 5.5 | 1.6 | 3 | C |
| 19 | 359 | 9.3 | 0 | C | 8.0 | 22 | 87 | 0.3 | 6.7 | 3.6 | 2 | C |
| 20 | 359 | 9.5 | 0 | C | 7.6 | 9 | 91 | -0.2 | 6.7 | 2.1 | 2 | C |
| 21 | 364 | 9.2 | 0 | C | 8.2 | 15 | 80 | 1.4 | 7.0 | 3.5 | 2 | C |
| 22 | 361 | 9.0 | 0 | C | 8.2 | 22 | 96 | -0.8 | 6.6 | 4.5 | 1 | C |
| 23 | 366 | 8.7 | 0 | C | 8.3 | 25 | 82 | 1.0 | 6.4 | 4.9 | 2 | C |
| 24 | 361 | 9.4 | 0 | C | 7.6 | 19 | 97 | -0.9 | 6.2 | 3.7 | 2 | C |

### JUN. 21, 1980 173

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 353 | 9.8 | 0 | C | 7.0 | 27 | 108 | -1.4 | 3.9 | 3.1 | 4 | C |
| 2 | 355 | 9.7 | 0 | C | 7.4 | 12 | 91 | -0.1 | 5.8 | 2.2 | 4 | C |
| 3 | 345 | 9.5 | 0 | C | 7.3 | 11 | 119 | -2.8 | 4.9 | 1.6 | 4 | C |
| 4 | 343 | 9.4 | 0 | C | 7.4 | 17 | 122 | -3.4 | 5.4 | 2.2 | 3 | C |
| 5 | 338 | 8.5 | 0 | C | 7.2 | 13 | 145 | -5.0 | 3.6 | 1.5 | 3 | C |
| 6 | 345 | 8.7 | 0 | C | 7.2 | -3 | 115 | -2.5 | 5.5 | -0.6 | 3 | C |
| 7 | 357 | 8.9 | 0 | C | 5.7 | -6 | 100 | -0.8 | 4.6 | -1.0 | 3 | C |
| 8 | 365 | 8.7 | 0 | C | 4.9 | 30 | 147 | -2.8 | 2.0 | 1.6 | 3 | C |
| 9 | 371 | 8.3 | 0 | C | 5.0 | 17 | 117 | -1.5 | 3.0 | 0.4 | 3 | C |
| 10 | 375 | 7.9 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 369 | 7.6 | 0 | C | | | | | | | | |
| 18 | 369 | 7.6 | 0 | C | 5.1 | -20 | 109 | -1.0 | 3.0 | -1.0 | 4 | C |
| 19 | 363 | 7.1 | 0 | C | 5.3 | 38 | 116 | -1.8 | 3.2 | 3.5 | 1 | C |
| 20 | 363 | 6.8 | 0 | C | 5.3 | 34 | 127 | -2.2 | 2.5 | 2.8 | 3 | C |
| 21 | 357 | 7.8 | 0 | C | 4.6 | -7 | 149 | -3.1 | 2.0 | -0.1 | 2 | C |
| 22 | 354 | 7.6 | 0 | C | 4.9 | 9 | 163 | -4.4 | 1.2 | 1.0 | 1 | C |
| 23 | 359 | 7.7 | 0 | C | 4.8 | 25 | 187 | -3.9 | -0.9 | 1.7 | 2 | C |
| 24 | 357 | 7.7 | 0 | C | 4.9 | 15 | 190 | -4.4 | -1.0 | 1.0 | 1 | C |

### JUN. 22, 1980 174

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 7.8 | 0 | C | 5.0 | 15 | 192 | -4.6 | -1.2 | 1.0 | 1 | C |
| 2 | 351 | 7.7 | 0 | C | 5.0 | -3 | 164 | -4.7 | 1.4 | -0.1 | 1 | C |
| 3 | 354 | 7.6 | 0 | C | 4.5 | 10 | 153 | -3.6 | 1.8 | 0.9 | 2 | C |
| 4 | 354 | 7.9 | 0 | C | 4.9 | -4 | 139 | -3.1 | 2.7 | -0.2 | 2 | C |
| 5 | 357 | 8.0 | 0 | C | 4.9 | -8 | 118 | -1.8 | 3.4 | -0.6 | 2 | C |
| 6 | 359 | 8.2 | 0 | C | 4.6 | 46 | 121 | -1.2 | 2.2 | 2.4 | 3 | C |
| 7 | 354 | 8.4 | 0 | C | 4.8 | -4 | 133 | -2.9 | 3.1 | -0.6 | 2 | C |
| 8 | 357 | 8.6 | 0 | C | 4.8 | -6 | 179 | -1.6 | 0.0 | -0.2 | 4 | C |
| 9 | 355 | 8.6 | 0 | C | 5.0 | 30 | 226 | -2.7 | -2.3 | 2.8 | 2 | C |
| 10 | 350 | 8.6 | 0 | C | 5.2 | 49 | 207 | -2.8 | -0.6 | 3.8 | 2 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 348 | 7.8 | 0 | C | | | | | | | | |
| 17 | 348 | 7.8 | 0 | C | 5.0 | 29 | 122 | -2.1 | 3.4 | 2.1 | 2 | C |
| 18 | 350 | 7.6 | 0 | C | 4.5 | -7 | 112 | -0.9 | 2.2 | -0.2 | 4 | C |
| 19 | 357 | 7.8 | 0 | C | 4.2 | -59 | 101 | -0.4 | 2.2 | -3.0 | 1 | C |
| 20 | 357 | 7.6 | 0 | C | 3.9 | -53 | 152 | -1.7 | 1.3 | -2.5 | 2 | C |
| 21 | 353 | 7.6 | 0 | C | 4.2 | -14 | 129 | -1.9 | 2.4 | -0.3 | 3 | C |
| 22 | 344 | 7.4 | 0 | C | 4.3 | -23 | 180 | -2.4 | 0.2 | -1.0 | 3 | C |
| 23 | 351 | 7.2 | 0 | C | 4.2 | -41 | 197 | -2.9 | -0.4 | -2.8 | 1 | C |
| 24 | 366 | 7.3 | 0 | C | 4.6 | -62 | 188 | -2.1 | 0.5 | -3.9 | 1 | C |

### JUN. 23, 1980 175

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 7.4 | 0 | C | 4.5 | -39 | 152 | -2.7 | 1.8 | -2.2 | 2 | C |
| 2 | 354 | 7.3 | 0 | C | 4.6 | 35 | 114 | -1.3 | 2.5 | 2.5 | 2 | C |
| 3 | 351 | 7.0 | 0 | C | 4.8 | 12 | 104 | -1.0 | 4.1 | 1.3 | 2 | C |
| 4 | 353 | 6.8 | 0 | C | 4.9 | 14 | 93 | -0.2 | 4.2 | 1.2 | 2 | C |
| 5 | 350 | 6.9 | 0 | C | 5.1 | 0 | 104 | -1.1 | 4.5 | -0.0 | 2 | C |
| 6 | 349 | 7.0 | 0 | C | 4.9 | 12 | 127 | -1.9 | 2.7 | 0.5 | 3 | C |
| 7 | 349 | 7.2 | 0 | C | 4.8 | 30 | 136 | -1.5 | 1.6 | 1.0 | 4 | C |
| 8 | 346 | 7.2 | 0 | C | 4.6 | 5 | 116 | -1.8 | 3.6 | -0.2 | 1 | C |
| 9 | 349 | 7.4 | 0 | C | 5.1 | 49 | 122 | -1.4 | 2.7 | 2.5 | 3 | C |
| 10 | 355 | 7.6 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 345 | 6.5 | 0 | C | | | | | | | | |
| 16 | 345 | 6.5 | 0 | C | 5.2 | 52 | 177 | -3.2 | 0.5 | 4.0 | 1 | C |
| 17 | 343 | 6.7 | 0 | C | 5.0 | 23 | 144 | -3.0 | 2.2 | 1.5 | 3 | C |
| 18 | 340 | 6.9 | 0 | C | 4.7 | -29 | 124 | -1.8 | 2.7 | -1.7 | 3 | C |
| 19 | 335 | 5.2 | 26 | J | 4.4 | -22 | 179 | -3.7 | 0.2 | -1.5 | 2 | J |
| 20 | 336 | 5.2 | 24 | J | 4.3 | -29 | 172 | -3.4 | 0.7 | -1.8 | 2 | J |
| 21 | 335 | 5.2 | 26 | J | 4.6 | -18 | 182 | -4.2 | 0.1 | -1.4 | 1 | J |
| 22 | 330 | 5.0 | 25 | J | 4.5 | -12 | 165 | -4.0 | 1.2 | -0.7 | 1 | J |
| 23 | 328 | 4.8 | 27 | J | 4.2 | 12 | 145 | -2.8 | 1.8 | 1.1 | 2 | J |
| 24 | 322 | 4.8 | 26 | J | 4.5 | 17 | 166 | -3.8 | 0.7 | 1.4 | 1 | J |

### JUN. 24, 1980 176

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 326 | 5.5 | 23 | J | 4.6 | 24 | 141 | -3.0 | 2.1 | 2.1 | 1 | J |
| 2 | 327 | 5.9 | 29 | J | 4.5 | 34 | 150 | -2.9 | 1.4 | 2.4 | 2 | J |
| 3 | 329 | 6.0 | 32 | J | 4.4 | 36 | 176 | -3.4 | 0.0 | 2.5 | 1 | J |
| 4 | 452 | 20.6 | 107 | J | 13.3 | 24 | 113 | -4.5 | 10.4 | 5.5 | 4 | J |
| 5 | 448 | 28.2 | 133 | J | 11.9 | 14 | 125 | -5.8 | 8.4 | 2.4 | 6 | J |
| 6 | 438 | 34.4 | 80 | J | 9.0 | 0 | 117 | -3.5 | 6.9 | -0.5 | 5 | J |
| 7 | 423 | 36.7 | 78 | J | 14.0 | 52 | 159 | -6.5 | 3.5 | 8.5 | 8 | J |
| 8 | 417 | 40.1 | 71 | J | 13.0 | 17 | 334 | 5.0 | -2.1 | 2.1 | 12 | J |
| 9 | 407 | 41.5 | 47 | J | 12.3 | -11 | 314 | 7.9 | -8.5 | -0.5 | 4 | J |
| 10 | 397 | 38.6 | 45 | J | 10.9 | -16 | 314 | 7.0 | -7.7 | -1.2 | 2 | J |
| 11 | 386 | 33.6 | 46 | J | 9.5 | -18 | 326 | 7.1 | -5.3 | -1.5 | 3 | J |
| 12 | 388 | 30.6 | 57 | J | 9.4 | -25 | 344 | 7.4 | -2.9 | -3.0 | 4 | J |
| 13 | 390 | 30.6 | 58 | J | 8.7 | -8 | 2 | 8.5 | 0.0 | -1.2 | 2 | J |
| 14 | 383 | 29.4 | 51 | J | 7.1 | -7 | 335 | 5.8 | -2.8 | -0.2 | 3 | J |
| 15 | 369 | 27.5 | 44 | J | 5.5 | -29 | 306 | 2.2 | -3.3 | -1.6 | 3 | J |
| 16 | 367 | 25.7 | 35 | J | 5.6 | -47 | 289 | 1.1 | -3.7 | -3.4 | 2 | J |
| 17 | 360 | 24.0 | 38 | J | 5.0 | -24 | 316 | 3.0 | -2.9 | -1.7 | 2 | J |
| 18 | 362 | 23.2 | 39 | J | 4.1 | 11 | 268 | -0.1 | -3.8 | 0.7 | 1 | J |
| 19 | 366 | 22.3 | 38 | J | 4.2 | 7 | 280 | 0.7 | -3.8 | 0.2 | 2 | J |
| 20 | 357 | 20.8 | 37 | J | 5.2 | 5 | 268 | -0.2 | -4.8 | -0.2 | 2 | J |
| 21 | 352 | 19.0 | 38 | J | 6.1 | -42 | 287 | 1.2 | -3.3 | -4.3 | 3 | J |
| 22 | 344 | 19.2 | 40 | J | 6.4 | -69 | 320 | 1.6 | -0.3 | -5.6 | 3 | J |
| 23 | 342 | 20.8 | 32 | J | 5.2 | -71 | 41 | 1.2 | 1.9 | -4.4 | 2 | J |
| 24 | 350 | 12.9 | 36 | J | 9.0 | -25 | 88 | 0.3 | 8.2 | -2.2 | 3 | J |

### JUN. 25, 1980 177

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 348 | 8.2 | 36 | J | 9.0 | -30 | 84 | 0.8 | 8.3 | -3.2 | 2 | J |
| 2 | 355 | 7.5 | 30 | J | 9.1 | -7 | 96 | -0.9 | 8.7 | -0.0 | 3 | J |
| 3 | 352 | 6.8 | 25 | J | 9.0 | -1 | 97 | -1.1 | 8.6 | 0.5 | 2 | J |
| 4 | 346 | 6.6 | 29 | J | 8.9 | -17 | 94 | -0.6 | 8.3 | -2.3 | 2 | J |
| 5 | 346 | 6.9 | 25 | J | 8.6 | -25 | 95 | -0.6 | 7.0 | -3.5 | 3 | J |
| 6 | 352 | 9.0 | 22 | J | 8.3 | -15 | 97 | -1.0 | 7.6 | -2.7 | 2 | J |
| 7 | 355 | 9.7 | 33 | J | 7.0 | 17 | 109 | -1.3 | 3.8 | 0.7 | 6 | J |
| 8 | 350 | 13.1 | 39 | J | 7.2 | 5 | 111 | -2.5 | 6.6 | -0.5 | 2 | J |
| 9 | 336 | 13.7 | 32 | J | 8.1 | 52 | 128 | -2.9 | 4.9 | 5.2 | 3 | J |
| 10 | 335 | 12.7 | 34 | J | 8.0 | 49 | 108 | -1.5 | 5.9 | 4.4 | 3 | J |
| 11 | 334 | 12.5 | 33 | J | 8.6 | 43 | 107 | -1.7 | 6.7 | 3.8 | 4 | J |
| 12 | 339 | 11.0 | 30 | J | 8.3 | 49 | 111 | -1.8 | 5.9 | 4.4 | 3 | J |
| 13 | 337 | 8.9 | 29 | J | 8.8 | 37 | 99 | -1.0 | 7.5 | 3.3 | 3 | J |
| 14 | 337 | 8.1 | 27 | J | 9.2 | 54 | 95 | -0.5 | 6.5 | 5.9 | 3 | J |
| 15 | 343 | 9.5 | 41 | J | 8.3 | 70 | 111 | -1.0 | 3.9 | 7.3 | 1 | J |
| 16 | 343 | 7.2 | 39 | J | 9.2 | 71 | 126 | -1.7 | 3.3 | 8.2 | 1 | J |
| 17 | 348 | 7.5 | 34 | J | 9.5 | 79 | 221 | -1.3 | -0.7 | 9.2 | 2 | J |
| 18 | 359 | 7.1 | 33 | J | 10.0 | 78 | 185 | -2.0 | -0.3 | 9.3 | 3 | J |
| 19 | 359 | 9.1 | 27 | J | 10.0 | 57 | 139 | -3.9 | 2.9 | 8.3 | 3 | J |
| 20 | 363 | 14.4 | 15 | J | 9.9 | 72 | 169 | -3.0 | -0.5 | 9.3 | 1 | J |
| 21 | 366 | 14.2 | 28 | J | 8.4 | 58 | 227 | -2.7 | -3.9 | 5.9 | 4 | J |
| 22 | 366 | 19.4 | 52 | J | 6.9 | 33 | 248 | -1.9 | -5.2 | 2.4 | 3 | J |
| 23 | 358 | 18.3 | 73 | J | 6.0 | -31 | 277 | 0.6 | -4.4 | -3.9 | 2 | J |
| 24 | 348 | 16.9 | 83 | J | 6.8 | -39 | 300 | 2.5 | -3.6 | -4.7 | 2 | J |

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06/26/80 – 07/03/80

## JUN. 26, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 376 | 19.7 | 78 | J | 5.4 | -28 | 159 | -2.3 | 1.1 | -1.2 | 5 | J |
| 2 | 393 | 21.7 | 71 | J | 6.1 | -15 | 237 | -3.0 | -4.4 | -2.0 | 3 | J |
| 3 | 404 | 14.0 | 48 | J | 8.3 | 32 | 241 | -2.9 | -5.5 | 3.4 | 5 | J |
| 4 | 397 | 10.4 | 37 | J | 12.1 | 75 | 50 | 1.9 | 2.0 | 11.1 | 4 | J |
| 5 | 390 | 9.3 | 42 | J | 11.8 | 68 | 328 | 3.5 | -1.9 | 10.4 | 4 | J |
| 6 | 390 | 10.9 | 106 | J | 11.6 | 23 | 324 | 7.3 | -5.0 | 4.3 | 6 | J |
| 7 | 376 | 7.6 | 90 | J | 11.3 | 17 | 295 | 4.1 | -8.3 | 4.1 | 5 | J |
| 8 | 373 | 8.1 | 0 | C | 11.7 | 39 | 306 | 4.4 | -4.9 | 7.0 | 7 | J |
| 9 | 370 | 5.7 | 0 | C | 12.2 | 18 | 284 | 2.7 | -9.9 | 6.0 | 3 | J |
| 10 | 395 | 4.2 | 77 | J | 11.9 | -25 | 277 | 1.3 | -11.1 | -2.2 | 4 | J |
| 11 | 377 | 5.2 | 76 | J | 11.2 | -12 | 297 | 4.8 | -9.8 | 0.2 | 3 | J |
| 12 | 368 | 4.8 | 73 | J | 11.1 | -26 | 306 | 5.5 | -8.6 | -2.5 | 4 | J |
| 13 | 391 | 4.8 | 83 | J | 10.8 | -43 | 290 | 2.6 | -8.7 | -5.1 | 3 | J |
| 14 | 379 | 4.1 | 60 | J | 10.5 | -47 | 297 | 3.2 | -7.7 | -6.0 | 2 | J |
| 15 | 389 | 5.7 | 36 | J | 10.6 | -40 | 283 | 1.6 | -7.8 | -4.6 | 5 | J |
| 16 | 373 | 5.9 | 26 | J | 10.5 | -53 | 303 | 3.4 | -6.1 | -7.6 | 2 | J |
| 17 | 379 | 5.6 | 28 | J | 10.2 | -64 | 288 | 1.3 | -4.6 | -8.6 | 3 | J |
| 18 | 391 | 7.1 | 21 | J | 11.0 | -55 | 304 | 3.4 | -5.0 | -8.6 | 3 | J |
| 19 | 393 | 7.7 | 26 | J | 11.3 | -82 | 353 | 1.5 | 0.5 | -10.9 | 2 | J |
| 20 | 390 | 7.9 | 21 | J | 10.8 | -73 | 46 | 2.2 | 3.3 | -9.8 | 2 | J |
| 21 | 372 | 7.7 | 24 | J | 10.1 | -26 | 337 | 7.3 | -2.5 | -4.3 | 5 | J |
| 22 | 387 | 8.7 | 25 | J | 9.5 | 11 | 318 | 6.6 | -6.1 | 0.7 | 3 | J |
| 23 | 387 | 12.9 | 24 | J | 8.1 | 32 | 302 | 3.6 | -6.5 | 3.2 | 0 | J |
| 24 | 388 | 8.1 | 21 | J | 7.8 | 36 | 297 | 2.9 | -6.3 | 3.6 | 1 | J |

## JUN. 28, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 4.2 | 13 | J | 5.9 | -7 | 282 | 1.2 | -5.6 | -1.5 | 0 | J |
| 2 | 356 | 2.5 | 21 | L | 5.7 | -5 | 285 | 1.5 | -5.4 | -1.0 | 0 | J |
| 3 | 361 | 4.0 | 14 | J | 5.6 | 2 | 280 | 1.0 | -5.5 | -0.1 | 0 | J |
| 4 | 343 | 4.1 | 0 | C | 5.6 | 8 | 284 | 1.3 | -5.3 | 0.7 | 1 | J |
| 5 | 335 | 4.2 | 0 | C | 5.7 | 12 | 291 | 2.0 | -5.1 | 1.4 | 0 | C |
| 6 | 312 | 4.8 | 0 | C | 5.7 | 2 | 290 | 1.9 | -5.3 | 0.8 | 0 | C |
| 7 | 325 | 4.1 | 0 | C | 5.7 | 4 | 305 | 3.3 | -4.5 | 1.1 | 1 | C |
| 8 | 351 | 2.5 | 22 | J | 5.7 | -1 | 306 | 3.3 | -4.5 | 0.8 | 1 | J |
| 9 | 351 | 2.8 | 25 | J | 5.8 | 8 | 311 | 3.8 | -4.0 | 1.8 | 1 | J |
| 10 | 346 | 2.4 | 17 | J | 5.7 | 3 | 314 | 4.0 | -3.9 | 1.3 | 0 | J |
| 11 | 348 | 2.4 | 18 | J | 5.6 | 10 | 323 | 4.3 | -2.9 | 1.8 | 1 | J |
| 12 | 329 | 1.6 | 45 | L | 5.5 | 15 | 326 | 4.4 | -2.5 | 2.2 | 0 | J |
| 13 | 325 | 1.6 | 43 | L | 5.5 | 13 | 330 | 4.6 | -2.2 | 1.8 | 1 | J |
| 14 | 332 | 1.8 | 58 | L | 5.3 | -5 | 327 | 4.3 | -2.8 | 0.2 | 1 | J |
| 15 | 331 | 1.3 | 20 | J | 5.1 | -3 | 325 | 3.7 | -2.6 | 0.2 | 2 | J |
| 16 | 321 | 1.8 | 35 | L | 5.3 | 26 | 331 | 4.0 | -1.9 | 2.5 | 1 | J |
| 17 | 321 | 1.8 | 33 | L | 5.5 | 22 | 321 | 3.8 | -2.9 | 2.2 | 1 | J |
| 18 | 339 | 2.8 | 0 | C | 5.5 | 25 | 329 | 4.0 | -2.4 | 2.2 | 2 | J |
| 19 | 317 | 2.5 | 18 | J | 5.6 | 26 | 354 | 4.7 | -0.6 | 2.3 | 2 | J |
| 20 | 318 | 2.5 | 22 | J | 5.5 | 25 | 337 | 4.6 | -2.2 | 2.1 | 1 | J |
| 21 | 327 | 2.4 | 21 | J | 5.4 | 29 | 323 | 3.4 | -2.9 | 2.0 | 2 | J |
| 22 | 333 | 2.3 | 15 | J | 5.4 | 24 | 310 | 3.0 | -3.8 | 1.5 | 2 | J |
| 23 | 332 | 2.6 | 18 | J | 5.6 | 21 | 322 | 4.0 | -3.4 | 1.5 | 1 | J |
| 24 | 346 | 2.9 | 20 | J | 5.3 | 6 | 294 | 2.0 | -4.6 | -0.2 | 2 | J |

## JUN. 30, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 339 | 7.8 | 24 | J | 6.1 | -45 | 302 | 2.2 | -3.0 | -4.5 | 2 | J |
| 2 | 294 | 8.7 | 36 | J | 6.8 | -12 | 302 | 3.0 | -4.8 | -1.7 | 3 | C |
| 3 | 309 | 7.9 | 24 | J | 7.1 | 17 | 291 | 2.4 | -6.3 | 1.8 | 1 | C |
| 4 | 339 | 5.6 | 45 | L | 7.1 | 15 | 286 | 1.8 | -6.3 | 1.8 | 2 | C |
| 5 | 326 | 5.0 | 37 | L | 7.6 | 23 | 285 | 1.7 | -6.2 | 3.2 | 2 | C |
| 6 | 354 | 6.4 | 39 | L | 7.9 | 34 | 282 | 1.3 | -5.9 | 5.1 | 0 | C |
| 7 | 338 | 5.7 | 46 | L | | | | | | | | |
| 8 | 332 | 8.6 | 0 | C | 7.4 | 1 | 302 | 3.8 | -5.8 | 1.4 | 2 | C |
| 9 | 332 | 8.4 | 0 | C | 7.3 | 40 | 299 | 2.6 | -3.5 | 5.6 | 1 | C |
| 10 | 347 | 10.1 | 0 | C | 4.4 | 31 | 239 | -1.4 | -1.8 | 2.2 | 2 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 348 | 8.9 | 0 | C | 5.7 | -36 | 97 | -0.5 | 3.5 | -3.9 | 1 | C |
| 16 | 348 | 8.9 | 0 | C | 4.8 | -31 | 287 | 1.1 | -3.8 | -1.7 | 2 | C |
| 17 | 343 | 8.3 | 0 | C | 4.8 | 16 | 305 | 2.3 | -3.1 | 1.4 | 2 | C |
| 18 | 351 | 8.2 | 0 | C | 4.8 | -19 | 305 | 2.4 | -3.5 | -1.3 | 1 | C |
| 19 | 349 | 7.9 | 0 | C | 4.4 | 5 | 334 | 3.6 | -1.8 | 0.3 | 1 | C |
| 20 | 344 | 7.8 | 0 | C | 4.2 | -9 | 335 | 3.3 | -1.5 | -0.7 | 2 | C |
| 21 | 345 | 7.1 | 0 | C | 4.0 | -33 | 358 | 2.7 | 0.1 | -1.8 | 2 | C |
| 22 | 340 | 7.1 | 0 | C | 4.2 | 15 | 341 | 3.4 | -1.3 | 0.8 | 2 | C |
| 23 | 343 | 5.8 | 0 | C | 4.7 | -37 | 317 | 2.4 | -1.8 | -2.7 | 2 | C |
| 24 | 344 | 6.2 | 0 | C | 5.1 | -45 | 308 | 1.9 | -2.1 | -3.5 | 2 | C |

## JUL. 2, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 329 | 8.8 | 0 | C | 5.9 | 35 | 253 | -1.3 | -4.6 | 2.7 | 2 | C |
| 2 | 325 | 8.2 | 0 | C | 5.3 | 46 | 241 | -1.6 | -3.2 | 3.3 | 2 | C |
| 3 | 328 | 8.2 | 0 | C | 4.9 | 26 | 234 | -2.4 | -3.3 | 1.9 | 2 | C |
| 4 | 323 | 7.5 | 0 | C | 4.6 | 51 | 269 | -0.0 | -2.7 | 3.5 | 1 | C |
| 5 | 325 | 7.2 | 0 | C | 4.3 | 76 | 314 | 0.5 | -0.3 | 3.2 | 2 | C |
| 6 | 328 | 7.4 | 0 | C | 5.6 | 18 | 228 | -3.6 | -3.7 | 2.2 | 1 | C |
| 7 | 326 | 7.9 | 0 | C | 6.0 | 42 | 216 | -3.6 | -1.8 | 4.3 | 1 | C |
| 8 | 324 | 9.2 | 0 | C | 5.5 | 27 | 220 | -3.6 | -2.4 | 2.9 | 2 | C |
| 9 | 317 | 8.5 | 0 | C | 5.1 | -7 | 246 | -2.0 | -4.5 | 0.6 | 1 | C |
| 10 | 320 | 8.5 | 0 | C | 4.7 | 18 | 235 | -2.6 | -3.1 | 2.4 | 1 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 281 | 7.7 | 0 | C | | | | | | | | |
| 16 | 281 | 7.7 | 0 | C | 4.3 | 9 | 348 | 4.1 | -0.7 | 0.8 | 0 | C |
| 17 | 282 | 7.9 | 0 | C | 4.4 | -1 | 345 | 4.2 | -1.2 | 0.1 | 0 | C |
| 18 | 284 | 8.2 | 0 | C | 4.5 | -10 | 345 | 4.3 | -1.2 | -0.7 | 0 | C |
| 19 | 282 | 6.6 | 0 | C | 4.7 | -24 | 350 | 4.1 | -0.7 | -1.9 | 1 | C |
| 20 | 288 | 8.7 | 0 | C | 4.7 | -26 | 338 | 3.5 | -1.3 | -2.0 | 2 | C |
| 21 | 289 | 8.3 | 0 | C | 4.8 | 14 | 286 | 1.2 | -4.5 | 0.7 | 1 | C |
| 22 | 290 | 8.4 | 0 | C | 4.7 | 22 | 276 | 0.4 | -4.5 | 1.2 | 1 | C |
| 23 | 293 | 9.4 | 0 | C | 4.3 | 24 | 277 | 0.5 | -3.9 | 1.2 | 1 | C |
| 24 | 291 | 8.2 | 0 | C | 4.7 | 2 | 266 | -0.3 | -4.5 | -0.4 | 1 | C |

## JUN. 27, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 386 | 6.3 | 21 | J | 7.9 | 32 | 287 | 2.0 | -6.9 | 3.3 | 1 | J |
| 2 | 384 | 8.8 | 28 | J | 6.5 | 36 | 277 | 0.6 | -5.5 | 3.2 | 1 | J |
| 3 | 376 | 9.2 | 23 | J | 6.4 | 29 | 287 | 1.6 | -5.4 | 2.7 | 1 | J |
| 4 | 370 | 9.4 | 20 | J | 6.6 | 26 | 298 | 2.8 | -5.3 | 2.8 | 0 | J |
| 5 | 363 | 7.1 | 0 | C | | | | | | | | |
| 6 | 362 | 6.8 | 0 | C | 6.7 | 27 | 302 | 3.2 | -4.7 | 3.4 | 1 | C |
| 7 | 372 | 6.6 | 21 | J | 6.5 | 24 | 307 | 3.5 | -4.3 | 3.2 | 1 | J |
| 8 | 370 | 5.5 | 21 | J | 6.5 | 14 | 308 | 3.9 | -4.6 | 2.5 | 1 | J |
| 9 | 372 | 5.3 | 23 | J | 6.2 | 18 | 317 | 4.3 | -3.5 | 2.8 | 1 | J |
| 10 | 371 | 5.0 | 20 | J | 6.1 | 12 | 315 | 4.1 | -3.7 | 2.2 | 1 | J |
| 11 | 370 | 3.7 | 20 | J | 6.2 | 13 | 308 | 3.7 | -4.2 | 2.6 | 1 | J |
| 12 | 369 | 4.2 | 18 | J | 5.8 | 20 | 322 | 4.3 | -2.7 | 2.8 | 1 | J |
| 13 | 364 | 4.2 | 16 | J | 5.7 | 15 | 328 | 4.6 | -2.4 | 2.1 | 1 | J |
| 14 | 365 | 3.3 | 17 | J | 5.7 | 10 | 322 | 4.4 | -3.2 | 1.7 | 1 | J |
| 15 | 362 | 2.7 | 16 | J | 5.7 | 10 | 323 | 4.5 | -3.1 | 1.6 | 0 | J |
| 16 | 371 | 2.5 | 22 | J | 5.4 | 7 | 327 | 4.5 | -2.8 | 1.0 | 1 | J |
| 17 | 365 | 2.9 | 17 | J | 5.6 | 14 | 334 | 4.7 | -2.2 | 1.5 | 1 | J |
| 18 | 364 | 2.9 | 15 | J | 5.6 | 19 | 328 | 4.9 | -2.8 | 1.8 | 1 | J |
| 19 | 361 | 3.0 | 14 | J | 5.5 | 21 | 317 | 3.8 | -3.6 | 1.8 | 0 | J |
| 20 | 352 | 2.2 | 17 | L | 5.4 | 17 | 324 | 4.1 | -3.1 | 1.2 | 1 | J |
| 21 | 359 | 4.6 | 16 | J | 5.4 | 19 | 320 | 3.8 | -3.4 | 1.3 | 1 | J |
| 22 | 353 | 2.4 | 17 | L | 5.4 | 20 | 313 | 3.5 | -4.0 | 1.2 | 1 | J |
| 23 | 375 | 9.2 | 24 | J | 5.5 | 10 | 301 | 2.8 | -4.7 | 0.2 | 1 | J |
| 24 | 351 | 3.3 | 16 | J | 5.6 | 6 | 299 | 2.7 | -4.9 | -0.2 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 2.9 | 19 | J | 5.3 | 11 | 268 | -0.2 | -5.1 | 0.3 | 1 | J |
| 2 | 353 | 3.3 | 22 | J | 5.5 | 16 | 289 | 1.7 | -4.9 | 1.0 | 1 | C |
| 3 | 349 | 3.2 | 19 | J | 5.6 | 21 | 292 | 1.9 | -4.8 | 1.7 | 1 | C |
| 4 | 328 | 3.0 | 12 | J | 5.7 | 34 | 311 | 3.0 | -3.4 | 3.1 | 1 | C |
| 5 | 339 | 3.5 | 18 | J | 5.3 | 52 | 335 | 2.2 | -0.9 | 3.1 | 3 | J |
| 6 | 361 | 3.4 | 0 | C | 5.0 | 24 | 310 | 2.9 | -3.2 | 2.3 | 1 | J |
| 7 | 338 | 3.8 | 24 | J | 4.2 | -33 | 352 | 3.2 | -0.8 | -2.0 | 2 | J |
| 8 | 336 | 3.7 | 24 | J | 4.2 | 10 | 343 | 3.8 | -1.0 | 0.9 | 1 | J |
| 9 | 336 | 3.8 | 26 | J | 4.2 | 12 | 346 | 3.7 | -0.7 | 1.0 | 2 | J |
| 10 | 338 | 4.8 | 24 | J | 4.6 | -13 | 320 | 3.1 | -2.8 | -0.2 | 2 | J |
| 11 | 339 | 4.8 | 22 | J | 4.6 | -28 | 316 | 2.8 | -3.2 | -1.2 | 1 | J |
| 12 | 331 | 4.5 | 32 | J | 4.7 | 10 | 332 | 3.7 | -1.7 | 1.2 | 2 | J |
| 13 | | | | | 4.9 | 59 | 307 | 1.3 | -0.7 | 4.0 | 2 | J |
| 14 | | | | | 4.0 | -25 | 322 | 2.4 | -2.2 | -1.0 | 2 | J |
| 15 | 333 | 6.1 | 0 | C | 4.7 | -40 | 351 | 3.5 | -1.1 | -2.8 | 1 | J |
| 16 | 333 | 6.1 | 0 | C | 5.5 | -34 | 342 | 4.2 | -1.8 | -2.8 | 1 | C |
| 17 | 328 | 6.4 | 0 | C | 5.5 | -1 | 13 | 3.5 | 0.8 | -0.1 | 4 | J |
| 18 | 326 | 6.9 | 0 | C | 5.6 | 13 | 290 | 1.8 | -4.8 | 1.3 | 2 | J |
| 19 | 337 | 5.7 | 35 | J | 5.5 | 18 | 304 | 2.9 | -4.3 | 1.5 | 1 | J |
| 20 | 332 | 5.0 | 18 | J | 6.3 | 10 | 297 | 2.7 | -5.4 | 0.6 | 1 | J |
| 21 | 331 | 4.5 | 19 | J | 6.2 | 23 | 304 | 3.0 | -4.7 | 1.7 | 2 | J |
| 22 | 344 | 7.3 | 22 | J | 5.7 | -42 | 114 | -1.7 | 4.3 | -3.2 | 1 | J |
| 23 | 344 | 8.7 | 25 | J | 5.8 | -75 | 140 | -1.1 | 1.7 | -5.2 | 1 | J |
| 24 | 343 | 8.0 | 23 | J | 6.1 | -71 | 287 | 0.5 | -1.0 | -5.6 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 333 | 6.7 | 0 | C | 5.1 | 17 | 301 | 2.2 | -3.8 | 0.9 | 2 | C |
| 2 | 334 | 6.9 | 0 | C | 5.0 | -12 | 340 | 4.3 | -1.5 | -1.1 | 1 | C |
| 3 | | | | | | | | | | | | |
| 4 | 325 | 6.7 | 0 | C | | | | | | | | |
| 5 | 325 | 6.7 | 0 | C | 5.6 | -3 | 3 | 5.3 | 0.2 | -0.3 | 2 | C |
| 6 | 328 | 6.7 | 0 | C | 5.5 | 14 | 340 | 4.7 | -1.5 | 1.4 | 2 | C |
| 7 | 324 | 6.8 | 0 | C | 5.4 | 7 | 336 | 4.8 | -2.0 | 1.0 | 1 | C |
| 8 | 333 | 6.8 | 0 | C | 5.5 | -8 | 307 | 3.3 | -4.4 | 0.1 | 0 | C |
| 9 | 320 | 6.3 | 0 | C | 5.5 | -2 | 305 | 3.1 | -4.3 | 0.9 | 1 | C |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 337 | 5.9 | 0 | C | | | | | | | | |
| 15 | 337 | 5.9 | 0 | C | 4.8 | 62 | 308 | 1.4 | -0.8 | 4.5 | 1 | C |
| 16 | 326 | 6.4 | 0 | C | 4.8 | 50 | 315 | 2.0 | -1.5 | 3.7 | 2 | C |
| 17 | 327 | 6.4 | 0 | C | 4.6 | 16 | 3 | 4.2 | 0.3 | 1.2 | 1 | C |
| 18 | 315 | 6.4 | 0 | C | 4.6 | 12 | 354 | 4.1 | -0.4 | 0.9 | 2 | C |
| 19 | 315 | 6.5 | 0 | C | 4.5 | 12 | 328 | 3.4 | -2.2 | 0.8 | 2 | C |
| 20 | 317 | 6.4 | 0 | C | 4.5 | 18 | 309 | 2.6 | -3.3 | 1.1 | 1 | C |
| 21 | 315 | 6.5 | 0 | C | 4.7 | 19 | 321 | 3.1 | -2.7 | 1.1 | 2 | C |
| 22 | 320 | 6.6 | 0 | C | 4.8 | 40 | 326 | 2.5 | -2.0 | 2.3 | 2 | C |
| 23 | 306 | 7.5 | 0 | C | 6.1 | 39 | 199 | -4.4 | -2.0 | 3.5 | 1 | C |
| 24 | 309 | 8.1 | 0 | C | 6.4 | 44 | 208 | -3.8 | -2.5 | 3.8 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 293 | 7.9 | 0 | C | 4.7 | -3 | 265 | -0.4 | -4.5 | -0.7 | 1 | C |
| 2 | | | | | | | | | | | | |
| 3 | 297 | 6.2 | 0 | C | 5.4 | -5 | 262 | -0.8 | -5.2 | -0.6 | 1 | C |
| 4 | 291 | 6.5 | 0 | C | 5.5 | -23 | 258 | -1.1 | -4.9 | -2.0 | 1 | C |
| 5 | | | | | | | | | | | | |
| 6 | 285 | 9.0 | 0 | C | 4.9 | -38 | 246 | -1.6 | -3.9 | -2.5 | 1 | C |
| 7 | 287 | 7.3 | 0 | C | 5.1 | -42 | 236 | -2.1 | -3.7 | -2.8 | 0 | C |
| 8 | 292 | 6.3 | 0 | C | 5.5 | -50 | 228 | -2.3 | -3.5 | -3.5 | 1 | C |
| 9 | 298 | 7.1 | 0 | C | 4.9 | -49 | 222 | -2.4 | -3.0 | -3.0 | 1 | C |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 309 | 7.8 | 0 | C | | | | | | | | |
| 15 | 309 | 7.8 | 0 | C | 5.5 | 41 | 107 | -1.1 | 4.3 | 2.5 | 1 | C |
| 16 | 311 | 8.2 | 0 | C | 6.4 | 72 | 175 | -1.9 | 1.2 | 5.7 | 1 | C |
| 17 | 307 | 8.5 | 0 | C | 6.1 | 47 | 239 | -2.1 | -3.0 | 4.8 | 1 | C |
| 18 | 298 | 8.2 | 0 | C | 5.9 | 41 | 229 | -2.9 | -3.1 | 4.0 | 1 | C |
| 19 | 299 | 8.5 | 0 | C | 5.4 | 46 | 224 | -2.6 | -2.5 | 3.6 | 1 | C |
| 20 | 300 | 8.8 | 0 | C | 5.3 | 61 | 195 | -2.5 | -0.9 | 4.5 | 1 | C |
| 21 | 299 | 9.8 | 0 | C | | | | | | | | |
| 22 | 299 | 9.8 | 0 | C | 5.1 | 63 | 192 | -2.2 | -1.0 | 4.4 | 0 | C |
| 23 | 298 | 10.2 | 0 | C | 5.1 | 66 | 213 | -1.7 | -1.7 | 4.4 | 1 | C |
| 24 | 295 | 9.4 | 0 | C | 5.2 | 55 | 210 | -2.5 | -1.8 | 3.9 | 1 | C |

# 07/04/80 – 07/11/80

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 294 | 8.5 | 0 | C | 5.4 | 57 | 192 | -2.8 | -1.0 | 4.3 | 1 | C |
| 2 | 290 | 7.7 | 0 | C | 5.7 | 49 | 183 | -3.5 | -0.4 | 4.0 | 2 | C |
| 3 | 288 | 8.1 | 0 | C | 5.5 | 47 | 191 | -3.6 | -0.8 | 4.0 | 1 | C |
| 4 | | | | | | | | | | | | |
| 5 | 285 | 9.2 | 0 | C | 5.6 | 41 | 195 | -4.0 | -0.7 | 3.7 | 1 | C |
| 6 | 279 | 10.4 | 0 | C | 5.3 | 49 | 175 | -3.4 | 0.8 | 3.8 | 1 | C |
| 7 | 275 | 10.9 | 0 | C | 5.3 | 54 | 121 | -1.5 | 3.2 | 3.4 | 2 | C |
| 8 | 283 | 8.5 | 0 | C | 6.9 | 67 | 160 | -2.5 | 2.4 | 5.9 | 1 | C |
| 9 | 285 | 8.8 | 0 | C | 6.1 | 68 | 178 | -2.2 | 1.6 | 5.4 | 0 | C |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 296 | 15.7 | 0 | C | | | | | | | | |
| 15 | 296 | 15.7 | 0 | C | 7.5 | -37 | 152 | -5.3 | 1.7 | -5.0 | 0 | C |
| 16 | 297 | 15.8 | 0 | C | 7.0 | 0 | 162 | -5.8 | 1.8 | -0.3 | 3 | C |
| 17 | 300 | 16.7 | 0 | C | 5.5 | 34 | 131 | -2.3 | 3.0 | 2.1 | 3 | C |
| 18 | 293 | 16.7 | 0 | C | 5.7 | 30 | 146 | -3.6 | 2.5 | 2.3 | 2 | C |
| 19 | 299 | 15.9 | 0 | C | 5.4 | 42 | 183 | -3.4 | -0.2 | 3.1 | 2 | C |
| 20 | 299 | 15.3 | 0 | C | 5.2 | 41 | 222 | -2.5 | -2.3 | 2.7 | 2 | C |
| 21 | 298 | 13.8 | 0 | C | 6.5 | 20 | 199 | -2.6 | -1.0 | 0.9 | 6 | C |
| 22 | | | | | | | | | | | | |
| 23 | 295 | 13.6 | 0 | C | 6.4 | -17 | 181 | -5.7 | 0.1 | -1.7 | 2 | C |
| 24 | 287 | 13.8 | 0 | C | 7.0 | -24 | 165 | -5.7 | 1.8 | -2.5 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 308 | 16.6 | 0 | C | 8.5 | -70 | 181 | -2.8 | 0.6 | -7.6 | 2 | C |
| 2 | 316 | 17.7 | 0 | C | 9.9 | -55 | 135 | -3.4 | 3.8 | -6.7 | 4 | C |
| 3 | 315 | 18.4 | 0 | C | 10.4 | -10 | 115 | -3.6 | 7.9 | -1.5 | 5 | C |
| 4 | 321 | 19.3 | 0 | C | 10.3 | -25 | 104 | -2.2 | 8.6 | -4.5 | 2 | C |
| 5 | 326 | 20.6 | 0 | C | 11.8 | -10 | 103 | -2.4 | 10.2 | -2.8 | 4 | C |
| 6 | 333 | 24.2 | 0 | C | 11.8 | 7 | 91 | -0.2 | 11.3 | -0.2 | 3 | C |
| 7 | 331 | 25.2 | 0 | C | 12.5 | -12 | 95 | -1.0 | 10.9 | -4.6 | 4 | C |
| 8 | 327 | 24.6 | 0 | C | 13.9 | 7 | 106 | -3.7 | 13.0 | -1.5 | 3 | C |
| 9 | 324 | 25.5 | 0 | C | 14.5 | 9 | 115 | -5.7 | 12.5 | -1.3 | 4 | C |
| 10 | 323 | 28.5 | 0 | C | 13.2 | 41 | 123 | -5.2 | 10.0 | 5.5 | 3 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 351 | 36.1 | 0 | C | | | | | | | | |
| 15 | 351 | 36.1 | 0 | C | 9.6 | -22 | 127 | -5.2 | 5.9 | -4.9 | 2 | C |
| 16 | 344 | 33.0 | 0 | C | 9.2 | -12 | 128 | -4.3 | 5.1 | -2.5 | 6 | C |
| 17 | 319 | 22.0 | 0 | C | 11.4 | -73 | 62 | 1.6 | 1.6 | -11.0 | 2 | C |
| 18 | 316 | 23.5 | 0 | C | 9.1 | -75 | 7 | 2.2 | -0.2 | -8.1 | 3 | C |
| 19 | 314 | 16.0 | 0 | C | 9.4 | -10 | 310 | 2.3 | -2.7 | -0.6 | 9 | C |
| 20 | 324 | 12.8 | 0 | C | 10.2 | 37 | 297 | 3.7 | -7.5 | 5.7 | 1 | C |
| 21 | 341 | 13.0 | 0 | C | 10.0 | 29 | 291 | 3.0 | -8.0 | 3.9 | 3 | C |
| 22 | 357 | 14.8 | 0 | C | 10.4 | 44 | 294 | 2.8 | -6.9 | 6.0 | 4 | C |
| 23 | 348 | 14.8 | 0 | C | 11.4 | 28 | 283 | 2.2 | -10.1 | 4.2 | 2 | C |
| 24 | 357 | 12.1 | 87 | L | 11.7 | 19 | 298 | 5.1 | -10.0 | 2.8 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 386 | 18.6 | 214 | J | 7.9 | 2 | 306 | 4.2 | -5.8 | -0.2 | 2 | J |
| 2 | 377 | 14.6 | 83 | J | 7.8 | 10 | 324 | 5.3 | -3.9 | 1.0 | 4 | J |
| 3 | 383 | 13.6 | 0 | C | 9.0 | 52 | 249 | -1.9 | -4.8 | 6.6 | 2 | C |
| 4 | 383 | 13.6 | 0 | C | 8.7 | 67 | 172 | -3.3 | 0.8 | 7.8 | 1 | C |
| 5 | 407 | 12.0 | 62 | J | 6.6 | 15 | 121 | -3.0 | 5.1 | 1.1 | 3 | J |
| 6 | 400 | 11.8 | 68 | J | 6.7 | 43 | 123 | -2.5 | 4.5 | 3.7 | 2 | J |
| 7 | 392 | 12.1 | 42 | J | 6.2 | 49 | 89 | 0.1 | 4.8 | 3.6 | 2 | J |
| 8 | 389 | 13.1 | 41 | J | 7.2 | 33 | 97 | -0.7 | 6.2 | 2.1 | 3 | J |
| 9 | 396 | 13.5 | 41 | J | 6.1 | 7 | 95 | -0.5 | 5.7 | -0.9 | 2 | J |
| 10 | 400 | 11.3 | 21 | J | 8.3 | 75 | 24 | 1.7 | 2.9 | 6.6 | 4 | J |
| 11 | 348 | 8.8 | 214 | L | | | | | | | | |
| 12 | 386 | 11.2 | 62 | J | | | | | | | | |
| 13 | 420 | 16.4 | 49 | J | 8.4 | 25 | 249 | -2.3 | -4.9 | 4.8 | 4 | J |
| 14 | 402 | 14.4 | 44 | J | 8.2 | 13 | 299 | 3.3 | -5.3 | 3.2 | 4 | J |
| 15 | 396 | 12.4 | 48 | J | 8.1 | -44 | 343 | 5.0 | -2.7 | -4.5 | 4 | J |
| 16 | 417 | 9.9 | 65 | J | 6.8 | 41 | 24 | 4.0 | 2.5 | 3.4 | 3 | J |
| 17 | 429 | 10.4 | 88 | J | 7.1 | 26 | 309 | 2.8 | -3.2 | 2.6 | 5 | J |
| 18 | 428 | 11.7 | 83 | J | 8.0 | 20 | 308 | 3.9 | -4.8 | 2.6 | 4 | J |
| 19 | 429 | 11.5 | 85 | J | 8.9 | 9 | 307 | 4.9 | -6.5 | 1.4 | 3 | J |
| 20 | 436 | 13.3 | 71 | J | 9.3 | 28 | 291 | 2.6 | -6.9 | 3.6 | 4 | J |
| 21 | 421 | 11.8 | 71 | J | 10.2 | 20 | 334 | 5.3 | -8.0 | 2.8 | 2 | J |
| 22 | 421 | 9.6 | 64 | J | 10.8 | 7 | 304 | 5.8 | -8.7 | 0.5 | 2 | J |
| 23 | 424 | 8.3 | 64 | J | 10.9 | -9 | 304 | 5.9 | -8.5 | -2.5 | 2 | J |
| 24 | 467 | 7.2 | 167 | J | 9.8 | 2 | 302 | 4.9 | -7.8 | -0.4 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 463 | 7.2 | 115 | J | 9.5 | 3 | 307 | 5.6 | -7.4 | -0.0 | 2 | J |
| 2 | 479 | 6.7 | 88 | J | 9.8 | 9 | 294 | 3.5 | -7.9 | 1.1 | 4 | J |
| 3 | 461 | 6.7 | 78 | J | 9.9 | 2 | 297 | 4.3 | -8.5 | 0.4 | 3 | J |
| 4 | 477 | 9.6 | 113 | J | 8.6 | 7 | 290 | 2.5 | -6.8 | 1.3 | 4 | J |
| 5 | 447 | 9.1 | 98 | J | 7.8 | -20 | 334 | 5.7 | -3.0 | -2.0 | 4 | J |
| 6 | 454 | 9.6 | 111 | J | 7.8 | 26 | 295 | 2.5 | -4.9 | 3.8 | 4 | J |
| 7 | 446 | 9.2 | 130 | J | 8.3 | 18 | 309 | 4.8 | -5.3 | 3.7 | 2 | J |
| 8 | 459 | 6.8 | 142 | J | 8.0 | -18 | 307 | 4.1 | -5.8 | -0.8 | 4 | J |
| 9 | 473 | 8.3 | 239 | J | 7.3 | -15 | 298 | 2.9 | -5.7 | -0.0 | 3 | J |
| 10 | 463 | 7.6 | 138 | J | 7.1 | 5 | 316 | 4.7 | -4.1 | 2.0 | 3 | J |
| 11 | 476 | 7.3 | 132 | J | 7.4 | 9 | 296 | 3.0 | -5.4 | 3.0 | 3 | J |
| 12 | 466 | 6.9 | 145 | J | 8.1 | -2 | 301 | 3.8 | -6.0 | 1.8 | 4 | J |
| 13 | 482 | 5.8 | 117 | J | 9.0 | 31 | 276 | 0.7 | -5.0 | 5.9 | 4 | J |
| 14 | 458 | 6.0 | 108 | J | 8.2 | 12 | 312 | 4.8 | -4.7 | 3.0 | 3 | J |
| 15 | 459 | 5.5 | 100 | J | 8.8 | -21 | 325 | 6.1 | -4.9 | -1.7 | 3 | J |
| 16 | 453 | 5.3 | 101 | J | 8.9 | -18 | 327 | 6.2 | -4.4 | -1.6 | 4 | J |
| 17 | 475 | 5.7 | 127 | J | 8.3 | -3 | 313 | 4.3 | -4.6 | 0.3 | 5 | J |
| 18 | 469 | 5.4 | 117 | J | 7.5 | 5 | 311 | 4.2 | -4.8 | 0.9 | 4 | J |
| 19 | 497 | 5.3 | 134 | J | 7.4 | 39 | 277 | 0.5 | -3.7 | 3.1 | 6 | J |
| 20 | 503 | 4.3 | 105 | J | 5.9 | 2 | 292 | 1.8 | -4.4 | 0.0 | 4 | J |
| 21 | 526 | 3.5 | 71 | J | 5.0 | -9 | 277 | 0.6 | -4.5 | -1.0 | 2 | J |
| 22 | 509 | 3.2 | 68 | J | 4.7 | -4 | 304 | 2.1 | -3.0 | -0.5 | 3 | J |
| 23 | 494 | 3.2 | 77 | J | 4.8 | -19 | 334 | 3.1 | -1.4 | -1.3 | 3 | J |
| 24 | 527 | 3.2 | 92 | J | 4.3 | 32 | 294 | 1.0 | -2.3 | 1.3 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 542 | 3.7 | 82 | J | 5.4 | -8 | 266 | -0.3 | -4.4 | -0.9 | 3 | J |
| 2 | 519 | 4.3 | 102 | J | 5.3 | -59 | 325 | 1.6 | -1.0 | -3.2 | 4 | J |
| 3 | 527 | 4.1 | 99 | J | 5.4 | -36 | 275 | 0.4 | -4.1 | -2.9 | 2 | J |
| 4 | 435 | 6.6 | 0 | C | 5.6 | 3 | 272 | 0.2 | -5.2 | 0.6 | 1 | C |
| 5 | 537 | 3.4 | 72 | J | 5.4 | -24 | 280 | 0.7 | -4.4 | -1.4 | 3 | J |
| 6 | 504 | 3.6 | 75 | J | 5.1 | 5 | 291 | 1.7 | -4.3 | 1.1 | 2 | J |
| 7 | 471 | 3.2 | 45 | J | 5.2 | -7 | 327 | 3.5 | -2.3 | -0.0 | 3 | J |
| 8 | 531 | 3.9 | 71 | J | 6.0 | 9 | 286 | 1.1 | -3.6 | 1.6 | 4 | J |
| 9 | 468 | 3.8 | 56 | J | 6.1 | -4 | 312 | 3.8 | -4.2 | 0.9 | 2 | J |
| 10 | 469 | 3.8 | 56 | J | 6.1 | -32 | 322 | 3.3 | -3.3 | -1.7 | 3 | J |
| 11 | 498 | 3.7 | 35 | J | 7.0 | 2 | 271 | 0.1 | -6.3 | 2.5 | 1 | J |
| 12 | 481 | 3.8 | 32 | J | 7.3 | -6 | 275 | 0.6 | -6.9 | 1.7 | 2 | J |
| 13 | 466 | 4.1 | 40 | J | 7.7 | -14 | 275 | 0.6 | -7.4 | 0.6 | 2 | J |
| 14 | 500 | 4.8 | 45 | J | 8.1 | -17 | 247 | -2.8 | -7.0 | -0.1 | 3 | J |
| 15 | 490 | 4.4 | 37 | J | 8.0 | -33 | 255 | -1.6 | -6.9 | -2.4 | 3 | J |
| 16 | 461 | 4.0 | 37 | J | 7.9 | -34 | 280 | 1.1 | -7.0 | -2.9 | 2 | J |
| 17 | 462 | 3.7 | 38 | J | 7.4 | -43 | 279 | 0.8 | -5.8 | -4.1 | 2 | J |
| 18 | 442 | 3.2 | 35 | J | 7.4 | -62 | 342 | 3.1 | -1.5 | -6.1 | 2 | J |
| 19 | 425 | 3.2 | 48 | J | 6.7 | -34 | 316 | 3.5 | -3.4 | -3.2 | 3 | J |
| 20 | 417 | 3.8 | 42 | J | 6.3 | -35 | 352 | 4.9 | -0.6 | -3.5 | 1 | J |
| 21 | 420 | 3.4 | 41 | J | 5.9 | -30 | 335 | 4.3 | -1.8 | -2.9 | 2 | J |
| 22 | 420 | 4.7 | 43 | J | 5.8 | -35 | 20 | 4.3 | 1.8 | -3.1 | 1 | J |
| 23 | 444 | 6.6 | 96 | J | 4.5 | -32 | 33 | 1.6 | 1.2 | -1.1 | 4 | J |
| 24 | 428 | 8.0 | 86 | J | 4.9 | 46 | 14 | 1.3 | 0.2 | 1.5 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 8.3 | 67 | J | 6.2 | 6 | 332 | 4.9 | -2.7 | 0.4 | 2 | C |
| 2 | 428 | 9.0 | 68 | J | 6.8 | 11 | 342 | 6.1 | -2.0 | 1.2 | 2 | C |
| 3 | 443 | 8.1 | 64 | J | 6.8 | -21 | 19 | 4.4 | 1.5 | -1.8 | 4 | C |
| 4 | 429 | 9.6 | 0 | C | 10.8 | 0 | 270 | -0.0 | -10.6 | 0.7 | 4 | J |
| 5 | 432 | 10.4 | 0 | C | 7.4 | 9 | 292 | 2.6 | -6.2 | 1.9 | 2 | J |
| 6 | 417 | 10.2 | 0 | C | 8.0 | -3 | 293 | 2.8 | -6.5 | 0.8 | 4 | J |
| 7 | 456 | 8.3 | 60 | J | 7.5 | 6 | 268 | -0.2 | -5.6 | 1.9 | 5 | J |
| 8 | 434 | 8.2 | 78 | J | 7.7 | -22 | 279 | 1.0 | -6.6 | -0.8 | 4 | J |
| 9 | 415 | 6.4 | 54 | J | 6.1 | -48 | 339 | 3.2 | -2.4 | -3.3 | 3 | J |
| 10 | 413 | 6.8 | 66 | J | 6.4 | -33 | 303 | 2.7 | -5.0 | -1.7 | 2 | J |
| 11 | 412 | 6.9 | 56 | J | 6.4 | -21 | 297 | 2.5 | -5.3 | -0.3 | 3 | J |
| 12 | 413 | 6.9 | 39 | J | 6.9 | -14 | 293 | 2.5 | -6.2 | 0.5 | 2 | J |
| 13 | 428 | 7.4 | 50 | J | 6.6 | -3 | 265 | -0.6 | -6.1 | 1.8 | 2 | J |
| 14 | 438 | 6.9 | 64 | J | 6.3 | -10 | 258 | -1.2 | -5.7 | 0.7 | 2 | J |
| 15 | 434 | 6.1 | 51 | J | 5.7 | -14 | 260 | -0.7 | -3.9 | 0.1 | 4 | J |
| 16 | 434 | 6.1 | 58 | J | 5.1 | -5 | 260 | -0.8 | -4.6 | 0.6 | 2 | J |
| 17 | 415 | 5.7 | 45 | J | 5.3 | 2 | 277 | 0.6 | -4.9 | 0.9 | 2 | J |
| 18 | 387 | 4.7 | 40 | J | 5.0 | -10 | 332 | 3.7 | -2.0 | -0.6 | 2 | J |
| 19 | 394 | 4.8 | 42 | J | 5.0 | -14 | 326 | 3.4 | -2.3 | -0.9 | 3 | J |
| 20 | 400 | 4.9 | 53 | J | 3.8 | -27 | 312 | 2.2 | -2.4 | -1.7 | 1 | J |
| 21 | 412 | 4.1 | 71 | J | 2.9 | -34 | 316 | 1.3 | -1.1 | -1.2 | 2 | J |
| 22 | 433 | 4.2 | 83 | J | 2.7 | 13 | 180 | -2.0 | -0.0 | 0.5 | 2 | J |
| 23 | 427 | 3.9 | 67 | J | 2.7 | 35 | 208 | -1.1 | -0.6 | 0.8 | 2 | J |
| 24 | 418 | 4.0 | 60 | J | 2.9 | 73 | 83 | 0.1 | 0.4 | 1.9 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 419 | 4.0 | 54 | J | 2.2 | 36 | 213 | -1.0 | -0.7 | 0.8 | 2 | J |
| 2 | 406 | 4.8 | 57 | J | 2.6 | 69 | 320 | 0.6 | -0.6 | 2.1 | 1 | J |
| 3 | 405 | 5.1 | 70 | J | 2.7 | 50 | 355 | 1.5 | -0.1 | 1.8 | 1 | J |
| 4 | 389 | 5.2 | 63 | J | 2.7 | 34 | 352 | 2.0 | -0.2 | 1.4 | 1 | J |
| 5 | 403 | 5.5 | 47 | J | 3.5 | 48 | 354 | 2.2 | 0.1 | 2.5 | 1 | J |
| 6 | 402 | 5.9 | 44 | J | 3.0 | 54 | 339 | 1.5 | -0.2 | 2.3 | 1 | J |
| 7 | 391 | 6.3 | 0 | C | 4.0 | 25 | 21 | 3.0 | 1.5 | 1.2 | 2 | J |
| 8 | 388 | 6.5 | 0 | C | 3.8 | 50 | 8 | 2.4 | 1.1 | 2.6 | 1 | J |
| 9 | 387 | 7.0 | 32 | J | 3.8 | 43 | 345 | 2.7 | 0.1 | 2.7 | 0 | J |
| 10 | 382 | 7.8 | 28 | J | 3.4 | 43 | 339 | 2.3 | -0.1 | 2.4 | 1 | J |
| 11 | 381 | 7.4 | 31 | J | 2.5 | 48 | 312 | 1.0 | -0.5 | 1.9 | 1 | J |
| 12 | 375 | 7.8 | 31 | J | 3.2 | 25 | 317 | 1.9 | -1.2 | 1.7 | 1 | J |
| 13 | 371 | 7.3 | 28 | J | 3.8 | 45 | 333 | 2.3 | -0.2 | 2.8 | 1 | J |
| 14 | | | | | | | | | | | | |
| 15 | 373 | 8.4 | 32 | J | 3.9 | 7 | 286 | 0.9 | -2.8 | 1.2 | 2 | J |
| 16 | 375 | 7.3 | 28 | J | 4.8 | 4 | 285 | 0.9 | -3.1 | 0.9 | 3 | J |
| 17 | 362 | 8.0 | 28 | J | 4.4 | -6 | 278 | 0.6 | -4.0 | 0.2 | 2 | J |
| 18 | 346 | 9.5 | 35 | J | 3.4 | -22 | 324 | 2.4 | -1.9 | -1.0 | 1 | J |
| 19 | 343 | 9.7 | 26 | J | 4.2 | -13 | 317 | 2.9 | -2.8 | -0.8 | 1 | J |
| 20 | 349 | 9.6 | 28 | J | 4.2 | -3 | 290 | 1.3 | -3.7 | -0.2 | 2 | J |
| 21 | 337 | 11.5 | 0 | C | 4.0 | -4 | 283 | 0.9 | -3.7 | -0.4 | 1 | C |
| 22 | 338 | 12.8 | 15 | J | 4.1 | -7 | 303 | 2.2 | -3.4 | -0.7 | 0 | J |
| 23 | 339 | 13.7 | 14 | J | 4.4 | -15 | 288 | 1.3 | -3.9 | -1.4 | 1 | J |
| 24 | 339 | 13.7 | 16 | J | 4.6 | 31 | 248 | -0.8 | -2.1 | 1.2 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 351 | 12.0 | 20 | J | 4.0 | 3 | 234 | -2.2 | -3.0 | 0.1 | 1 | J |
| 2 | 350 | 13.5 | 19 | J | 4.1 | -32 | 241 | -1.6 | -2.9 | -2.1 | 1 | J |
| 3 | 356 | 12.8 | 20 | J | 4.8 | -23 | 247 | -1.6 | -3.9 | -1.6 | 2 | J |
| 4 | 365 | 12.5 | 14 | J | 6.2 | -59 | 199 | -2.9 | -1.4 | -5.0 | 2 | J |
| 5 | 347 | 12.1 | 27 | J | 5.9 | -14 | 273 | 0.3 | -5.3 | -0.6 | 3 | J |
| 6 | 358 | 6.9 | 34 | J | 7.2 | 11 | 303 | 3.8 | -5.5 | 2.4 | 1 | J |
| 7 | 360 | 7.5 | 33 | J | 7.1 | 10 | 300 | 3.4 | -5.5 | 2.6 | 1 | J |
| 8 | 362 | 8.0 | 28 | J | 7.6 | 5 | 307 | 4.4 | -5.5 | 2.3 | 1 | J |
| 9 | 365 | 8.8 | 25 | J | 8.5 | 9 | 302 | 4.3 | -6.2 | 3.4 | 2 | J |
| 10 | 373 | 10.4 | 25 | J | 8.9 | -14 | 299 | 4.1 | -7.7 | 0.5 | 2 | J |
| 11 | 370 | 10.5 | 21 | J | 9.2 | -8 | 302 | 4.8 | -7.6 | 1.5 | 1 | J |
| 12 | | | | | 9.4 | -7 | 304 | 5.2 | -7.6 | 1.6 | 2 | J |
| 13 | | | | | 9.8 | 11 | 308 | 5.6 | -6.1 | 4.1 | 3 | J |
| 14 | 375 | 8.9 | 0 | C | 9.2 | 10 | 295 | 3.7 | -7.1 | 4.0 | 2 | J |
| 15 | 375 | 8.9 | 0 | C | 9.2 | 8 | 131 | -4.7 | 5.6 | -0.5 | 6 | C |
| 16 | 425 | 12.0 | 0 | C | 6.5 | 47 | 154 | -3.4 | 2.4 | 3.5 | 3 | C |
| 17 | 434 | 11.3 | 0 | C | 6.1 | 22 | 97 | -0.7 | 5.9 | 1.3 | 0 | J |
| 18 | 431 | 10.1 | 0 | C | 3.7 | -17 | 277 | 0.2 | -1.7 | -0.3 | 4 | J |
| 19 | 436 | 9.4 | 76 | J | 4.9 | -31 | 346 | 3.4 | -0.9 | -2.1 | 3 | J |
| 20 | 429 | 9.2 | 0 | C | 5.7 | 3 | 158 | -3.8 | 1.5 | 0.2 | 4 | J |
| 21 | 451 | 6.5 | 0 | C | 5.5 | 61 | 153 | -2.2 | 1.0 | 4.5 | 2 | J |
| 22 | 457 | 5.3 | 68 | J | 5.5 | 37 | 124 | -1.9 | 2.7 | 2.7 | 3 | C |
| 23 | 472 | 4.9 | 91 | J | 5.1 | -52 | 139 | -2.0 | 2.0 | -3.3 | 3 | C |
| 24 | 463 | 4.4 | 64 | J | 4.7 | -8 | 129 | -2.1 | 2.5 | -0.3 | 3 | C |

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## JUL. 12, 1980 — 194

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 444 | 4.9 | 107 | J | 3.7 | -32 | 140 | -2.3 | 2.0 | -1.8 | 1 | J |
| 2 | 446 | 5.6 | 103 | J | 3.8 | -32 | 148 | -2.0 | 1.3 | -1.5 | 3 | J |
| 3 | 443 | 6.2 | 97 | J | 3.4 | 21 | 115 | -0.9 | 2.0 | 0.7 | 3 | J |
| 4 | 451 | 6.4 | 86 | J | 3.9 | 31 | 29 | 2.5 | 1.5 | 1.6 | 2 | J |
| 5 | 433 | 6.7 | 68 | J | 4.3 | 79 | 94 | -0.0 | 1.0 | 2.8 | 3 | J |
| 6 | 403 | 6.4 | 46 | J | 4.8 | 37 | 144 | -3.1 | 2.8 | 2.4 | 1 | J |
| 7 | 405 | 6.6 | 48 | J | 4.9 | 26 | 124 | -2.4 | 3.9 | 1.2 | 1 | J |
| 8 | 404 | 6.4 | 48 | J | 5.4 | 21 | 124 | -2.7 | 4.3 | 0.6 | 2 | J |
| 9 | 404 | 6.4 | 44 | J | 5.7 | 31 | 138 | -3.5 | 3.9 | 1.7 | 1 | J |
| 10 | 406 | 6.6 | 48 | J | 5.7 | 37 | 162 | -4.3 | 2.5 | 2.7 | 1 | J |
| 11 | 404 | 7.6 | 54 | J | 5.2 | 40 | 142 | -3.1 | 3.4 | 2.2 | 1 | J |
| 12 | 416 | 7.5 | 39 | J | 4.4 | 55 | 121 | -1.2 | 3.2 | 2.5 | 1 | J |
| 13 | 414 | 8.2 | 38 | J | 4.5 | 45 | 128 | -1.9 | 3.4 | 2.1 | 1 | J |
| 14 | 400 | 8.7 | 0 | C | 4.5 | 22 | 130 | -2.4 | 3.2 | 0.5 | 2 | J |
| 15 | 400 | 8.7 | 0 | C | 4.0 | 18 | 108 | -1.1 | 3.6 | 0.2 | 1 | J |
| 16 | 395 | 8.5 | 0 | C | 3.7 | -49 | 141 | -1.7 | 0.8 | -2.7 | 2 | J |
| 17 | 402 | 7.8 | 49 | J | 4.9 | -17 | 118 | -1.9 | 3.3 | -1.8 | 3 | J |
| 18 | 389 | 6.4 | 0 | C | 5.5 | 40 | 120 | -2.0 | 3.7 | 2.9 | 2 | J |
| 19 | 366 | 6.2 | 0 | C | 6.1 | 26 | 146 | -4.1 | 2.9 | 2.3 | 3 | J |
| 20 | 364 | 5.3 | 37 | J | 6.9 | 21 | 140 | -4.6 | 3.9 | 2.3 | 3 | J |
| 21 | 347 | 5.4 | 49 | J | 7.0 | 16 | 156 | -6.0 | 2.6 | 2.0 | 2 | J |
| 22 | 366 | 5.9 | 48 | J | 7.1 | 3 | 145 | -5.6 | 3.9 | 0.6 | 2 | J |
| 23 | 364 | 5.9 | 54 | J | 7.0 | -8 | 144 | -5.5 | 4.1 | -0.7 | 1 | J |
| 24 | 365 | 5.2 | 45 | J | 6.7 | -7 | 141 | -5.0 | 4.1 | -0.6 | 2 | J |

## JUL. 13, 1980 — 195

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 5.5 | 45 | J | 6.5 | -14 | 125 | -2.8 | 4.1 | -1.1 | 4 | J |
| 2 | 397 | 6.8 | 57 | J | 7.1 | -5 | 125 | -3.2 | 4.5 | -0.5 | 4 | C |
| 3 | 370 | 6.0 | 50 | J | 6.3 | -35 | 133 | -3.2 | 3.2 | -3.3 | 3 | C |
| 4 | 389 | 6.4 | 47 | J | 5.4 | -24 | 158 | -4.2 | 1.5 | -2.2 | 2 | C |
| 5 | 372 | 5.4 | 87 | L | 6.3 | -17 | 163 | -5.3 | 1.4 | -2.0 | 2 | C |
| 6 | 374 | 7.9 | 0 | C | 7.9 | -17 | 160 | -6.9 | 2.1 | -2.7 | 1 | C |
| 7 | 370 | 8.0 | 0 | C | 7.7 | 20 | 162 | -6.0 | 2.5 | 1.8 | 3 | C |
| 8 | 364 | 7.9 | 0 | C | 7.2 | 20 | 202 | -6.1 | -1.7 | 3.0 | 1 | C |
| 9 | 362 | 7.6 | 0 | C | 6.8 | -3 | 217 | -4.7 | -3.5 | 0.9 | 3 | C |
| 10 | 364 | 7.4 | 0 | C | 7.3 | 33 | 201 | -4.9 | -0.6 | 3.9 | 0 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 371 | 7.8 | 0 | C | 6.4 | -69 | 135 | -1.6 | -0.2 | -6.2 | 1 | C |
| 15 | 371 | 7.8 | 0 | C | 6.5 | -71 | 118 | -1.0 | 0.4 | -6.3 | 1 | C |
| 16 | 374 | 7.8 | 0 | C | 6.8 | -29 | 131 | -3.6 | 3.5 | -3.7 | 2 | C |
| 17 | 358 | 8.0 | 0 | C | 6.7 | -6 | 149 | -5.5 | 3.2 | -1.0 | 2 | C |
| 18 | 341 | 7.5 | 0 | C | 6.2 | -8 | 159 | -5.7 | 2.1 | -0.9 | 1 | C |
| 19 | 339 | 7.3 | 0 | C | 5.9 | 1 | 171 | -5.8 | 0.9 | 0.1 | 1 | C |
| 20 | 340 | 7.0 | 0 | C | 5.7 | 17 | 162 | -5.2 | 1.7 | 1.7 | 1 | C |
| 21 | 339 | 7.0 | 0 | C | 5.2 | 18 | 168 | -4.4 | 0.8 | 1.5 | 2 | C |
| 22 | 339 | 6.8 | 0 | C | 5.1 | -1 | 158 | -4.6 | 1.9 | 0.0 | 1 | C |
| 23 | 348 | 6.1 | 0 | C | 5.4 | -3 | 176 | -5.1 | 0.3 | -0.2 | 1 | C |
| 24 | 342 | 7.0 | 0 | C | | | | | | | | |

## JUL. 14, 1980 — 196

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 336 | 7.3 | 0 | C | 5.3 | -5 | 140 | -3.7 | 3.2 | -0.4 | 1 | C |
| 2 | 348 | 7.5 | 0 | C | 5.0 | -55 | 137 | -1.7 | 1.6 | -3.4 | 2 | C |
| 3 | 349 | 7.4 | 0 | C | 4.6 | -30 | 210 | -2.1 | -1.3 | -1.4 | 3 | C |
| 4 | 343 | 7.0 | 0 | C | 4.9 | 2 | 150 | -4.0 | 2.3 | -0.1 | 1 | C |
| 5 | 348 | 6.5 | 0 | C | 5.0 | 25 | 156 | -3.7 | 1.9 | 1.6 | 2 | C |
| 6 | 348 | 6.2 | 0 | C | 6.0 | 19 | 137 | -3.9 | 4.0 | 1.0 | 2 | C |
| 7 | 348 | 6.6 | 0 | C | 6.1 | -9 | 124 | -3.3 | 4.5 | -2.1 | 1 | C |
| 8 | 350 | 6.8 | 0 | C | 6.0 | -9 | 124 | -3.3 | 4.3 | -2.3 | 1 | C |
| 9 | 353 | 6.9 | 0 | C | 5.8 | -7 | 119 | -2.7 | 4.4 | -2.3 | 1 | C |
| 10 | 356 | 7.0 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 366 | 7.1 | 0 | C | 5.3 | 4 | 159 | -4.9 | 1.9 | -0.2 | 0 | C |
| 15 | 366 | 7.1 | 0 | C | 5.5 | 9 | 140 | -4.1 | 3.5 | 0.0 | 1 | C |
| 16 | 368 | 6.3 | 0 | C | 6.9 | 21 | 123 | -3.5 | 5.7 | 1.4 | 1 | C |
| 17 | 386 | 4.2 | 0 | C | 6.6 | 5 | 138 | -4.7 | 4.3 | -0.0 | 1 | C |
| 18 | 386 | 4.2 | 0 | C | 6.3 | -17 | 190 | -5.6 | -1.1 | -1.7 | 2 | C |
| 19 | 375 | 5.3 | 0 | C | 4.2 | -15 | 154 | -1.7 | 0.8 | -0.5 | 4 | C |
| 20 | 369 | 8.1 | 0 | C | 5.3 | 19 | 120 | -2.5 | 4.3 | 1.8 | 1 | C |
| 21 | 368 | 9.4 | 0 | C | 6.0 | 12 | 116 | -2.4 | 5.0 | 1.4 | 2 | C |
| 22 | 349 | 5.5 | 0 | C | 5.3 | 0 | 91 | -0.1 | 4.6 | 0.2 | 2 | C |
| 23 | 373 | 7.5 | 0 | C | 4.0 | 17 | 134 | -2.5 | 2.6 | 1.2 | 1 | C |
| 24 | 376 | 10.4 | 0 | C | | | | | | | | |

## JUL. 15, 1980 — 197

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 366 | 12.4 | 0 | C | 3.8 | 13 | 96 | -0.4 | 3.3 | 0.8 | 1 | C |
| 2 | 361 | 11.0 | 0 | C | 4.7 | -4 | 290 | 1.2 | -3.1 | -0.2 | 3 | C |
| 3 | 362 | 10.3 | 0 | C | 4.6 | -40 | 261 | -0.5 | -3.3 | -2.5 | 2 | C |
| 4 | 367 | 10.1 | 0 | C | 4.1 | -13 | 285 | 0.7 | -2.7 | -0.3 | 3 | C |
| 5 | 375 | 7.5 | 0 | C | 5.1 | 15 | 323 | 3.9 | -2.7 | 1.8 | 1 | C |
| 6 | 377 | 6.4 | 0 | C | 5.5 | 19 | 320 | 3.9 | -2.9 | 2.4 | 1 | C |
| 7 | 370 | 7.5 | 0 | C | 4.3 | 30 | 331 | 3.2 | -1.2 | 2.4 | 1 | C |
| 8 | 359 | 9.9 | 0 | C | 4.1 | 16 | 343 | 3.7 | -0.8 | 1.4 | 1 | C |
| 9 | 350 | 11.2 | 0 | C | 4.2 | 21 | 334 | 3.5 | -1.1 | 1.9 | 1 | C |
| 10 | 356 | 9.9 | 0 | C | 3.9 | 43 | 324 | 2.3 | -0.6 | 3.0 | 0 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 315 | 10.8 | 0 | C | 2.9 | -42 | 102 | -0.4 | 1.4 | -2.4 | 0 | C |
| 15 | 315 | 10.8 | 0 | C | 3.6 | -43 | 91 | -0.1 | 1.9 | -2.9 | 1 | C |
| 16 | 304 | 9.7 | 0 | C | 4.4 | -48 | 73 | 0.9 | 2.1 | -3.7 | 1 | C |
| 17 | 307 | 8.7 | 0 | C | 3.5 | -7 | 52 | 1.6 | 2.0 | -0.6 | 2 | C |
| 18 | 307 | 10.0 | 0 | C | 3.1 | 16 | 10 | 2.8 | 0.6 | 0.8 | 1 | C |
| 19 | 315 | 11.5 | 0 | C | 3.5 | 21 | 29 | 2.7 | 1.6 | 1.1 | 1 | C |
| 20 | 316 | 12.0 | 0 | C | 3.5 | 60 | 354 | 1.7 | -0.2 | 3.0 | 0 | C |
| 21 | 321 | 12.0 | 0 | C | 3.4 | 56 | 290 | 0.6 | -1.9 | 2.7 | 0 | C |
| 22 | 327 | 13.8 | 0 | C | 4.0 | 67 | 104 | -0.2 | 0.8 | 2.1 | 3 | C |
| 23 | 321 | 13.1 | 0 | C | 5.3 | 10 | 96 | -0.5 | 4.9 | 1.0 | 1 | C |
| 24 | 312 | 10.3 | 0 | C | | | | | | | | |

## JUL. 16, 1980 — 198

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 299 | 11.0 | 0 | C | 5.6 | -17 | 101 | -1.0 | 5.0 | -1.5 | 1 | C |
| 2 | 310 | 10.7 | 0 | C | 6.0 | -24 | 90 | -0.0 | 4.8 | -2.3 | 3 | C |
| 3 | 314 | 12.0 | 0 | C | 5.7 | 5 | 90 | -0.0 | 4.0 | 0.1 | 4 | C |
| 4 | 306 | 12.5 | 0 | C | 5.9 | 28 | 114 | -1.9 | 4.5 | 1.9 | 2 | C |
| 5 | 312 | 12.5 | 0 | C | 6.2 | 28 | 97 | -0.7 | 5.7 | 1.9 | 1 | C |
| 6 | 307 | 12.0 | 0 | C | 6.4 | 40 | 118 | -2.2 | 5.0 | 3.1 | 1 | C |
| 7 | 306 | 12.1 | 0 | C | 6.4 | 9 | 104 | -1.4 | 5.6 | -0.6 | 2 | C |
| 8 | 310 | 13.1 | 0 | C | 6.1 | 1 | 88 | 0.2 | 5.3 | -1.6 | 2 | C |
| 9 | 300 | 13.5 | 0 | C | 6.3 | 34 | 111 | -1.7 | 5.2 | 1.4 | 3 | C |
| 10 | 288 | 13.3 | 0 | C | 7.3 | 57 | 172 | -3.8 | 2.7 | 5.3 | 0 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 313 | 8.8 | 0 | C | 6.5 | 12 | 110 | -2.0 | 5.8 | -0.5 | 2 | C |
| 15 | 313 | 8.8 | 0 | C | 6.7 | 3 | 96 | -0.6 | 5.4 | -1.1 | 3 | C |
| 16 | 325 | 8.6 | 0 | C | 6.6 | 11 | 106 | -1.6 | 5.6 | -0.0 | 2 | C |
| 17 | 326 | 8.3 | 0 | C | 6.6 | 48 | 118 | -1.6 | 3.3 | 3.2 | 4 | C |
| 18 | 332 | 8.1 | 0 | C | 6.5 | 24 | 110 | -1.8 | 5.1 | 1.9 | 2 | C |
| 19 | 337 | 8.0 | 0 | C | 6.2 | 18 | 128 | -3.2 | 4.2 | 1.5 | 3 | C |
| 20 | 328 | 8.0 | 0 | C | 6.1 | 21 | 119 | -2.4 | 4.4 | 2.0 | 2 | C |
| 21 | 324 | 7.9 | 0 | C | 6.3 | -21 | 96 | -0.6 | 5.5 | -2.0 | 2 | C |
| 22 | 333 | 7.5 | 0 | C | 6.1 | -15 | 132 | -3.0 | 3.3 | -1.1 | 4 | C |
| 23 | 329 | 7.8 | 0 | C | 5.9 | -20 | 117 | -1.5 | 3.0 | -1.2 | 4 | C |
| 24 | 323 | 7.6 | 0 | C | | | | | | | | |

## JUL. 17, 1980 — 199

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 328 | 7.8 | 0 | C | 5.8 | 13 | 94 | -0.3 | 4.4 | 1.0 | 3 | C |
| 2 | 332 | 7.1 | 0 | C | 6.2 | -23 | 90 | 0.0 | 5.3 | -2.4 | 2 | C |
| 3 | 333 | 7.1 | 0 | C | 6.0 | -11 | 98 | -0.7 | 4.9 | -1.3 | 3 | C |
| 4 | 332 | 7.4 | 0 | C | 5.8 | -22 | 82 | 0.6 | 4.3 | -2.4 | 3 | C |
| 5 | 331 | 7.5 | 0 | C | 5.6 | -14 | 91 | -0.1 | 3.9 | -1.7 | 3 | C |
| 6 | 326 | 7.1 | 0 | C | 5.6 | 22 | 92 | -0.1 | 4.5 | 0.7 | 3 | C |
| 7 | 327 | 7.1 | 0 | C | 5.6 | 13 | 100 | -0.9 | 5.2 | -0.2 | 1 | C |
| 8 | 323 | 7.4 | 0 | C | 5.1 | 16 | 124 | -1.9 | 3.0 | 0.0 | 3 | C |
| 9 | 322 | 7.7 | 0 | C | 5.4 | -3 | 129 | -2.7 | 3.0 | -1.4 | 3 | C |
| 10 | 330 | 7.6 | 0 | C | 5.5 | -37 | 78 | 0.9 | 2.8 | -4.6 | 0 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 322 | 7.3 | 0 | C | 5.3 | 33 | 166 | -3.9 | 1.7 | 2.2 | 2 | C |
| 15 | 322 | 7.3 | 0 | C | 5.4 | 49 | 99 | -0.5 | 4.1 | 2.8 | 2 | C |
| 16 | 325 | 7.0 | 0 | C | 5.2 | 44 | 132 | -1.9 | 2.6 | 2.3 | 3 | C |
| 17 | 318 | 6.7 | 0 | C | 5.1 | 37 | 103 | -0.9 | 4.1 | 2.3 | 1 | C |
| 18 | 319 | 6.9 | 0 | C | 4.8 | -24 | 41 | 1.7 | 1.4 | -1.2 | 4 | C |
| 19 | 321 | 7.5 | 0 | C | 4.7 | -8 | 122 | -1.7 | 2.7 | -0.6 | 3 | C |
| 20 | 324 | 7.8 | 0 | C | 6.1 | -4 | 121 | -2.6 | 4.4 | -0.4 | 3 | C |
| 21 | 324 | 8.9 | 0 | C | 8.0 | 43 | 132 | -3.0 | 3.3 | 4.3 | 5 | C |
| 22 | 339 | 16.4 | 0 | C | 8.4 | 19 | 115 | -3.0 | 6.4 | 2.6 | 3 | C |
| 23 | 334 | 17.3 | 0 | C | 8.2 | 1 | 95 | -0.7 | 7.3 | 0.2 | 3 | C |
| 24 | 352 | 15.3 | 0 | C | | | | | | | | |

## JUL. 18, 1980 — 200

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 324 | 14.6 | 0 | C | 8.1 | 2 | 116 | -2.7 | 5.7 | 0.2 | 4 | C |
| 2 | 326 | 14.5 | 0 | C | 8.1 | -51 | 110 | -1.8 | 4.6 | -6.4 | 0 | C |
| 3 | 322 | 14.5 | 0 | C | 5.9 | -28 | 125 | -2.1 | 2.8 | -2.1 | 4 | C |
| 4 | 322 | 14.4 | 0 | C | 5.8 | 54 | 149 | -2.3 | 1.8 | 3.5 | 3 | C |
| 5 | 313 | 13.8 | 0 | C | 6.3 | 8 | 134 | -3.5 | 3.7 | 0.1 | 3 | C |
| 6 | 311 | 13.1 | 0 | C | 6.6 | -4 | 101 | -1.2 | 5.8 | -1.8 | 2 | C |
| 7 | 304 | 12.5 | 0 | C | 6.5 | 34 | 127 | -3.0 | 4.9 | 2.2 | 2 | C |
| 8 | 306 | 12.1 | 0 | C | 6.2 | 9 | 124 | -2.9 | 4.4 | -0.6 | 3 | C |
| 9 | 297 | 11.4 | 0 | C | 6.0 | 5 | 146 | -4.4 | 3.0 | -0.6 | 2 | C |
| 10 | 303 | 11.1 | 0 | C | 6.5 | 6 | 96 | -0.7 | 6.1 | -1.8 | 0 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 288 | 8.6 | 37 | J | 5.1 | -73 | 225 | -1.0 | -1.6 | -4.3 | 2 | J |
| 18 | 313 | 7.4 | 28 | J | 4.7 | -53 | 132 | -1.4 | 1.3 | -3.0 | 3 | J |
| 19 | 306 | 7.2 | 36 | J | 5.1 | -45 | 184 | -3.0 | -0.3 | -3.0 | 3 | C |
| 20 | 307 | 6.8 | 30 | J | 11.7 | -75 | 130 | -1.9 | 2.2 | -10.8 | 6 | C |
| 21 | 295 | 16.2 | 0 | C | 20.6 | -81 | 76 | 0.8 | 3.4 | -19.7 | 4 | C |
| 22 | 343 | 37.2 | 0 | C | 19.6 | -56 | 121 | -5.5 | 9.4 | -15.4 | 4 | C |
| 23 | 346 | 37.5 | 0 | C | 17.7 | -38 | 113 | -5.5 | 12.7 | -10.5 | 2 | C |
| 24 | 352 | 35.3 | 0 | C | | | | | | | | |

## JUL. 19, 1980 — 201

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 345 | 28.6 | 0 | C | 12.5 | -30 | 162 | -10.2 | 3.2 | -6.3 | 0 | C |
| 2 | 348 | 27.6 | 0 | C | 13.0 | -31 | 139 | -8.3 | 7.0 | -6.9 | 2 | C |
| 3 | 354 | 25.3 | 0 | C | 12.5 | -28 | 155 | -9.6 | 4.0 | -6.0 | 2 | C |
| 4 | 358 | 22.6 | 0 | C | 11.3 | -36 | 145 | -6.6 | 3.8 | -6.5 | 5 | C |
| 5 | 372 | 17.3 | 0 | C | 11.1 | 59 | 171 | -3.6 | 1.7 | 6.0 | 8 | C |
| 6 | 384 | 13.2 | 0 | C | 13.0 | -34 | 134 | -7.4 | 5.8 | -8.8 | 2 | C |
| 7 | 381 | 10.3 | 0 | C | 12.3 | 3 | 141 | -8.5 | 6.8 | -1.4 | 5 | C |
| 8 | 398 | 4.4 | 132 | J | 11.8 | 62 | 139 | -4.1 | 6.7 | 8.4 | 2 | C |
| 9 | 405 | 5.1 | 151 | J | 7.2 | 78 | 178 | -0.9 | 1.6 | 4.1 | 5 | C |
| 10 | 390 | 5.0 | 113 | J | 8.3 | 63 | 328 | 3.0 | 0.9 | 7.1 | 3 | J |
| 11 | 384 | 5.1 | 102 | J | 6.9 | 75 | 204 | -1.6 | 1.9 | 6.2 | 2 | J |
| 12 | 382 | 4.6 | 113 | J | 6.3 | 80 | 190 | -1.1 | 2.3 | 5.7 | 1 | J |
| 13 | 393 | 3.9 | 98 | J | 5.8 | 86 | 164 | -0.4 | 2.2 | 4.9 | 2 | J |
| 14 | 386 | 4.1 | 116 | J | 5.9 | 67 | 103 | -0.4 | 3.5 | 3.7 | 3 | J |
| 15 | 395 | 4.1 | 104 | J | 5.1 | -12 | 170 | -4.0 | 0.4 | -1.1 | 3 | J |
| 16 | 392 | 3.6 | 79 | J | 5.2 | -2 | 148 | -3.6 | 2.2 | -0.8 | 3 | J |
| 17 | 362 | 6.2 | 0 | C | 5.3 | 20 | 151 | -3.6 | 2.3 | 1.0 | 3 | J |
| 18 | 344 | 6.5 | 0 | C | 6.1 | 27 | 134 | -2.3 | 2.6 | 1.3 | 5 | J |
| 19 | 343 | 4.7 | 0 | C | 6.4 | -8 | 137 | -4.1 | 3.8 | -1.2 | 3 | J |
| 20 | 359 | 5.1 | 0 | C | 5.0 | 18 | 129 | -2.5 | 3.1 | 1.1 | 3 | J |
| 21 | 365 | 3.5 | 154 | J | 5.2 | -1 | 126 | -2.8 | 3.9 | -0.1 | 2 | J |
| 22 | 343 | 5.6 | 0 | C | 5.4 | -28 | 125 | -2.5 | 3.6 | -2.3 | 2 | J |
| 23 | 360 | 3.2 | 77 | J | 5.1 | -44 | 139 | -2.7 | 2.4 | -3.4 | 1 | J |
| 24 | 353 | 3.5 | 65 | J | 4.7 | -27 | 109 | -1.3 | 3.8 | -2.0 | 1 | J |

# 07/20/80 – 07/27/80

JUL. 20, 1980

202

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 355 | 2.7 | 60 | J | 3.8 | -19 | 216 | -2.3 | -1.7 | -0.9 | 2 | J |
| 2 | 369 | 2.2 | 85 | J | 5.1 | -30 | 173 | -3.9 | 0.4 | -2.3 | 3 | J |
| 3 | 345 | 4.5 | 0 | C | 5.3 | -29 | 160 | -4.2 | 1.3 | -2.6 | 1 | J |
| 4 | 353 | 4.2 | 0 | C | 4.5 | -12 | 206 | -3.2 | -1.6 | -0.5 | 3 | J |
| 5 | 345 | 4.0 | 0 | C | 3.9 | -11 | 159 | -3.4 | 1.1 | -0.9 | 1 | J |
| 6 | 346 | 3.8 | 0 | C | 3.8 | -2 | 164 | -3.4 | 0.9 | -0.4 | 1 | C |
| 7 | 352 | 3.7 | 0 | C | 4.5 | -33 | 147 | -3.1 | 1.2 | -2.9 | 1 | C |
| 8 | 361 | 4.1 | 0 | C | 4.8 | -33 | 163 | -3.6 | 0.2 | -2.7 | 2 | J |
| 9 | 377 | 3.1 | 66 | J | 3.7 | 69 | 164 | -0.7 | 0.9 | 1.7 | 3 | J |
| 10 | 385 | 3.8 | 82 | J | 2.9 | 59 | 181 | -1.3 | 0.8 | 2.1 | 2 | J |
| 11 | 371 | 2.7 | 48 | J | 5.6 | -6 | 139 | -3.6 | 2.7 | -1.7 | 3 | J |
| 12 | 372 | 2.6 | 57 | J | 6.2 | -22 | 129 | -3.6 | 3.1 | -3.9 | 1 | J |
| 13 |  |  |  |  | 4.8 | 42 | 226 | -0.8 | -0.4 | 1.3 | 5 | J |
| 14 | 392 | 3.3 | 131 | J | 5.0 | 8 | 118 | -1.5 | 2.8 | -0.6 | 4 | J |
| 15 | 406 | 4.6 | 0 | C | 6.9 | -27 | 303 | 1.9 | -3.4 | -0.7 | 6 | J |
| 16 | 415 | 4.2 | 0 | C | 6.4 | -82 | 2 | 0.9 | -1.7 | -6.1 | 1 | J |
| 17 | 411 | 7.2 | 63 | J | 3.9 | -64 | 330 | 1.4 | -1.5 | -3.0 | 2 | J |
| 18 | 405 | 10.1 | 0 | C | 3.9 | -13 | 138 | -1.9 | 1.6 | -0.8 | 3 | C |
| 19 | 394 | 6.0 | 0 | C | 5.4 | -85 | 15 | 0.4 | -0.4 | -5.2 | 2 | J |
| 20 | 444 | 5.0 | 80 | J | 4.8 | 27 | 341 | 3.1 | -1.0 | 1.7 | 3 | J |
| 21 | 431 | 3.4 | 69 | J | 5.8 | 87 | 69 | 0.1 | 0.3 | 4.2 | 4 | J |
| 22 | 453 | 1.9 | 75 | J | 6.2 | 50 | 300 | 1.9 | -3.2 | 4.4 | 2 | J |
| 23 | 403 | 2.2 | 0 | C | 6.4 | 5 | 317 | 4.5 | -4.2 | 0.5 | 2 | J |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

JUL. 21, 1980

203

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 506 | 2.3 | 0 | C | 6.2 | -26 | 315 | 4.2 | -3.7 | -2.6 | 1 | J |
| 478 | 2.2 | 0 | C | 6.6 | -46 | 353 | 4.6 | -0.8 | -4.7 | 0 | J |
|  |  |  |  | 6.6 | -52 | 288 | 1.2 | -4.1 | -4.6 | 2 | J |
| 369 | 2.9 | 0 | C | 6.9 | -48 | 287 | 1.2 | -4.7 | -4.1 | 2 | C |
| 203 | 4.2 | 0 | C | 7.3 | -31 | 311 | 4.1 | -5.4 | -2.7 | 1 | C |
| 194 | 4.8 | 0 | C | 7.7 | -38 | 301 | 3.1 | -6.2 | -3.3 | 1 | C |
| 203 | 4.6 | 0 | C | 8.0 | -46 | 293 | 2.2 | -6.6 | -4.0 | 0 | C |
| 202 | 4.5 | 0 | C | 8.2 | -42 | 298 | 2.9 | -6.9 | -3.3 | 0 | C |
| 184 | 4.7 | 0 | C | 8.1 | -28 | 310 | 4.6 | -6.5 | -1.5 | 0 | C |
| 186 | 4.6 | 0 | C | 8.4 | -27 | 309 | 4.7 | -6.8 | -1.1 | 1 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 465 | 3.3 | 0 | C | 7.6 | -42 | 309 | 3.5 | -5.9 | -3.1 | 1 | C |
| 465 | 3.3 | 0 | C | 7.3 | -49 | 312 | 3.2 | -5.1 | -3.9 | 1 | C |
| 502 | 2.6 | 0 | C | 6.5 | -25 | 303 | 3.2 | -5.4 | -1.3 | 1 | C |
| 574 | 1.7 | 0 | C | 6.0 | -22 | 300 | 2.7 | -5.0 | -1.1 | 1 | C |
| 558 | 1.7 | 0 | C | 5.9 | -24 | 316 | 3.8 | -4.0 | -1.7 | 1 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 481 | 1.2 | 0 | C | 7.0 | -30 | 320 | 4.6 | -4.1 | -3.2 | 1 | C |
| 201 | 3.6 | 0 | C | 7.9 | -30 | 316 | 4.9 | -4.9 | -3.8 | 0 | C |

JUL. 22, 1980

204

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 178 | 4.3 | 0 | C | 7.7 | -28 | 310 | 4.4 | -5.5 | -3.1 | 0 | C |
| 4 | 176 | 4.3 | 0 | C | 7.6 | -30 | 311 | 4.3 | -5.5 | -3.0 | 0 | C |
| 5 | 164 | 4.4 | 0 | C | 7.5 | -26 | 314 | 4.7 | -5.4 | -2.2 | 1 | C |
| 6 | 156 | 4.3 | 0 | C | 6.9 | -18 | 324 | 5.2 | -4.2 | -1.1 | 1 | J |
| 7 |  |  |  |  | 6.8 | -18 | 325 | 5.2 | -4.1 | -0.9 | 1 | J |
| 8 | 173 | 4.0 | 0 | C | 6.6 | -18 | 348 | 2.7 | -0.8 | -0.6 | 6 | J |
| 9 | 173 | 4.0 | 0 | C | 6.4 | -15 | 329 | 2.5 | -1.7 | -0.2 | 6 | J |
| 10 | 163 | 4.0 | 0 | C | 6.6 | -12 | 320 | 4.9 | -4.3 | 0.4 | 1 | J |
| 11 |  |  |  |  | 6.6 | -12 | 322 | 5.0 | -4.1 | 0.4 | 1 | J |
| 12 |  |  |  |  | 6.6 | -13 | 321 | 5.0 | -4.3 | 0.3 | 1 | J |
| 13 |  |  |  |  | 6.6 | -13 | 317 | 4.7 | -4.6 | 0.4 | 0 | J |
| 14 |  |  |  |  | 6.6 | -9 | 316 | 4.6 | -4.5 | 0.7 | 1 | J |
| 15 |  |  |  |  | 6.5 | -13 | 313 | 4.3 | -4.9 | 0.2 | 1 | J |
| 16 | 322 | 4.0 | 0 | C | 6.7 | 12 | 318 | 4.7 | -3.7 | 2.5 | 2 | J |
| 17 | 409 | 2.2 | 22 | J | 7.0 | -1 | 319 | 5.3 | -4.5 | 0.9 | 1 | J |
| 18 | 401 | 2.5 | 29 | J | 7.0 | -3 | 313 | 4.7 | -5.0 | 0.5 | 0 | J |
| 19 | 398 | 2.4 | 29 | J | 7.1 | -3 | 309 | 4.5 | -5.5 | 0.3 | 1 | J |
| 20 | 396 | 2.8 | 29 | J | 7.0 | 0 | 312 | 4.7 | -5.2 | 0.4 | 1 | J |
| 21 | 392 | 3.0 | 32 | J | 7.0 | -5 | 315 | 4.9 | -4.9 | -0.4 | 1 | J |
| 22 | 386 | 2.8 | 0 | C | 6.5 | -18 | 314 | 4.0 | -4.1 | -1.8 | 3 | J |
| 23 | 434 | 3.5 | 0 | C | 6.3 | -15 | 313 | 3.0 | -3.2 | -1.1 | 4 | J |
| 24 | 455 | 1.3 | 93 | J | 6.3 | 32 | 347 | 5.0 | -1.1 | 3.2 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 455 | 0.8 | 160 | J | 6.3 | 34 | 346 | 5.0 | -1.1 | 3.5 | 1 | J |
| 495 | 1.9 | 68 | J | 5.8 | 22 | 335 | 4.9 | -2.1 | 2.3 | 1 | J |
| 413 | 1.7 | 0 | C | 6.2 | 22 | 355 | 5.4 | -0.2 | 2.2 | 1 | J |
| 409 | 1.6 | 0 | C | 5.7 | 13 | 359 | 5.5 | 0.1 | 1.3 | 1 | J |
| 410 | 1.8 | 0 | C | 6.0 | 18 | 11 | 5.5 | 1.5 | 1.5 | 1 | C |
| 407 | 1.9 | 0 | C | 6.0 | -39 | 321 | 1.2 | -1.3 | -1.0 | 6 | J |
| 398 | 2.0 | 0 | C | 5.5 | 0 | 4 | 5.5 | 0.4 | -0.1 | 1 | C |
| 408 | 1.2 | 50 | J | 5.5 | 3 | 353 | 5.5 | -0.5 | 0.5 | 1 | C |
| 420 | 1.2 | 48 | J | 4.8 | 13 | 357 | 4.6 | 0.2 | 1.1 | 1 | J |
|  |  |  |  | 5.1 | 4 | 340 | 4.4 | -1.3 | 1.0 | 2 | J |
|  |  |  |  | 5.6 | -7 | 320 | 4.1 | -3.4 | 0.8 | 2 | J |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 385 | 2.7 | 0 | C | 6.4 | 2 | 306 | 3.8 | -4.7 | 2.1 | 0 | C |
| 385 | 2.7 | 0 | C | 6.6 | -14 | 288 | 1.9 | -5.8 | 0.5 | 2 | C |
| 402 | 2.8 | 0 | C | 6.6 | -26 | 300 | 2.8 | -5.4 | -1.1 | 2 | C |
| 401 | 2.8 | 0 | C | 6.4 | -7 | 300 | 2.2 | -3.9 | 0.4 | 4 | C |
| 420 | 2.2 | 48 | J | 5.2 | 40 | 347 | 3.7 | -0.3 | 3.3 | 1 | J |
| 404 | 2.3 | 45 | J | 5.3 | 18 | 342 | 4.2 | -1.2 | 1.6 | 3 | J |
| 409 | 2.9 | 0 | C | 5.6 | 18 | 306 | 3.1 | -4.1 | 2.0 | 1 | C |
| 402 | 2.9 | 0 | C | 5.8 | 11 | 345 | 5.2 | -1.3 | 1.1 | 2 | C |
| 396 | 2.7 | 57 | J | 5.6 | 3 | 312 | 3.7 | -4.1 | 0.4 | 1 | J |
| 405 | 3.0 | 0 | C | 5.7 | -4 | 306 | 3.2 | -4.4 | -0.3 | 1 | C |
| 395 | 2.4 | 50 | J | 5.0 | 42 | 335 | 3.3 | -1.5 | 3.3 | 1 | J |

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206

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 413 | 2.7 | 60 | J | 5.1 | 47 | 335 | 2.6 | -1.1 | 3.1 | 3 | J |
| 2 | 416 | 3.0 | 53 | J | 5.0 | -9 | 295 | 2.0 | -4.3 | -0.4 | 1 | J |
| 3 | 403 | 2.8 | 59 | J | 5.0 | -14 | 304 | 2.6 | -4.0 | -0.7 | 1 | J |
| 4 | 404 | 2.9 | 66 | J | 4.8 | -19 | 308 | 2.6 | -3.5 | -0.9 | 2 | J |
| 5 | 399 | 2.8 | 61 | J | 4.6 | -28 | 333 | 2.7 | -1.7 | -1.3 | 3 | J |
| 6 | 445 | 2.5 | 66 | J | 4.9 | -17 | 264 | -0.5 | -4.6 | -0.1 | 2 | J |
| 7 | 404 | 3.3 | 0 | C | 4.6 | 5 | 290 | 1.4 | -3.6 | 1.6 | 2 | J |
| 8 | 386 | 2.9 | 42 | J | 4.6 | 31 | 330 | 3.1 | -0.9 | 2.7 | 2 | J |
| 9 | 381 | 2.9 | 44 | J | 4.9 | 40 | 328 | 2.9 | -0.6 | 3.4 | 2 | J |
| 10 | 379 | 2.9 | 35 | J | 5.1 | 27 | 311 | 2.9 | -2.1 | 3.4 | 1 | J |
| 11 | 362 | 2.8 | 35 | J | 5.3 | 24 | 345 | 4.6 | -0.2 | 2.4 | 1 | J |
| 12 | 369 | 3.1 | 39 | J | 5.4 | -9 | 322 | 3.8 | -3.0 | 0.6 | 2 | J |
| 13 | 367 | 4.0 | 35 | J | 5.3 | -38 | 342 | 3.8 | -2.4 | -2.3 | 2 | J |
| 14 |  |  |  |  | 5.5 | 1 | 326 | 4.0 | -2.4 | 1.1 | 3 | J |
| 15 |  |  |  |  | 5.4 | 1 | 313 | 3.7 | -3.7 | 1.5 | 1 | J |
| 16 | 371 | 4.7 | 0 | C | 4.2 | 13 | 344 | 2.5 | -0.5 | 0.8 | 3 | J |
| 17 | 358 | 3.3 | 30 | J | 4.3 | 17 | 358 | 3.7 | 0.2 | 1.1 | 2 | J |
| 18 | 371 | 4.9 | 33 | J | 4.3 | 22 | 324 | 2.6 | -1.6 | 1.6 | 3 | J |
| 19 | 409 | 4.7 | 35 | J | 4.1 | -71 | 50 | 0.6 | 0.4 | -2.7 | 3 | J |
| 20 |  |  |  |  | 4.7 | -85 | 174 | -0.4 | -0.3 | -4.4 | 2 | J |
| 21 | 387 | 5.4 | 49 | J | 5.1 | -4 | 291 | 1.5 | -4.0 | -0.1 | 3 | J |
| 22 | 379 | 5.6 | 40 | J | 5.3 | -20 | 315 | 3.1 | -3.1 | -1.5 | 3 | J |
| 23 | 383 | 5.4 | 44 | J | 4.8 | -3 | 283 | 0.9 | -3.8 | -0.1 | 3 | J |
| 24 | 380 | 5.4 | 42 | J | 5.2 | 1 | 284 | 1.2 | -4.8 | 0.2 | 1 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 382 | 5.3 | 40 | J | 5.1 | -4 | 282 | 1.0 | -4.9 | -0.1 | 1 | J |
| 383 | 5.3 | 48 | J | 4.9 | -16 | 283 | 0.9 | -4.0 | -0.8 | 2 | J |
| 381 | 6.3 | 65 | J | 5.1 | 4 | 282 | 1.0 | -4.6 | 0.9 | 2 | J |
| 372 | 5.2 | 57 | J | 5.0 | 39 | 311 | 2.4 | -2.2 | 3.4 | 2 | J |
| 383 | 5.1 | 53 | J | 5.1 | -18 | 268 | -0.2 | -4.9 | -0.5 | 1 | J |
| 389 | 5.0 | 56 | J | 5.1 | 3 | 269 | -0.1 | -3.0 | 1.0 | 4 | J |
| 369 | 5.0 | 57 | J | 4.9 | 5 | 275 | 0.4 | -4.0 | 1.7 | 2 | J |
| 385 | 4.9 | 43 | J | 4.8 | 43 | 265 | -0.3 | -2.0 | 4.0 | 2 | J |
| 383 | 4.8 | 42 | J | 4.6 | 24 | 268 | -0.1 | -2.3 | 2.5 | 3 | J |
| 380 | 4.8 | 33 | J | 4.6 | 22 | 289 | 0.9 | -1.9 | 2.0 | 4 | J |
| 376 | 6.3 | 25 | J | 5.0 | -43 | 284 | 0.8 | -4.4 | -1.5 | 2 | J |
| 449 | 13.7 | 91 | J |  |  |  |  |  |  |  |  |
| 457 | 13.3 | 91 | J |  |  |  |  |  |  |  |  |
| 445 | 13.2 | 83 | J | 13.5 | 20 | 292 | 4.4 | -8.4 | 8.3 | 4 | C |
| 469 | 22.0 | 137 | J | 13.4 | 21 | 267 | -0.6 | -7.8 | 6.9 | 8 | C |
| 464 | 17.4 | 308 | J | 11.9 | -13 | 320 | 7.5 | -6.7 | -0.3 | 6 | C |
| 464 | 24.2 | 0 | C | 15.6 | 8 | 300 | 4.8 | -7.6 | 3.4 | 12 | C |
| 463 | 23.3 | 0 | C | 14.2 | -27 | 342 | 9.1 | -3.8 | -4.2 | 8 | C |
| 472 | 22.5 | 0 | C | 15.3 | -2 | 50 | 6.7 | 8.0 | -1.5 | 11 | C |
| 503 | 20.5 | 0 | C | 15.8 | -19 | 49 | 8.5 | 9.2 | -5.2 | 8 | C |
| 479 | 21.9 | 0 | C | 16.0 | -56 | 19 | 7.7 | 2.0 | -12.1 | 6 | C |
| 485 | 18.4 | 0 | C | 14.8 | -82 | 325 | 1.6 | -1.6 | -13.9 | 4 | C |
| 479 | 18.1 | 0 | C | 13.8 | -72 | 61 | 2.0 | 3.3 | -12.9 | 2 | C |
| 479 | 18.0 | 0 | C | 12.1 | -62 | 30 | 4.6 | 2.4 | -10.0 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 468 | 19.1 | 0 | C | 11.8 | -39 | 27 | 8.1 | 3.7 | -7.5 | 2 | C |
| 2 | 446 | 17.7 | 0 | C | 11.6 | -20 | 16 | 9.8 | 2.4 | -4.0 | 3 | C |
| 3 | 440 | 16.6 | 0 | C | 11.0 | 9 | 353 | 9.0 | -0.8 | 1.6 | 6 | C |
| 4 | 445 | 14.2 | 0 | C | 11.1 | 29 | 305 | 5.2 | -6.4 | 6.2 | 3 | C |
| 5 | 464 | 12.2 | 0 | C | 11.2 | 23 | 285 | 2.6 | -8.3 | 6.1 | 3 | C |
| 6 | 459 | 11.2 | 0 | C | 12.3 | 18 | 275 | 1.0 | -9.8 | 6.5 | 3 | C |
| 7 | 435 | 11.6 | 0 | C | 12.2 | 6 | 297 | 5.0 | -8.9 | 4.2 | 4 | C |
| 8 | 452 | 12.3 | 170 | L | 10.5 | -3 | 290 | 1.9 | -5.0 | 1.6 | 9 | C |
| 9 | 473 | 13.4 | 222 | L | 7.4 | 29 | 164 | -6.2 | 3.1 | 2.5 | 0 | C |
| 10 | 419 | 8.5 | 178 | L |  |  |  |  |  |  |  |  |
| 11 | 348 | 3.4 | 91 | L |  |  |  |  |  |  |  |  |
| 12 | 379 | 10.8 | 82 | L |  |  |  |  |  |  |  |  |
| 13 | 368 | 4.2 | 85 | L |  |  |  |  |  |  |  |  |
| 14 | 424 | 8.6 | 0 | C | 13.4 | -41 | 281 | 2.0 | -12.6 | -4.1 | 1 | C |
| 15 | 424 | 8.6 | 0 | C | 12.2 | -7 | 293 | 4.5 | -10.6 | 2.5 | 3 | C |
| 16 | 437 | 11.3 | 0 | C | 11.4 | -5 | 292 | 4.3 | -10.2 | 2.4 | 1 | C |
| 17 | 414 | 6.7 | 0 | C | 10.8 | -3 | 295 | 4.6 | -9.5 | 1.8 | 1 | C |
| 18 | 419 | 8.0 | 0 | C | 9.4 | 4 | 315 | 6.0 | -5.8 | 1.8 | 3 | C |
| 19 | 441 | 11.8 | 0 | C | 8.5 | -3 | 311 | 4.9 | -5.6 | 0.4 | 3 | C |
| 20 | 418 | 10.7 | 0 | C | 8.5 | 14 | 311 | 5.0 | -5.6 | 2.5 | 3 | C |
| 21 | 432 | 9.1 | 0 | C | 7.5 | -12 | 328 | 6.1 | -3.9 | -1.2 | 2 | C |
| 22 | 447 | 7.2 | 0 | C | 6.3 | -32 | 340 | 4.9 | -1.9 | -3.2 | 1 | C |
| 23 | 453 | 6.0 | 0 | C | 5.8 | -35 | 349 | 4.5 | -1.0 | -3.2 | 1 | C |
| 24 | 448 | 5.1 | 0 | C | 5.5 | -10 | 349 | 5.3 | -1.1 | -0.9 | 1 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 432 | 4.5 | 0 | C | 5.5 | -16 | 348 | 5.1 | -1.1 | -1.5 | 1 | C |
| 432 | 4.5 | 0 | C | 6.0 | -22 | 344 | 5.3 | -1.7 | -2.1 | 1 | C |
| 452 | 4.8 | 0 | C | 5.2 | -9 | 302 | 2.4 | -4.0 | -0.2 | 2 | C |
| 500 | 10.5 | 0 | C | 9.3 | 10 | 300 | 3.8 | -6.1 | 2.4 | 5 | C |
| 517 | 13.1 | 0 | C | 10.8 | 28 | 330 | 5.2 | -2.3 | 3.8 | 8 | C |
| 553 | 16.7 | 0 | C | 8.9 | 24 | 251 | -0.8 | -1.8 | 1.6 | 8 | C |
| 557 | 14.1 | 0 | C | 7.8 | -3 | 208 | -5.0 | -2.6 | 0.6 | 5 | C |
| 531 | 10.7 | 0 | C | 7.1 | 18 | 162 | -4.7 | 2.0 | 1.0 | 5 | C |
| 528 | 10.3 | 0 | C |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 456 | 4.9 | 0 | C | 3.2 | 19 | 92 | -0.1 | 2.4 | -0.2 | 2 | C |
| 456 | 4.9 | 0 | C | 3.4 | 12 | 51 | 1.8 | 2.3 | -0.3 | 1 | C |
| 435 | 4.8 | 0 | C | 3.7 | 28 | 70 | 1.1 | 3.4 | 0.7 | 1 | C |
| 435 | 4.4 | 0 | C | 3.8 | 37 | 72 | 0.9 | 3.3 | 1.5 | 1 | C |
| 419 | 4.3 | 0 | C | 3.7 | 37 | 47 | 1.9 | 2.4 | 1.6 | 1 | C |
| 420 | 4.9 | 0 | C | 3.6 | 34 | 43 | 2.1 | 2.2 | 1.6 | 1 | C |
| 432 | 5.4 | 0 | C | 4.0 | 30 | 39 | 2.1 | 1.9 | 1.4 | 2 | C |
| 454 | 6.4 | 0 | C | 4.2 | 0 | 159 | -3.8 | 1.5 | -0.1 | 1 | C |
| 486 | 7.9 | 0 | C | 4.4 | -13 | 160 | -3.9 | 1.4 | -1.0 | 1 | C |
| 494 | 8.1 | 0 | C | 5.6 | -18 | 155 | -4.8 | 2.1 | -1.8 | 1 | C |
| 483 | 6.6 | 0 | C | 5.8 | -18 | 156 | -5.1 | 2.1 | -1.9 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 494 | 7.9 | 0 | C | 5.2 | -26 | 149 | -4.0 | 2.3 | -2.4 | 1 | C |
| 2 | 481 | 10.8 | 0 | C | 5.7 | 33 | 313 | 2.9 | -2.8 | 3.1 | 1 | C |
| 3 | 476 | 7.1 | 0 | C | 7.7 | -29 | 134 | -4.1 | 3.7 | -3.9 | 3 | C |
| 4 | 501 | 3.8 | 0 | C | 7.7 | -16 | 127 | -3.7 | 4.6 | -2.6 | 3 | C |
| 5 | 502 | 3.2 | 0 | C | 8.0 | 19 | 117 | -3.2 | 6.6 | 0.9 | 3 | C |
| 6 | 500 | 3.0 | 0 | C | 8.6 | 23 | 124 | -4.1 | 6.7 | 1.2 | 3 | C |
| 7 | 466 | 2.8 | 0 | C | 9.2 | 25 | 128 | -4.9 | 7.0 | 1.4 | 3 | C |
| 8 | 469 | 3.6 | 0 | C | 8.6 | 11 | 151 | -6.6 | 3.9 | 0.0 | 4 | C |
| 9 | 472 | 3.8 | 0 | C | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 496 | 3.4 | 0 | C | 7.5 | -3 | 112 | -2.4 | 5.1 | -2.7 | 2 | C |
| 15 | 496 | 3.4 | 0 | C | 7.2 | 5 | 102 | -0.9 | 4.3 | -1.2 | 5 | C |
| 16 | 501 | 3.5 | 0 | C | 6.6 | 37 | 125 | -1.5 | 2.7 | 1.2 | 5 | C |
| 17 | 518 | 3.5 | 0 | C | 6.5 | 11 | 108 | -1.1 | 3.5 | -0.3 | 5 | C |
| 18 | 517 | 3.4 | 0 | C | 6.4 | 11 | 137 | -2.5 | 2.5 | 0.2 | 4 | C |
| 19 | 512 | 3.4 | 0 | C | 6.3 | 6 | 143 | -4.4 | 3.4 | 0.1 | 2 | C |
| 20 | 496 | 3.6 | 0 | C | 6.5 | 30 | 145 | -3.4 | 2.7 | 2.2 | 4 | C |
| 21 | 514 | 3.4 | 0 | C | 6.7 | 66 | 246 | -1.0 | -1.8 | 5.5 | 3 | C |
| 22 | 537 | 3.0 | 0 | C | 6.7 | 72 | 176 | -1.6 | 0.4 | 4.8 | 4 | C |
| 23 | 513 | 3.1 | 0 | C | 6.7 | 19 | 100 | -1.0 | 6.1 | 1.8 | 2 | C |
| 24 | 491 | 3.1 | 0 | C | 6.0 | 44 | 230 | -2.1 | -2.4 | 3.3 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 375 | 6.7 | 0 | C | 7.1 | -16 | 188 | -6.6 | -1.1 | -1.9 | 1 | C |
| 2 | 370 | 5.5 | 0 | C | 7.2 | -12 | 178 | -6.9 | 0.1 | -1.5 | 1 | C |
| 3 | 377 | 5.0 | 0 | C | 7.0 | -18 | 179 | -6.4 | -0.2 | -2.1 | 2 | C |
| 4 | 392 | 4.5 | 0 | C | 5.7 | -13 | 211 | -4.2 | -2.7 | -0.6 | 2 | C |
| 5 | 411 | 3.9 | 0 | C | 5.5 | -13 | 228 | -3.1 | -3.7 | -0.2 | 2 | C |
| 6 | 431 | 2.9 | 0 | C | 5.0 | 2 | 243 | -2.1 | -3.9 | 1.3 | 2 | C |
| 7 | 440 | 3.1 | 0 | C | 4.3 | -11 | 276 | 0.2 | -1.9 | 0.3 | 3 | C |
| 8 | 436 | 3.3 | 0 | C | 4.4 | -13 | 270 | 0.0 | -2.6 | 0.4 | 3 | C |
| 9 | 433 | 3.3 | 0 | C | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 412 | 3.8 | 0 | C | | | | | | | | |
| 14 | 412 | 3.8 | 0 | C | 5.2 | -9 | 253 | -1.5 | -4.7 | 1.2 | 1 | C |
| 15 | 422 | 3.7 | 0 | C | 4.5 | 49 | 220 | -1.1 | -0.2 | 1.9 | 4 | C |
| 16 | 438 | 3.8 | 0 | C | 5.3 | 20 | 137 | -3.0 | 3.2 | 0.5 | 3 | C |
| 17 | 443 | 3.6 | 0 | C | 6.4 | -8 | 162 | -5.1 | 1.4 | -1.1 | 4 | C |
| 18 | 441 | 3.4 | 0 | C | 5.7 | -26 | 184 | -5.0 | -0.9 | -2.3 | 1 | C |
| 19 | 453 | 2.8 | 0 | C | 5.5 | 4 | 166 | -4.3 | 1.1 | 0.1 | 3 | C |
| 20 | 451 | 3.1 | 0 | C | 6.9 | 15 | 159 | -6.0 | 2.5 | 1.5 | 2 | C |
| 21 | 441 | 3.2 | 0 | C | 6.5 | -13 | 149 | -5.1 | 3.0 | -1.6 | 2 | C |
| 22 | 431 | 2.8 | 0 | C | 5.3 | -8 | 194 | -3.8 | -1.0 | -0.5 | 3 | C |
| 23 | 457 | 2.7 | 0 | C | 5.4 | -40 | 229 | -2.2 | -2.7 | -2.7 | 2 | C |
| 24 | 454 | 2.7 | 0 | C | 5.9 | -32 | 229 | -3.1 | -3.7 | -2.8 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 2.4 | 31 | J | 4.9 | 4 | 152 | -3.9 | 2.1 | 0.1 | 2 | J |
| 2 | 365 | 2.5 | 27 | J | 4.9 | -6 | 142 | -3.5 | 2.7 | -0.8 | 2 | J |
| 3 | 359 | 2.2 | 35 | J | 4.6 | -5 | 161 | -4.1 | 1.3 | -0.6 | 1 | J |
| 4 | 385 | 2.8 | 0 | C | 4.9 | -22 | 175 | -4.2 | 0.0 | -1.8 | 2 | J |
| 5 | 388 | 2.9 | 0 | C | 4.4 | -33 | 208 | -3.3 | -2.3 | -1.9 | 1 | J |
| 6 | 383 | 3.0 | 0 | C | 4.5 | -39 | 200 | -3.1 | -1.9 | -2.2 | 1 | J |
| 7 | 361 | 2.7 | 41 | J | 4.2 | -19 | 190 | -3.9 | -1.1 | -1.0 | 1 | J |
| 8 | 363 | 2.5 | 39 | J | 4.2 | -20 | 174 | -3.6 | -0.2 | -1.4 | 2 | J |
| 9 | 365 | 2.2 | 52 | J | 4.3 | -11 | 157 | -3.7 | 1.1 | -1.4 | 1 | J |
| 10 | 366 | 2.9 | 51 | J | 4.6 | -18 | 126 | -2.5 | 2.4 | -2.7 | 2 | J |
| 11 | 360 | 2.5 | 39 | J | 4.2 | -3 | 133 | -2.5 | 2.3 | -1.4 | 2 | J |
| 12 | 346 | 2.4 | 30 | J | 4.2 | -19 | 176 | -3.8 | -0.4 | -1.3 | 1 | J |
| 13 | 345 | 2.4 | 34 | J | 4.1 | -11 | 151 | -3.0 | 1.2 | -1.3 | 2 | J |
| 14 | 346 | 2.7 | 26 | J | 4.3 | -3 | 136 | -2.8 | 2.4 | -1.3 | 2 | J |
| 15 | 355 | 2.7 | 20 | J | 4.3 | 17 | 113 | -1.6 | 3.9 | -0.3 | 1 | J |
| 16 | 330 | 2.4 | 19 | J | 4.1 | 17 | 141 | -2.9 | 2.6 | 0.3 | 1 | J |
| 17 | 344 | 2.7 | 20 | J | 4.2 | 22 | 120 | -1.8 | 3.4 | 0.5 | 2 | J |
| 18 | 346 | 2.8 | 25 | J | 4.0 | 24 | 114 | -1.4 | 3.4 | 0.8 | 1 | J |
| 19 | 341 | 3.0 | 19 | J | 4.1 | 3 | 129 | -2.5 | 3.0 | -0.3 | 1 | J |
| 20 | 331 | 3.0 | 19 | J | 4.0 | -9 | 140 | -2.9 | 2.3 | -0.9 | 1 | J |
| 21 | 336 | 3.6 | 16 | J | 4.2 | -19 | 131 | -2.5 | 2.8 | -1.6 | 1 | J |
| 22 | 343 | 4.1 | 17 | J | 3.8 | -19 | 111 | -1.3 | 3.2 | -1.4 | 1 | J |
| 23 | 343 | 4.6 | 23 | J | 3.9 | 5 | 76 | 0.9 | 3.6 | 0.1 | 1 | J |
| 24 | 331 | 4.2 | 14 | J | 3.9 | 3 | 107 | -1.1 | 3.6 | -0.1 | 1 | J |

AUG. 3, 1980 216

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 13.3 | 79 | J | 6.7 | -73 | 209 | -1.5 | -1.4 | -5.5 | 3 | J |
| 2 | 380 | 12.9 | 77 | J | 7.1 | -51 | 258 | -0.7 | -4.0 | -3.9 | 5 | J |
| 3 | 385 | 12.1 | 66 | J | 7.4 | -76 | 250 | -0.6 | -2.7 | -6.4 | 2 | J |
| 4 | 393 | 11.7 | 65 | J | 8.1 | -46 | 271 | 0.1 | -6.6 | -4.4 | 2 | J |
| 5 | 400 | 10.9 | 67 | J | 7.3 | -81 | 235 | -0.6 | -2.7 | -6.4 | 2 | J |
| 6 | 394 | 11.5 | 71 | J | 6.2 | -57 | 311 | 1.6 | -3.0 | -3.1 | 4 | J |
| 7 | 398 | 10.5 | 68 | J | 6.7 | -64 | 96 | -0.3 | 0.5 | -6.3 | 2 | J |
| 8 | 398 | 10.5 | 66 | J | 6.7 | -67 | 100 | -0.5 | -0.1 | -6.7 | 1 | J |
| 9 | 402 | 11.1 | 75 | J | 6.3 | -76 | 167 | -1.1 | -1.8 | -4.3 | 4 | J |
| 10 | 405 | 10.2 | 71 | J | 6.6 | -72 | 197 | -1.7 | -2.9 | -4.6 | 3 | J |
| 11 | 414 | 10.9 | 66 | J | 6.7 | -62 | 174 | -3.1 | -2.5 | -5.3 | 1 | J |
| 12 | 400 | 11.0 | 57 | J | 8.6 | -66 | 160 | -3.0 | -2.4 | -6.9 | 3 | J |
| 13 | 400 | 13.5 | 64 | J | 8.2 | -68 | 139 | -2.2 | -1.6 | -7.2 | 3 | J |
| 14 | 393 | 17.2 | 64 | J | 7.3 | 19 | 250 | -2.3 | -4.8 | 4.9 | 1 | J |
| 15 | 389 | 23.7 | 52 | J | 6.5 | 11 | 257 | -1.3 | -4.9 | 3.4 | 2 | J |
| 16 | 385 | 23.3 | 69 | J | 4.5 | 53 | 289 | 0.6 | -0.8 | 3.1 | 3 | J |
| 17 | 380 | 21.7 | 76 | J | 5.0 | 56 | 358 | 2.7 | 1.1 | 3.8 | 2 | J |
| 18 | 378 | 19.4 | 67 | J | 6.8 | 29 | 322 | 4.1 | -2.4 | 3.5 | 4 | J |
| 19 | 374 | 17.0 | 49 | J | 8.9 | 37 | 323 | 5.4 | -3.1 | 5.8 | 3 | J |
| 20 | 365 | 11.3 | 48 | J | 10.4 | 33 | 321 | 6.5 | -4.4 | 6.1 | 3 | J |
| 21 | 367 | 11.1 | 43 | J | 10.4 | 25 | 310 | 5.9 | -6.5 | 5.0 | 2 | J |
| 22 | 370 | 11.4 | 38 | J | 10.6 | 25 | 297 | 4.3 | -8.0 | 5.1 | 2 | J |
| 23 | 368 | 10.7 | 43 | J | 10.7 | 6 | 300 | 5.2 | -8.9 | 1.8 | 2 | J |
| 24 | 368 | 10.2 | 57 | J | 10.7 | 28 | 306 | 5.2 | -6.8 | 5.3 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 504 | 3.6 | 0 | C | 5.9 | 42 | 228 | -2.8 | -2.8 | 3.9 | 2 | C |
| 2 | 467 | 4.3 | 0 | C | 5.8 | 60 | 200 | -2.3 | -0.4 | 4.3 | 3 | C |
| 3 | 465 | 4.0 | 0 | C | 5.8 | 37 | 159 | -4.0 | 1.9 | 2.9 | 2 | C |
| 4 | 459 | 3.7 | 0 | C | 5.8 | 13 | 136 | -3.7 | 3.7 | 0.5 | 2 | C |
| 5 | 438 | 4.2 | 0 | C | 5.6 | 9 | 122 | -2.6 | 4.3 | -0.2 | 2 | C |
| 6 | 439 | 4.2 | 0 | C | 5.4 | 30 | 116 | -1.7 | 4.0 | 1.1 | 3 | C |
| 7 | 435 | 4.3 | 0 | C | 5.6 | 11 | 107 | -1.5 | 5.1 | -0.7 | 1 | C |
| 8 | 423 | 4.4 | 0 | C | 5.8 | 35 | 181 | -4.4 | 1.1 | 2.9 | 2 | C |
| 9 | 421 | 4.4 | 0 | C | 5.8 | 36 | 217 | -3.7 | -1.1 | 4.3 | 0 | C |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 420 | 8.7 | 0 | C | | | | | | | | |
| 14 | 423 | 8.7 | 0 | C | 7.9 | 29 | 137 | -4.9 | 5.7 | 1.5 | 2 | C |
| 15 | 400 | 9.3 | 0 | C | 8.2 | 19 | 123 | -4.1 | 6.9 | 0.1 | 1 | C |
| 16 | 387 | 9.1 | 0 | C | 8.3 | 7 | 128 | -4.9 | 6.3 | -1.1 | 2 | C |
| 17 | 384 | 8.7 | 0 | C | 8.1 | -3 | 144 | -6.4 | 4.4 | -1.7 | 1 | C |
| 18 | 382 | 8.0 | 0 | C | 7.4 | -23 | 161 | -6.4 | 1.5 | -3.2 | 1 | C |
| 19 | 378 | 7.4 | 0 | C | 7.0 | -16 | 146 | -5.5 | 3.4 | -2.4 | 1 | C |
| 20 | 373 | 6.4 | 0 | C | 6.9 | -13 | 137 | -4.8 | 4.2 | -2.0 | 1 | C |
| 21 | 368 | 6.1 | 0 | C | 6.9 | -18 | 154 | -5.5 | 2.5 | -2.2 | 2 | C |
| 22 | 367 | 6.3 | 0 | C | 6.5 | -16 | 170 | -6.0 | 1.0 | -1.8 | 1 | C |
| 23 | 367 | 6.2 | 0 | C | 6.4 | -10 | 192 | -6.1 | -1.4 | -1.0 | 0 | C |
| 24 | 369 | 6.8 | 0 | C | 6.7 | -6 | 196 | -6.3 | -1.8 | -0.6 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 451 | 2.2 | 0 | C | 5.5 | -35 | 195 | -4.0 | -1.3 | -2.8 | 2 | C |
| 2 | 429 | 2.4 | 0 | C | 5.4 | -21 | 199 | -4.6 | -1.8 | -1.7 | 1 | C |
| 3 | 435 | 2.3 | 0 | C | 5.5 | -11 | 141 | -3.9 | 3.0 | -1.4 | 2 | C |
| 4 | 436 | 2.2 | 0 | C | 5.7 | -17 | 136 | -3.7 | 3.2 | -2.2 | 1 | C |
| 5 | 358 | 2.3 | 0 | C | 6.0 | -27 | 168 | -4.6 | 0.4 | -2.6 | 2 | C |
| 6 | 358 | 2.5 | 0 | C | 6.1 | -28 | 170 | -5.2 | -0.0 | -3.0 | 1 | C |
| 7 | 361 | 2.4 | 0 | C | 6.1 | -15 | 150 | -4.8 | 2.0 | -2.4 | 2 | C |
| 8 | 407 | 2.4 | 0 | C | 5.7 | -27 | 126 | -2.7 | 2.6 | -3.7 | 2 | C |
| 9 | 411 | 2.5 | 0 | C | 5.9 | -24 | 128 | -3.3 | 2.8 | -4.0 | 0 | C |
| 10 | 368 | 2.5 | 38 | J | | | | | | | | |
| 11 | 290 | 2.0 | 27 | J | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | 5.9 | 11 | 125 | -2.9 | 4.2 | -0.9 | 2 | J |
| 15 | 360 | 2.8 | 30 | J | 5.8 | -21 | 140 | -3.8 | 2.2 | -3.0 | 2 | J |
| 16 | 358 | 2.7 | 29 | J | 5.5 | -10 | 119 | -2.4 | 3.8 | -2.3 | 2 | J |
| 17 | 355 | 2.7 | 31 | J | 5.3 | 0 | 116 | -2.1 | 4.1 | -1.2 | 2 | J |
| 18 | 350 | 3.1 | 32 | J | 5.2 | 10 | 119 | -2.2 | 4.1 | -0.1 | 2 | J |
| 19 | 372 | 3.3 | 41 | J | 5.3 | 14 | 120 | -2.3 | 4.1 | 0.5 | 2 | J |
| 20 | 369 | 3.1 | 42 | J | 5.0 | 8 | 121 | -1.9 | 3.2 | 0.1 | 3 | J |
| 21 | 353 | 2.7 | 34 | J | 5.1 | -17 | 155 | -4.2 | 1.8 | -1.6 | 1 | J |
| 22 | 351 | 2.8 | 28 | J | 5.7 | -23 | 157 | -4.7 | 1.8 | -2.3 | 1 | J |
| 23 | 359 | 2.3 | 26 | J | 5.6 | -17 | 154 | -4.5 | 2.1 | -1.6 | 2 | J |
| 24 | 358 | 2.5 | 33 | J | 5.4 | 8 | 128 | -3.2 | 4.1 | 0.5 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 330 | 4.4 | 13 | J | 4.0 | 14 | 103 | -0.8 | 3.7 | 0.6 | 1 | J |
| 2 | 336 | 5.3 | 14 | J | 3.8 | 21 | 83 | 0.4 | 3.7 | 0.9 | 1 | J |
| 3 | 328 | 4.5 | 12 | J | 3.8 | 12 | 104 | -0.8 | 3.4 | 0.2 | 1 | J |
| 4 | 345 | 5.4 | 25 | J | 3.8 | 12 | 64 | 1.4 | 3.0 | 0.1 | 2 | J |
| 5 | 338 | 5.5 | 18 | J | 3.8 | -7 | 69 | 1.3 | 3.1 | -1.3 | 1 | J |
| 6 | 327 | 5.0 | 13 | J | 3.7 | 11 | 69 | 1.1 | 3.0 | -0.3 | 2 | J |
| 7 | 316 | 4.2 | 18 | J | 4.0 | 4 | 127 | -2.2 | 2.8 | -0.8 | 2 | J |
| 8 | 313 | 3.2 | 19 | J | 4.8 | -4 | 147 | -4.0 | 2.3 | -1.3 | 1 | J |
| 9 | 324 | 3.9 | 21 | J | 5.0 | -4 | 133 | -3.3 | 3.1 | -1.8 | 1 | J |
| 10 | 332 | 4.3 | 16 | J | 5.3 | 5 | 121 | -2.7 | 4.2 | -1.6 | 1 | J |
| 11 | 329 | 5.0 | 14 | J | 5.4 | 5 | 121 | -2.8 | 4.3 | -1.7 | 1 | J |
| 12 | 329 | 6.6 | 18 | J | 5.5 | 0 | 125 | -3.1 | 3.9 | -2.1 | 1 | J |
| 13 | 331 | 8.1 | 18 | J | 5.7 | 4 | 123 | -2.9 | 4.2 | -1.7 | 2 | J |
| 14 | 335 | 11.2 | 16 | J | 5.6 | -18 | 123 | -2.7 | 3.1 | -3.3 | 2 | J |
| 15 | 336 | 12.6 | 15 | J | 6.0 | -6 | 115 | -2.5 | 4.7 | -2.6 | 1 | J |
| 16 | 337 | 12.6 | 19 | J | 6.0 | -34 | 119 | -0.8 | 0.9 | -1.5 | 6 | J |
| 17 | 343 | 9.2 | 35 | J | 5.4 | -14 | 285 | 1.3 | -5.0 | 0.2 | 1 | J |
| 18 | 347 | 9.5 | 43 | J | 5.1 | -1 | 278 | 0.6 | -4.1 | 0.9 | 3 | J |
| 19 | 345 | 10.1 | 44 | J | 4.9 | -14 | 275 | 0.4 | -4.5 | -0.3 | 2 | J |
| 20 | 351 | 10.9 | 41 | J | 5.3 | -40 | 260 | -0.7 | -4.1 | -2.6 | 2 | J |
| 21 | 372 | 13.4 | 72 | J | 6.7 | -62 | 161 | -2.4 | 0.3 | -4.7 | 4 | J |
| 22 | 377 | 13.7 | 67 | J | 7.8 | -24 | 99 | -1.0 | 6.3 | -3.4 | 3 | J |
| 23 | 376 | 14.8 | 80 | J | 6.7 | -68 | 291 | 0.8 | -2.5 | -5.4 | 3 | J |
| 24 | 378 | 15.0 | 69 | J | 6.9 | -22 | 287 | 1.3 | -4.5 | -1.5 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 374 | 10.1 | 60 | J | 10.8 | 38 | 304 | 4.6 | -6.1 | 7.1 | 3 | J |
| 2 | 365 | 12.0 | 0 | C | 11.7 | 29 | 297 | 4.5 | -8.0 | 6.6 | 3 | J |
| 3 | 354 | 11.8 | 115 | J | 10.0 | 19 | 327 | 7.3 | -4.1 | 3.8 | 3 | J |
| 4 | 389 | 11.4 | 113 | J | 10.7 | 39 | 286 | 2.1 | -5.8 | 7.6 | 4 | J |
| 5 | 384 | 11.5 | 137 | J | 9.9 | 31 | 296 | 3.5 | -5.5 | 6.5 | 4 | J |
| 6 | 387 | 11.5 | 169 | J | 9.5 | -20 | 321 | 5.5 | -5.1 | -1.0 | 6 | J |
| 7 | 385 | 9.9 | 135 | J | 10.2 | -2 | 296 | 4.2 | -8.1 | 2.8 | 3 | J |
| 8 | 380 | 7.6 | 137 | J | 9.9 | 8 | 306 | 4.5 | -5.3 | 3.5 | 6 | J |
| 9 | 393 | 7.5 | 106 | J | 10.3 | 27 | 291 | 2.6 | -4.5 | 6.4 | 6 | J |
| 10 | 406 | 7.6 | 108 | J | 10.1 | 35 | 291 | 2.6 | -3.7 | 7.7 | 4 | J |
| 11 | | | | | 10.4 | 27 | 294 | 3.7 | -5.1 | 8.0 | 2 | J |
| 12 | | | | | 11.3 | -35 | 321 | 6.9 | -7.8 | -2.8 | 3 | J |
| 13 | 376 | 4.9 | 0 | C | 12.0 | -51 | 321 | 5.8 | -8.4 | -6.0 | 3 | J |
| 14 | 376 | 4.9 | 0 | C | 12.0 | -36 | 316 | 6.2 | -8.1 | -3.0 | 6 | J |
| 15 | 381 | 5.7 | 0 | C | 12.0 | -11 | 301 | 6.0 | -10.0 | 1.9 | 3 | J |
| 16 | 383 | 5.6 | 0 | C | 12.1 | 1 | 301 | 6.1 | -9.4 | 3.8 | 3 | J |
| 17 | 376 | 2.9 | 51 | J | 11.0 | -15 | 304 | 5.8 | -9.0 | -0.1 | 3 | J |
| 18 | 369 | 2.1 | 57 | J | 10.3 | -3 | 300 | 4.6 | -7.9 | 1.5 | 4 | J |
| 19 | 366 | 2.5 | 46 | J | 10.0 | 0 | 314 | 6.8 | -6.9 | 1.3 | 2 | J |
| 20 | 389 | 2.5 | 56 | J | 10.3 | -1 | 313 | 7.0 | -7.4 | 0.9 | 1 | J |
| 21 | 357 | 2.3 | 0 | C | 10.6 | 2 | 317 | 7.7 | -7.1 | 1.2 | 1 | C |
| 22 | 350 | 2.1 | 0 | C | 10.6 | 7 | 316 | 7.6 | -7.1 | 1.9 | 1 | C |
| 23 | 338 | 1.6 | 0 | C | 10.7 | 15 | 316 | 7.4 | -6.9 | 3.4 | 0 | C |
| 24 | 361 | 1.4 | 0 | C | 9.8 | 21 | 318 | 6.7 | -5.7 | 4.0 | 2 | J |

08/05/80 – 08/12/80

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 HR    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                 1000  SC  MAGN LAT LON                    SC                 1000  SC  MAGN LAT LON                    SC

                              AUG.  5, 1980                 218                      AUG.  6, 1980                219

  1    375  0.8  58  J    9.4   9 310   5.9  -6.8   2.2  1  C    467 12.9 181  J    8.3 -49  23   1.6   0.5  -2.1  8  J
  2    367  7.6  40  J    7.6   4 315   5.2  -5.1   1.2  2  J    471 12.9 200  J   10.6  21 313   4.0  -3.9   2.8  9  J
  3    378  7.6  31  J    6.2  14 307   3.6  -4.4   2.3  1  J    475 14.4 206  J    9.1 -28  53   3.6   4.1  -4.0  6  J
  4    374  7.6  34  J    5.7  10 311   3.7  -3.9   1.9  0  J    497 12.9 252  J    6.2  44  35   2.1   2.2   2.1  5  J
  5    379  7.3  50  J    4.8  25 320   3.2  -2.0   2.6  2  J    486 11.3 208  J    8.7  22 286   2.0  -5.8   4.7  4  J
  6    368  6.7  59  J    4.0  13   6   3.8   0.7   0.7  1  J    483  9.7 142  J    9.9  45 287   1.9  -3.7   8.2  4  J
  7    377  6.7  67  J    3.9 -10  16   3.1   0.6  -0.9  2  J    487 11.1 154  J    8.2  23 288   2.0  -4.7   4.8  4  J
  8    373  5.7  60  J    3.8 -20 359   3.4  -0.6  -1.1  1  J    488 11.2 107  J    7.9  29 279   0.9  -4.0   5.5  4  J
  9    382  5.7  73  J    4.0 -21 352   3.3  -1.0  -0.9  2  J    492 10.7  73  J    7.5  83 263  -0.0   0.9   2.6  7  J
 10    395  6.8  98  J    4.4 -32 332   2.9  -2.3  -1.1  2  J    479 10.4 104  J    6.2 -33 252  -1.2  -4.6  -0.5  4  J
 11                       4.9 -28 327   3.3  -2.9  -0.8  2  J    478  9.4  90  J    7.3  22 279   1.0  -4.3   5.3  3  J
 12                       5.4 -34 292   1.4  -4.2  -0.6  3  J    476  5.4  43  J    9.2  15 278   1.2  -6.4   6.2  2  J
 13    404  6.7  82  J    5.5 -13 315   3.7  -3.8   0.6  1  J    477  5.7  43  J    9.1  35 282   1.5  -4.0   8.0  1  J
 14                                                              495 31.5  20  J    7.7  27 290   2.2  -3.9   5.5  3  J
 15    394  5.8   0  C                                                              7.0  50 314   3.0  -0.7   6.0  2  J
 16    394  5.8   0  C    5.0  44   6   3.5   1.6   3.0  1  J                       5.0  40 357   3.4   0.9   2.8  2  J
 17    405  5.3  64  J    4.9  26 323   3.2  -1.7   2.6  2  J                       4.5  20  14   4.1   1.4   1.2  1  J
 18    420  6.1  60  J    4.7  78 263  -0.1   0.1   3.1  4  J                       4.6 -41  24   2.7   0.5  -2.8  3  J
 19    412  6.5  66  J    5.0  12 291   1.3  -3.3   1.4  3  J    463 30.4  33  J    5.3 -49   5   2.2  -0.3  -2.6  4  J
 20    392  6.7  76  J    5.0   0 312   3.1  -3.4   0.5  2  J    516 22.1  31  J    5.3 -41 265  -0.3  -4.3  -2.7  2  J
 21    412  6.5  66  J    4.8  46 299   1.3  -2.1   3.1  3  J                       5.6 -14 238  -2.6  -4.3  -0.7  2  J
 22    416  6.8  75  J    4.9  75 139  -0.8   1.1   4.1  2  J                       5.0 -27 240  -2.2  -4.0  -1.8  1  J
 23    405  7.3  70  J    5.0  65  36   1.4   1.4   3.7  3  J    420  5.4   0  C    5.3 -28 238  -2.4  -4.1  -2.1  1  C
 24    400  8.0  85  J    5.5  30 311   2.3  -2.4   2.2  4  J    432  6.0  33  J    4.8 -42 272   0.1  -3.1  -2.3  3  J

                              AUG.  7, 1980                 220                      AUG.  8, 1980                221

  1    434  5.0  38  J    4.4 -35 291   1.2  -3.5  -2.0  1  J    364  6.4   0  C    5.2 -38 280   0.7  -4.3  -2.6  1  C
  2    437  4.9  76  J    4.5 -38 309   2.1  -3.0  -2.2  1  J    362  5.4   0  C    4.7 -28 268  -0.2  -4.3  -1.5  1  C
  3    411  6.0  27  J    4.2 -36  21   3.1   0.7  -2.6  1  J    361  5.7   0  C    4.4 -37 283   0.7  -3.6  -1.8  1  C
  4    411  5.6  27  J    4.4 -37  27   2.9   0.9  -2.7  2  J    361  6.0   0  C    3.3   1 262  -0.4  -2.7   0.7  1  C
  5    411  5.5  29  J    4.3 -32   4   3.0  -0.3  -1.8  2  J    357  5.7   0  C    3.8 -25 297   1.5  -3.3  -0.6  1  C
  6    414  4.6  28  J    4.5 -51 331   2.1  -2.1  -2.4  2  J    352  5.4   0  C    4.0 -20 294   1.4  -3.5  -0.1  1  C
  7    408  4.2  27  J    4.6 -55  29   2.1  -0.2  -3.5  2  J    351  5.3   0  C    4.2  -7 322   3.2  -2.5   0.5  1  C
  8    397  4.1  25  J    4.8 -38  10   3.3  -0.6  -2.6  2  J    352  5.0   0  C    4.1  -6 323   3.3  -2.4   0.7  0  C
  9    395  4.2  27  J    4.9 -30  16   3.7  -0.1  -2.5  2  J    353  4.9   0  C
 10    397  5.8  21  J    4.8 -31  34   3.3   0.8  -3.1  1  J
 11
 12
 13    385  4.5   0  C    4.3  -7   9   4.2   0.3  -0.8  0  C    331  9.4   0  C
 14    385  4.5   0  C    4.4 -10  16   4.2   0.7  -1.2  1  C    331  9.4   0  C    2.8  16 338   2.4  -0.5   1.1  1  C
 15    375  4.5   0  C    4.3 -23  21   2.9   0.5  -1.6  2  C    336 10.9   0  C    2.0   8 344   1.8  -0.4   0.5  0  C
 16    379  4.6   0  C    4.1 -49 223  -1.9  -2.7  -2.1  1  C    330 10.8   0  C    2.1 -16 347   1.9  -0.6  -0.4  1  C
 17    375  4.8   0  C    3.8 -49 268  -0.1  -3.0  -1.8  1  C    333 10.0   0  C    2.5   2 330   2.1  -1.1   0.4  1  C
 18    365  4.6   0  C    4.2 -53   4   1.6  -0.4  -2.1  3  C    333  7.2   0  C    3.7  -2 146  -2.8   1.8  -0.6  2  C
 19    381  4.0   0  C    4.5 -56   6   2.3  -0.4  -3.4  2  C    333  5.5   0  C    4.4  -4 140  -3.4   2.7  -0.9  0  C
 20    367  4.4   0  C    4.5 -38  18   3.3   0.6  -2.8  1  C    328  5.3   0  C    4.9  -8 138  -3.6   3.1  -1.1  0  C
 21    367  4.9   0  C    4.8 -64 343   1.9  -1.1  -4.0  1  C    324  5.3   0  C    4.8 -14 129  -2.9   3.4  -1.6  0  C
 22    369  5.6   0  C    5.1 -49 291   1.1  -3.1  -3.0  2  C    324  5.7   0  C    5.0 -18 129  -3.0   3.5  -1.9  1  C
 23    366  5.3   0  C    4.8 -52 281   0.4  -2.4  -2.6  3  C    330  7.7   0  C    5.7 -26 132  -3.4   3.5  -2.9  1  C
 24    367  5.6   0  C    4.8 -62  54   1.1   1.2  -3.8  2  C    323 11.3   0  C    3.7 -50  59   0.8   1.1  -2.0  3  C

                              AUG.  9, 1980                 222                      AUG. 10, 1980                223

  1    319 11.3   0  C    4.6  13 309   2.6  -3.1   1.4  2  C    376  6.8   0  C    7.2  29 135  -4.4   4.8   2.9  1  C
  2    324  5.9   0  C    5.6  20 304   2.9  -4.0   2.5  1  C    384  7.3   0  C    7.0  53 135  -2.7   3.5   4.5  3  C
  3    319  7.8   0  C    4.7   8 305   2.5  -3.3   1.3  2  C    385  8.0   0  C    7.2   8 104  -1.5   5.9  -0.4  3  C
  4    322  9.9   0  C    3.6   0 323   2.3  -1.7   0.4  2  C    386  8.1   0  C    8.5 -10  88   0.3   7.0  -3.2  3  C
  5    320 10.3   0  C    4.2  28 336   3.4  -0.8   2.3  1  C    386  8.6   0  C    9.1 -26  63   3.6   5.5  -5.7  2  C
  6    322 13.6   0  C    3.1  28 341   1.8  -0.2   1.2  2  C    388  8.9   0  C    8.5 -16 105  -1.6   4.8  -3.6  5  C
  7    339 16.1   0  C    4.8 -34 286   1.0  -4.4  -1.0  2  C    394  9.6   0  C    7.3  52 139  -3.0   4.5   3.8  3  C
  8    346 15.9   0  C    6.1   9 298   2.8  -4.3   3.1  1  C    397 10.1   0  C    6.4  46 135  -2.8   4.2   2.4  3  C
  9    348 15.5   0  C                                           397 10.2   0  C
 10
 11
 12
 13    369 22.2   0  C    5.0  -4 350   4.9  -0.9   0.1  0  C    380  7.4   0  C    7.2  84 144  -0.6   3.7   5.9  2  C
 14    369 22.2   0  C    3.8   9 352   3.6  -0.2   0.7  1  C    380  7.4   0  C    7.9  66 267  -0.2   0.4   7.4  3  C
 15    368 24.1   0  C    4.4  67  16   1.3   1.7   2.7  3  C    376  6.8   0  C    5.3  76  12   0.9   1.8   3.4  4  C
 16    322 13.7   0  C    6.6  54 115  -1.6   5.1   3.6  1  C    375  7.7   0  C    4.0  19 121  -1.6   2.8   0.0  2  C
 17    328 10.0   0  C    6.9  74  95  -0.2   3.8   5.5  1  C    383  7.5   0  C    5.2  23 142  -3.6   3.2   0.9  2  C
 18    334  5.9   0  C    6.9  76 124  -0.9   3.0   5.9  1  C    383  7.0   0  C    5.1  11 145  -3.9   2.9   0.1  1  C
 19    343  6.5   0  C    6.7  48 149  -3.7   3.1   4.1  2  C    364  7.0   0  C    5.2   5 151  -4.3   2.4  -0.1  2  C
 20    361  6.1   0  C    5.9 -62 140  -1.7   0.7  -4.3  3  C    366  7.3   0  C    5.5   2 128  -3.2   4.1  -0.5  2  C
 21    387  7.0   0  C    6.1  15 123  -2.5   4.0   0.7  4  C    361  7.4   0  C    5.1  18 150  -4.0   2.5   1.1  1  C
 22    386  5.3   0  C    5.8  -5 131  -3.7   4.1  -0.9  1  C    362 10.2   0  C    4.1  12 118  -1.8   3.5   0.4  0  C
 23    378  7.5   0  C    5.8 -46 152  -3.2   1.3  -3.9  2  C    353 10.8   0  C    4.5  -6 146  -3.7   2.4  -0.7  0  C
 24    377  7.9   0  C    6.8  22 140  -4.4   3.9   1.9  3  C    353 10.8   0  C    4.6  -6 144  -3.7   2.6  -0.8  0  C

                              AUG. 11, 1980                 224                      AUG. 12, 1980                225

  1    343 10.8   0  C    4.6   2 134  -3.2   3.2  -0.3  0  C    333 16.5   0  C    7.6 -65 124  -0.7   0.6  -2.9  7  C
  2    338  9.3   0  C    5.3  -2 128  -3.3   4.1  -0.9  1  C    340 21.4   0  C    6.0  66 298   1.1  -1.1   5.7  1  C
  3    330  8.4   0  C    5.5   5 137  -3.9   3.8  -0.3  1  C    336 15.6   0  C    6.9  48 311   2.5  -1.9   4.8  4  C
  4    326  9.3   0  C    5.2  -1 131  -3.2   3.6  -1.0  2  C    346 15.6   0  C    8.0  54 338   4.3  -0.0   6.6  2  C
  5    316 10.8   0  C    5.0  -9 113  -1.8   3.9  -2.0  1  C    348 18.3   0  C    5.7  12  42   3.4   3.2  -0.0  3  J
  6    302 11.7   0  C    4.9  -5 140  -3.3   2.4  -1.3  2  C    343 15.8   0  C    6.2  16  48   3.8   4.5   0.0  2  J
  7    307 10.4   0  C    5.1   0 156  -4.6   1.9  -0.8  1  C    355 13.8   0  C    5.9  18  44   3.8   4.1   0.1  2  J
  8    310  9.4   0  C                                           348 11.4  62  J
  9
 10
 11                                                              368  8.3  31  J
 12                                                              365  8.1  40  J
 13    294  9.5   0  C                                           358  8.6  42  J    3.7  13  30   3.1   2.0  -0.1  0  C
 14    294  9.5   0  C    4.1  -2 117  -1.8   3.0  -1.8  1  C    344  8.0   0  C    3.9  17  26   2.8   1.6   0.2  2  C
 15    302  9.4   0  C    4.1   1 133  -2.7   2.6  -1.2  1  C    338  7.4   0  C    3.8  10  17   3.0   1.0   0.1  2  C
 16    303  9.1   0  C    4.1   9 151  -3.5   2.0  -0.2  1  C    321  7.3   0  C    3.7  19  76   0.4   2.0  -0.1  3  C
 17    295 10.1   0  C    4.0   7 145  -3.2   2.3  -0.3  0  C    315  6.6   0  C    4.2  20  44   2.6   2.7   0.4  2  C
 18    312 12.1   0  C    6.2  15 124  -3.1   4.8   0.2  2  C    332  5.8   0  C    4.4  34  11   3.5   1.4   2.1  1  C
 19    322 14.2   0  C    5.8   5 112  -2.1   5.1  -0.6  2  C    341  7.3  26  J    4.8  50  11   3.0   1.4   3.4  1  C
 20    318 20.8   0  C    4.9  -9 100  -0.3   1.7  -0.6  4  C    342  5.9  24  J    5.2  52  23   2.8   1.8   3.6  2  C
 21    320 19.9   0  C    6.5  -3  98  -0.8   6.0  -1.2  2  C    322  6.5  22  J    5.2   5  95  -0.5   5.1  -0.3  1  C
 22    330 15.8   0  C    6.5  59  73   0.8   3.0   4.0  4  C    325  6.1  14  J    5.2   3  97  -0.6   4.8  -0.3  2  J
 23    334 19.6   0  C    6.9 -12 305   3.2  -4.7  -0.6  4  C    323  6.7  16  J    5.0 -20  99  -0.7   4.1  -2.1  2  J
 24    342 21.0   0  C    8.8 -84 337   0.9  -1.4  -8.5  1  C    318  4.8  14  J    5.2   1 100  -0.8   4.7  -0.5  2  J
```

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08/13/80 – 08/20/80

### AUG. 13, 1980

226

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 314 | 6.5 | 14 | J | 5.0 | -2 | 106 | -1.2 | 4.2 | -0.8 | 2 | J |
| 2 | 332 | 12.2 | 13 | J | 3.4 | 29 | 77 | 0.6 | 2.8 | 1.0 | 2 | J |
| 3 | 330 | 18.3 | 10 | J | 2.0 | 53 | 61 | 0.6 | 1.3 | 1.3 | 0 | J |
| 4 | 330 | 18.3 | 10 | J | 2.5 | 31 | 74 | 0.6 | 2.2 | 0.7 | 1 | J |
| 5 | 331 | 18.1 | 11 | J | 2.5 | 37 | 85 | 0.2 | 2.3 | 0.8 | 1 | J |
| 6 | 333 | 15.0 | 11 | J | 3.0 | 29 | 107 | -0.7 | 2.7 | 0.4 | 1 | J |
| 7 | 332 | 7.8 | 15 | J | 5.6 | 62 | 315 | 1.8 | 0.3 | 5.0 | 2 | J |
| 8 | 332 | 7.8 | 14 | J | 6.1 | 78 | 349 | 1.2 | 2.4 | 5.4 | 1 | J |
| 9 | 329 | 7.6 | 12 | J | 6.1 | 58 | 93 | -0.2 | 5.2 | 3.0 | 1 | J |
| 10 | 332 | 7.9 | 12 | J | 5.8 | 53 | 82 | 0.5 | 5.2 | 2.0 | 1 | J |
| 11 | 327 | 6.8 | 14 | J | 6.4 | 35 | 93 | -0.3 | 6.3 | 0.5 | 1 | J |
| 12 | 327 | 8.2 | 18 | J | 6.3 | 22 | 64 | 2.4 | 5.4 | -0.6 | 2 | J |
| 13 | 323 | 8.8 | 16 | J | 6.2 | 9 | 75 | 1.6 | 5.5 | -2.0 | 1 | J |
| 14 | 321 | 8.9 | 16 | J | 6.6 | 19 | 92 | -0.2 | 6.2 | -1.0 | 2 | J |
| 15 | 321 | 9.9 | 26 | J | 6.3 | 12 | 106 | -1.3 | 4.7 | -1.1 | 4 | J |
| 16 | 320 | 10.2 | 25 | J | 5.5 | -3 | 93 | -0.3 | 4.7 | -2.3 | 2 | J |
| 17 | 328 | 10.4 | 26 | J | 5.5 | -24 | 65 | 2.0 | 3.3 | -3.4 | 2 | J |
| 18 | 318 | 9.4 | 30 | J | 5.9 | 37 | 115 | -1.8 | 4.6 | 2.0 | 3 | J |
| 19 | 317 | 9.0 | 30 | J | 5.9 | 50 | 140 | -2.8 | 3.3 | 3.7 | 1 | J |
| 20 | 316 | 8.9 | 37 | J | 6.2 | 33 | 142 | -3.9 | 3.6 | 2.6 | 2 | J |
| 21 | 309 | 9.2 | 24 | J | 6.0 | 29 | 109 | -1.6 | 5.2 | 2.1 | 2 | J |
| 22 | 318 | 8.7 | 22 | J | 6.4 | -18 | 80 | 1.1 | 5.7 | -2.7 | 1 | J |
| 23 | 318 | 8.4 | 33 | J | 5.7 | -1 | 107 | -1.4 | 4.4 | -0.6 | 3 | J |
| 24 | 328 | 7.7 | 40 | J | 5.6 | -14 | 91 | -0.1 | 4.0 | -1.6 | 4 | J |

### AUG. 15, 1980

228

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 331 | 7.1 | 43 | J | 5.3 | -13 | 121 | -1.0 | 1.6 | -0.7 | 5 | J |
| 2 | 315 | 9.5 | 0 | C | 6.3 | 12 | 119 | -2.9 | 5.5 | 0.3 | 1 | J |
| 3 | 318 | 10.8 | 0 | C | 6.7 | 20 | 111 | -2.2 | 6.1 | 0.9 | 1 | J |
| 4 | 320 | 12.0 | 0 | C | 7.5 | -53 | 345 | 4.3 | -2.7 | -5.4 | 1 | J |
| 5 | 322 | 13.4 | 0 | C | 5.4 | 12 | 259 | -0.8 | -3.6 | 2.2 | 3 | J |
| 6 | 332 | 12.3 | 45 | J | 4.2 | -16 | 294 | 1.5 | -3.5 | 0.2 | 2 | J |
| 7 | 340 | 13.2 | 39 | J | 3.6 | -5 | 303 | 1.3 | -1.9 | 0.6 | 3 | J |
| 8 | 346 | 13.9 | 48 | J | 3.1 | 10 | 148 | -2.5 | 1.6 | -0.2 | 1 | J |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 342 | 13.7 | 26 | J | 2.8 | -42 | 106 | -0.5 | 0.7 | -2.3 | 2 | J |
| 11 | 340 | 13.8 | 32 | J | 1.5 | -43 | 343 | 0.6 | -0.5 | -0.4 | 1 | J |
| 12 | 340 | 12.6 | 30 | J | 2.3 | 15 | 334 | 1.5 | -0.4 | 0.7 | 2 | J |
| 13 | 345 | 10.9 | 39 | J | 3.6 | -27 | 145 | -2.0 | 0.6 | -1.8 | 2 | J |
| 14 | 352 | 9.4 | 60 | J | 4.1 | -32 | 140 | -2.5 | 0.9 | -2.8 | 1 | J |
| 15 | 342 | 9.8 | 35 | J | 3.5 | -64 | 266 | -0.1 | -2.0 | -1.6 | 2 | J |
| 16 | 327 | 8.0 | 30 | J | 4.8 | -6 | 307 | 2.7 | -3.6 | 1.0 | 1 | J |
| 17 | 321 | 8.5 | 31 | J | 5.5 | -8 | 310 | 3.4 | -4.1 | 0.7 | 1 | J |
| 18 | 334 | 8.8 | 27 | J | 5.3 | 31 | 288 | 1.3 | -3.1 | 3.6 | 2 | J |
| 19 | 336 | 8.9 | 20 | J | 5.5 | 22 | 288 | 1.5 | -4.1 | 3.0 | 1 | J |
| 20 | 303 | 9.5 | 0 | C | 5.5 | -2 | 301 | 2.8 | -4.6 | 0.7 | 1 | J |
| 21 | 313 | 9.0 | 34 | J | 5.4 | -14 | 310 | 3.3 | -4.1 | -0.6 | 1 | J |
| 22 | 314 | 8.7 | 26 | J | 5.8 | -4 | 304 | 3.2 | -4.7 | 0.3 | 1 | J |
| 23 | 314 | 9.5 | 21 | J | 5.6 | 7 | 304 | 3.0 | -4.4 | 1.3 | 1 | J |
| 24 | 311 | 10.3 | 20 | J | 5.4 | 0 | 308 | 3.1 | -3.9 | 0.5 | 2 | J |

### AUG. 17, 1980

230

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 21.7 | 90 | J | 11.5 | 25 | 320 | 7.8 | -5.7 | 5.8 | 2 | J |
| 2 | 347 | 15.1 | 74 | J | 12.1 | 50 | 338 | 6.7 | -1.0 | 8.9 | 4 | J |
| 3 | 337 | 12.1 | 47 | J | 11.9 | 40 | 326 | 7.3 | -3.1 | 8.3 | 3 | J |
| 4 | 335 | 13.7 | 63 | J | 10.5 | 32 | 320 | 6.6 | -3.8 | 6.7 | 3 | J |
| 5 | 332 | 13.4 | 71 | J | 9.8 | 24 | 314 | 5.5 | -4.3 | 5.2 | 5 | J |
| 6 | 332 | 12.6 | 68 | J | 9.5 | -9 | 284 | 2.0 | -7.9 | 1.8 | 5 | J |
| 7 | 338 | 11.9 | 79 | J | 8.6 | 21 | 296 | 1.8 | -2.6 | 2.9 | 7 | J |
| 8 | 333 | 9.2 | 75 | J | 9.5 | -18 | 296 | 3.5 | -7.5 | 1.0 | 4 | J |
| 9 | 346 | 8.4 | 85 | J | 8.3 | -50 | 239 | -2.6 | -6.8 | -3.2 | 3 | J |
| 10 | 345 | 7.0 | 71 | J | 7.7 | -34 | 266 | -0.4 | -7.5 | -0.4 | 2 | J |
| 11 | 360 | 6.1 | 92 | J | 9.0 | -6 | 281 | 1.5 | -7.2 | 3.4 | 4 | J |
| 12 | 377 | 8.6 | 92 | J | 8.6 | -44 | 276 | 0.6 | -8.2 | -1.9 | 2 | J |
| 13 | 355 | 6.5 | 96 | J | 8.6 | -59 | 259 | -0.8 | -7.2 | -4.0 | 2 | J |
| 14 | 349 | 8.4 | 0 | C | 8.4 | -44 | 279 | 0.9 | -7.5 | -2.1 | 3 | J |
| 15 | 336 | 7.6 | 0 | C | 8.1 | -33 | 288 | 2.0 | -7.6 | -1.0 | 2 | J |
| 16 | 348 | 8.2 | 108 | J | 7.6 | -34 | 304 | 3.5 | -6.4 | -1.8 | 1 | J |
| 17 | 353 | 9.1 | 118 | J | 7.3 | -31 | 311 | 3.9 | -5.5 | -1.8 | 2 | J |
| 18 | 338 | 6.8 | 54 | J | 7.7 | -57 | 307 | 2.4 | -4.9 | -5.0 | 2 | J |
| 19 | 336 | 7.8 | 57 | J | 6.7 | -69 | 284 | 0.6 | -3.7 | -5.3 | 2 | J |
| 20 | 340 | 19.0 | 28 | J | 4.7 | -35 | 292 | 1.1 | -3.1 | -1.5 | 3 | J |
| 21 | 348 | 17.9 | 29 | J | 5.7 | -45 | 129 | -2.3 | 2.2 | -4.0 | 3 | J |
| 22 | 326 | 18.1 | 0 | C | 6.9 | -19 | 122 | -2.4 | 3.6 | -2.2 | 5 | C |
| 23 | 377 | 7.9 | 48 | J | 7.0 | 67 | 344 | 2.5 | 0.1 | 6.2 | 2 | J |
| 24 | 376 | 9.3 | 34 | J | 7.4 | 60 | 36 | 2.3 | 2.4 | 4.6 | 5 | J |

### AUG. 19, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 377 | 9.5 | 28 | J | 3.5 | -52 | 334 | 0.8 | -0.6 | -1.0 | 3 | J |
| 2 | 373 | 9.1 | 21 | J | 5.0 | -66 | 205 | -1.8 | -1.7 | -4.1 | 1 | J |
| 3 | 372 | 10.8 | 0 | C | 5.3 | -74 | 250 | -0.5 | -2.5 | -4.5 | 1 | C |
| 4 | 358 | 12.7 | 0 | C | 5.7 | -60 | 266 | -0.2 | -3.8 | -3.7 | 2 | C |
| 5 | 357 | 13.2 | 0 | C | 5.7 | -69 | 260 | -0.3 | -2.5 | -2.9 | 4 | C |
| 6 | 370 | 13.7 | 0 | C | 5.6 | -62 | 293 | 0.9 | -3.7 | -3.4 | 2 | C |
| 7 | 372 | 12.7 | 0 | C | 5.9 | -34 | 310 | 3.0 | -4.6 | -1.3 | 1 | C |
| 8 | 372 | 12.0 | 19 | J | 6.9 | -24 | 310 | 4.0 | -5.6 | -0.2 | 1 | J |
| 9 | 370 | 9.7 | 20 | J | 7.2 | -19 | 306 | 3.9 | -5.9 | 0.7 | 1 | J |
| 10 | 367 | 9.9 | 25 | J | 6.8 | -18 | 300 | 3.2 | -5.8 | 1.1 | 2 | J |
| 11 | 414 | 20.0 | 42 | J | 11.1 | -22 | 288 | 3.0 | -9.9 | 1.5 | 5 | J |
| 12 | 419 | 25.0 | 47 | J | 13.0 | -16 | 284 | 2.9 | -11.6 | 3.2 | 4 | J |
| 13 | 416 | 20.6 | 36 | J | 13.2 | 11 | 280 | 2.1 | -9.2 | 8.2 | 4 | J |
| 14 | 418 | 19.1 | 45 | J | 13.7 | -6 | 275 | 1.0 | -11.0 | 4.7 | 7 | J |
| 15 | 424 | 36.2 | 0 | C | 12.5 | -65 | 13 | 3.7 | -3.0 | -7.7 | 8 | C |
| 16 | 433 | 25.5 | 0 | C | 12.0 | 42 | 255 | -2.2 | -4.4 | 10.1 | 3 | C |
| 17 | 440 | 14.4 | 0 | C | 13.2 | 51 | 243 | -3.6 | -3.2 | 11.8 | 3 | C |
| 18 | 442 | 10.5 | 203 | J | 13.6 | 25 | 253 | -3.6 | -9.4 | 8.9 | 2 | C |
| 19 | 426 | 10.9 | 0 | C | 13.1 | -2 | 261 | -2.0 | -12.1 | 2.8 | 2 | C |
| 20 | 444 | 19.4 | 34 | J | 13.4 | -16 | 268 | -0.4 | -13.2 | -1.0 | 2 | C |
| 21 | 446 | 14.8 | 23 | J | 13.4 | 5 | 259 | -2.5 | -12.5 | 3.5 | 2 | C |
| 22 | 441 | 18.7 | 39 | J | 12.0 | 13 | 254 | -3.1 | -10.6 | 4.5 | 1 | C |
| 23 | 431 | 10.9 | 0 | C | 12.2 | 25 | 241 | -5.3 | -8.7 | 6.4 | 2 | C |
| 24 | 446 | 15.1 | 22 | J | 12.0 | 42 | 222 | -6.6 | -4.6 | 8.7 | 2 | C |

### AUG. 14, 1980

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 332 | 7.6 | 65 | J | 4.4 | -2 | 109 | -1.1 | 3.2 | -0.6 | 3 | J |
| 330 | 6.9 | 49 | J | 5.5 | 22 | 145 | -4.0 | 3.1 | 1.4 | 2 | J |
| 327 | 7.1 | 39 | J | 6.0 | 27 | 145 | -4.3 | 3.5 | 2.0 | 1 | J |
| 325 | 6.7 | 36 | J | 6.2 | 30 | 145 | -4.4 | 3.8 | 2.2 | 0 | J |
| 317 | 7.6 | 0 | C | 6.3 | 23 | 133 | -4.0 | 4.7 | 1.0 | 1 | C |
| 316 | 7.7 | 0 | C | 6.0 | 6 | 123 | -3.1 | 4.7 | -1.2 | 1 | C |
| 328 | 7.7 | 31 | J | 5.4 | -17 | 102 | -1.0 | 3.8 | -3.4 | 1 | J |
| 328 | 8.3 | 26 | J | 5.7 | -46 | 69 | 1.0 | 1.1 | -3.8 | 4 | J |
| 309 | 7.7 | 37 | J | 5.9 | 6 | 130 | -3.7 | 4.2 | -1.6 | 1 | J |
| 312 | 7.5 | 42 | J | 5.8 | 9 | 127 | -3.4 | 4.3 | -1.5 | 1 | J |
| 323 | 10.9 | 26 | J | 4.9 | -24 | 56 | 1.7 | 1.5 | -2.5 | 4 | J |
| 326 | 12.5 | 18 | J | 5.5 | -34 | 10 | 4.2 | -0.8 | -2.9 | 2 | J |
| 321 | 13.0 | 17 | J | 5.4 | -35 | 328 | 3.5 | -3.3 | -1.4 | 2 | J |
| 318 | 12.2 | 15 | J | 5.2 | -39 | 335 | 3.6 | -3.0 | -2.0 | 1 | J |
| 317 | 11.2 | 24 | J | 4.5 | -51 | 26 | 1.5 | -0.2 | -2.2 | 4 | J |
| 316 | 10.3 | 41 | J | 4.1 | 3 | 85 | 0.3 | 3.0 | -1.1 | 3 | J |
| 320 | 9.2 | 34 | J | 4.7 | -56 | 356 | 2.5 | -1.4 | -3.4 | 2 | J |
| 318 | 8.4 | 41 | J | 4.4 | -19 | 64 | 0.5 | 0.9 | -0.7 | 4 | J |
| 334 | 6.3 | 47 | J | 4.7 | -21 | 91 | -0.1 | 3.5 | -2.4 | 2 | J |
| 315 | 7.3 | 0 | C | 4.6 | 12 | 119 | -2.2 | 4.0 | 0.2 | 1 | C |
| 320 | 7.1 | 0 | C | 4.5 | 27 | 112 | -1.4 | 3.8 | 1.4 | 1 | C |
| 310 | 8.6 | 0 | C | 4.7 | 20 | 143 | -3.3 | 2.6 | 1.1 | 2 | C |
| 313 | 9.3 | 0 | C | 5.0 | -83 | 312 | 0.2 | -0.5 | -2.2 | 4 | C |
| 329 | 6.9 | 37 | J | 4.5 | -21 | 328 | 3.5 | -2.4 | -1.3 | 1 | C |

### AUG. 16, 1980

229

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 300 | 10.8 | 17 | J | 4.4 | -35 | 58 | 1.7 | 2.4 | -2.7 | 2 | J |
| 282 | 11.0 | 0 | C | 4.7 | -31 | 64 | 1.8 | 3.1 | -3.1 | 0 | J |
| 297 | 10.4 | 10 | J | 4.4 | -41 | 33 | 2.7 | 1.1 | -3.1 | 1 | J |
| 290 | 8.1 | 11 | J | 4.8 | -31 | 38 | 3.2 | 1.7 | -3.0 | 1 | J |
| 288 | 9.3 | 11 | J | 4.7 | -28 | 43 | 3.0 | 2.0 | -3.0 | 0 | J |
| 290 | 9.7 | 12 | J | 4.5 | -26 | 42 | 3.0 | 1.8 | -2.8 | 1 | J |
| 290 | 8.7 | 12 | J | 4.8 | -15 | 42 | 3.4 | 2.3 | -2.4 | 1 | J |
| 301 | 14.0 | 12 | J | 5.9 | -34 | 40 | 3.7 | 1.3 | -4.3 | 1 | J |
| 299 | 14.8 | 19 | J | 6.2 | -15 | 77 | 1.1 | 3.5 | -3.4 | 4 | J |
| 297 | 12.4 | 33 | J | 6.4 | 7 | 102 | -1.2 | 5.2 | -2.2 | 3 | J |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 293 | 12.9 | 31 | J | 5.1 | -8 | 97 | -0.6 | 3.7 | -3.0 | 2 | J |
| 323 | 18.1 | 29 | J | 10.5 | -8 | 105 | -2.5 | 7.5 | -6.0 | 7 | J |
| 310 | 32.0 | 0 | C | 15.5 | -54 | 78 | 1.4 | 1.4 | -11.6 | 10 | J |
| 388 | 27.3 | 49 | J | 18.6 | -14 | 101 | -3.3 | 13.2 | -11.2 | 6 | J |
| 372 | 27.6 | 41 | J | 20.4 | -23 | 109 | -5.9 | 12.8 | -13.9 | 5 | J |
| 360 | 28.3 | 38 | J | 19.7 | -12 | 108 | -5.9 | 15.7 | -10.1 | 2 | J |
| 366 | 22.1 | 46 | J | 18.8 | 7 | 99 | -2.9 | 18.1 | -3.1 | 3 | J |
| 359 | 14.0 | 65 | J | 19.2 | 38 | 97 | -1.5 | 14.3 | 6.5 | 11 | J |
| 359 | 20.8 | 92 | J | 15.1 | 48 | 93 | -0.5 | 11.9 | 8.9 | 3 | J |
| 356 | 20.0 | 73 | J | 14.7 | 55 | 79 | 1.5 | 9.7 | 10.0 | 4 | J |
| 364 | 16.4 | 92 | J | 14.2 | 50 | 108 | -2.7 | 9.6 | 9.1 | 4 | J |
| 373 | 28.7 | 91 | J | 9.5 | 62 | 80 | 0.7 | 4.9 | 6.8 | 5 | J |
| 370 | 25.0 | 69 | J | 12.5 | 54 | 339 | 6.7 | -1.2 | 10.1 | 3 | J |

### AUG. 18, 1980

231

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 372 | 21.0 | 22 | J | 8.2 | 36 | 65 | 2.5 | 6.1 | 3.4 | 4 | J |
| 372 | 15.8 | 30 | J | 8.3 | 72 | 10 | 2.4 | 1.9 | 7.4 | 2 | J |
| 377 | 16.9 | 31 | J | 7.1 | 80 | 204 | -1.0 | 1.1 | 6.3 | 3 | J |
| 376 | 18.8 | 34 | J | 6.4 | -41 | 73 | 1.0 | 2.2 | -3.7 | 5 | J |
| 371 | 14.1 | 26 | J | 6.8 | -65 | 72 | 0.8 | 0.5 | -5.9 | 3 | J |
| 370 | 7.9 | 25 | J | 8.1 | -88 | 70 | 0.1 | -2.7 | -7.3 | 2 | J |
| 374 | 4.1 | 33 | J | 8.3 | -76 | 264 | -0.2 | -5.1 | -6.3 | 2 | J |
| 375 | 4.9 | 32 | J | 8.3 | -71 | 226 | -1.6 | -4.6 | -5.3 | 4 | J |
| 369 | 5.5 | 32 | J | 8.3 | -66 | 44 | 2.4 | -1.7 | -7.7 | 1 | J |
| 360 | 4.6 | 59 | J | 6.5 | -20 | 57 | 2.7 | 2.6 | -3.6 | 4 | J |
|  |  |  |  | 6.9 | -52 | 33 | 2.6 | -0.6 | -4.3 | 5 | J |
| 372 | 12.5 | 21 | J | 4.6 | -62 | 306 | 1.2 | -3.5 | -2.4 | 1 | J |
| 353 | 11.7 | 0 | C | 2.9 | 52 | 165 | -1.6 | 1.5 | 1.6 | 1 | J |
| 353 | 11.7 | 0 | C | 2.8 | 29 | 127 | -1.3 | 2.0 | 0.2 | 2 | J |
| 359 | 13.1 | 0 | C | 3.3 | -35 | 218 | -2.0 | -2.2 | -0.9 | 1 | J |
| 378 | 13.0 | 36 | J | 3.3 | -41 | 168 | -2.3 | -0.4 | -2.1 | 1 | J |
| 380 | 11.2 | 28 | J | 4.1 | 4 | 118 | -1.9 | 3.5 | -1.0 | 0 | J |
| 365 | 12.4 | 0 | C | 2.0 | 48 | 287 | 0.3 | -0.7 | 1.5 | 1 | J |
| 388 | 10.7 | 39 | J | 3.1 | 50 | 304 | 0.9 | -0.8 | 2.2 | 2 | J |
| 373 | 12.6 | 0 | C | 4.0 | 36 | 358 | 3.2 | 0.4 | 2.3 | 1 | J |
| 387 | 9.7 | 34 | J | 4.9 | 40 | 17 | 3.5 | 1.6 | 2.9 | 0 | J |
| 375 | 12.2 | 31 | J | 3.9 | 39 | 16 | 2.8 | 1.1 | 2.2 | 2 | J |
| 367 | 10.0 | 22 | J | 4.1 | -72 | 190 | -0.8 | -0.5 | -2.4 | 3 | J |
| 362 | 9.1 | 33 | J | 3.6 | -56 | 74 | 0.4 | 1.1 | -2.4 | 2 | J |

### AUG. 20, 1980

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 436 | 12.5 | 0 | C | 11.4 | 48 | 193 | -7.4 | -0.2 | 8.6 | 1 | C |
| 434 | 14.9 | 0 | C | 10.9 | 47 | 183 | -7.3 | 1.2 | 7.9 | 1 | C |
| 418 | 9.9 | 0 | C | 11.3 | 50 | 187 | -7.2 | 1.2 | 8.6 | 1 | C |
| 453 | 10.4 | 20 | J | 10.4 | 46 | 167 | -7.0 | 3.7 | 6.7 | 1 | J |
| 449 | 9.0 | 24 | J | 10.0 | 47 | 176 | -6.7 | 2.9 | 6.7 | 1 | J |
| 452 | 8.7 | 20 | J | 9.7 | 44 | 169 | -6.8 | 3.8 | 5.7 | 1 | J |
| 451 | 10.2 | 20 | J | 9.4 | 39 | 161 | -6.8 | 4.6 | 4.3 | 1 | J |
|  |  |  |  | 8.4 | 28 | 152 | -6.2 | 4.6 | 1.7 | 3 | J |
| 452 | 14.0 | 20 | J | 8.3 | 32 | 152 | -6.2 | 5.1 | 2.2 | 0 | J |
|  |  |  |  | 7.9 | 31 | 146 | -5.5 | 5.3 | 1.5 | 1 | J |
| 438 | 10.0 | 0 | C | 6.0 | 7 | 326 | 3.9 | -1.9 | 1.9 | 4 | J |
| 438 | 10.0 | 0 | C | 7.4 | -33 | 322 | 4.9 | -5.4 | -1.4 | 0 | C |
| 424 | 9.5 | 0 | C | 7.7 | -22 | 315 | 4.9 | -5.7 | 0.1 | 1 | C |
|  |  |  |  | 7.0 | 31 | 324 | 4.6 | -1.2 | 4.6 | 2 | J |
| 421 | 10.2 | 0 | C | 7.2 | 57 | 314 | 2.6 | 0.2 | 6.4 | 2 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 415 | 6.5 | 0 | C | 6.9 | -38 | 333 | 4.8 | -3.8 | -3.1 | 1 | C |
| 396 | 6.5 | 0 | C | 6.7 | -31 | 335 | 5.2 | -3.3 | -2.5 | 1 | C |
| 394 | 7.2 | 0 | C | 6.8 | -51 | 343 | 3.9 | -2.5 | -4.6 | 2 | C |
| 398 | 7.3 | 0 | C | 6.7 | -46 | 322 | 3.6 | -3.7 | -4.0 | 1 | C |
| 404 | 7.8 | 0 | C | 7.1 | -35 | 318 | 4.2 | -4.4 | -3.2 | 1 | C |
| 398 | 7.3 | 0 | C | 7.2 | -34 | 325 | 4.8 | -4.0 | -3.3 | 1 | C |
| 397 | 7.6 | 0 | C | 7.4 | -30 | 318 | 4.2 | -4.3 | -2.7 | 3 | C |
| 403 | 7.5 | 0 | C | 7.7 | -21 | 325 | 5.7 | -4.3 | -2.0 | 2 | C |

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AUG. 21, 1980 234

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 7.3 | 0 | C | 8.0 | -40 | 309 | 3.8 | -5.5 | -4.2 | 1 | C |
| 2 | 387 | 5.9 | 0 | C | 8.1 | -34 | 297 | 3.0 | -6.8 | -3.1 | 1 | C |
| 3 | 399 | 6.7 | 0 | C | 7.8 | -22 | 295 | 2.9 | -6.6 | -1.2 | 2 | C |
| 4 | 403 | 7.4 | 0 | C | 7.5 | -8 | 283 | 1.4 | -5.8 | 0.9 | 4 | C |
| 5 | 390 | 6.8 | 0 | C | 7.8 | -35 | 298 | 2.9 | -6.6 | -2.3 | 1 | C |
| 6 | 394 | 7.6 | 0 | C | 7.1 | -14 | 306 | 3.5 | -5.0 | 0.5 | 3 | C |
| 7 | 394 | 7.7 | 0 | C | 7.3 | -56 | 304 | 2.1 | -5.2 | -3.7 | 2 | C |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 401 | 5.3 | 0 | C | 6.5 | 17 | 352 | 6.2 | 0.3 | 2.0 | 0 | C |
| 13 | 401 | 5.3 | 0 | C | 6.4 | 5 | 326 | 5.2 | -2.7 | 2.2 | 1 | C |
| 14 | 405 | 5.2 | 0 | C | 6.4 | 44 | 333 | 4.0 | 0.3 | 4.7 | 0 | C |
| 15 | 424 | 4.4 | 0 | C | 6.9 | -2 | 294 | 2.7 | -5.4 | 2.4 | 2 | C |
| 16 | 417 | 3.9 | 0 | C | 7.3 | 16 | 312 | 4.7 | -3.9 | 3.9 | 1 | C |
| 17 | 438 | 3.8 | 0 | C | 7.3 | 21 | 303 | 3.6 | -4.2 | 4.4 | 2 | C |
| 18 | 421 | 4.1 | 0 | C | 7.0 | 18 | 291 | 2.4 | -5.1 | 3.9 | 1 | C |
| 19 | 416 | 4.2 | 0 | C | 7.0 | 11 | 295 | 2.8 | -5.4 | 2.7 | 2 | C |
| 20 | 412 | 4.4 | 0 | C | 6.9 | 10 | 292 | 2.4 | -5.6 | 2.4 | 1 | C |
| 21 | | | | | | | | | | | | |
| 22 | 414 | 4.3 | 0 | C | 7.2 | 23 | 283 | 1.4 | -5.7 | 3.8 | 1 | C |
| 23 | 397 | 4.9 | 0 | C | 7.3 | 26 | 242 | -2.9 | -5.0 | 3.9 | 2 | C |
| 24 | 393 | 5.0 | 0 | C | 7.8 | 11 | 283 | 1.5 | -6.2 | 2.4 | 3 | C |

AUG. 22, 1980 235

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 6.5 | 0 | C | 8.3 | 4 | 287 | 2.2 | -7.1 | 1.8 | 3 | C |
| 2 | 390 | 9.9 | 0 | C | 8.8 | 19 | 297 | 3.6 | -6.2 | 4.1 | 2 | C |
| 3 | 411 | 12.0 | 0 | C | 8.6 | -13 | 246 | -2.9 | -6.8 | 0.1 | 4 | C |
| 4 | 420 | 13.5 | 0 | C | 8.2 | -31 | 234 | -4.1 | -6.6 | -2.4 | 0 | C |
| 5 | | | | | | | | | | | | |
| 6 | 384 | 12.8 | 0 | C | 6.7 | -9 | 267 | -0.3 | -6.3 | 1.6 | 1 | C |
| 7 | 372 | 12.5 | 0 | C | 5.7 | -31 | 9 | 3.1 | -0.4 | -2.0 | 4 | C |
| 8 | 371 | 12.4 | 0 | C | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 358 | 11.3 | 0 | C | 8.2 | -18 | 290 | 2.6 | -7.6 | 1.5 | 0 | C |
| 15 | 358 | 11.3 | 0 | C | 8.1 | -18 | 274 | 0.6 | -7.7 | 1.3 | 2 | C |
| 16 | 363 | 11.4 | 0 | C | 8.1 | -30 | 270 | -0.0 | -7.7 | -0.8 | 2 | C |
| 17 | 366 | 11.8 | 0 | C | 8.1 | -42 | 272 | 0.2 | -7.5 | -2.8 | 1 | C |
| 18 | 361 | 11.2 | 0 | C | 7.8 | -67 | 244 | -1.3 | -4.7 | -5.9 | 1 | C |
| 19 | 363 | 10.9 | 0 | C | 7.7 | -38 | 261 | -0.9 | -6.6 | -2.8 | 2 | C |
| 20 | 361 | 11.0 | 0 | C | 7.6 | -44 | 282 | 0.8 | -4.8 | -3.0 | 5 | C |
| 21 | 351 | 11.4 | 0 | C | 7.2 | -44 | 309 | 2.8 | -4.2 | -3.6 | 3 | C |
| 22 | 347 | 11.7 | 0 | C | 7.2 | -51 | 281 | 0.8 | -4.8 | -4.3 | 3 | C |
| 23 | 344 | 12.0 | 0 | C | 7.3 | -18 | 305 | 3.8 | -5.8 | -1.3 | 2 | C |
| 24 | 338 | 12.0 | 0 | C | 7.1 | -12 | 303 | 3.4 | -5.5 | -0.5 | 3 | C |

AUG. 23, 1980 236

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 343 | 11.0 | 0 | C | 7.4 | -4 | 293 | 2.3 | -5.4 | 0.6 | 4 | C |
| 2 | 349 | 5.2 | 0 | C | 7.8 | 43 | 314 | 3.9 | -2.8 | 6.0 | 1 | C |
| 3 | 355 | 6.7 | 0 | C | 6.6 | 37 | 316 | 3.8 | -2.5 | 4.7 | 1 | C |
| 4 | 356 | 6.9 | 0 | C | 6.3 | 10 | 304 | 3.4 | -4.5 | 2.5 | 1 | C |
| 5 | 356 | 8.3 | 0 | C | 5.0 | 19 | 281 | 0.7 | -3.3 | 2.7 | 3 | C |
| 6 | 354 | 9.4 | 0 | C | 4.7 | 36 | 264 | -0.2 | -1.4 | 2.4 | 3 | C |
| 7 | 354 | 9.6 | 0 | C | 4.8 | 21 | 246 | -1.4 | -2.2 | 2.5 | 3 | C |
| 8 | 354 | 9.6 | 0 | C | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 363 | 8.9 | 0 | C | 4.6 | 11 | 301 | 2.3 | -2.8 | 2.8 | 0 | C |
| 13 | 363 | 8.9 | 0 | C | 6.4 | 49 | 284 | 0.9 | -0.9 | 5.9 | 2 | C |
| 14 | 344 | 8.9 | 0 | C | 6.6 | 26 | 289 | 1.8 | -3.3 | 5.2 | 1 | C |
| 15 | 332 | 8.9 | 0 | C | 6.1 | 44 | 290 | 1.5 | -1.6 | 5.4 | 1 | C |
| 16 | 328 | 9.4 | 0 | C | 5.6 | 37 | 309 | 2.7 | -1.7 | 4.4 | 1 | C |
| 17 | 324 | 10.0 | 0 | C | 4.9 | 23 | 323 | 3.4 | -1.7 | 2.6 | 1 | C |
| 18 | 323 | 10.2 | 0 | C | 5.2 | 51 | 315 | 2.3 | -0.9 | 4.4 | 1 | C |
| 19 | 322 | 9.4 | 0 | C | 5.1 | 58 | 319 | 2.0 | -0.6 | 4.5 | 1 | C |
| 20 | 319 | 10.0 | 0 | C | 4.2 | 68 | 299 | 0.7 | -0.5 | 3.9 | 1 | C |
| 21 | 325 | 11.5 | 0 | C | 4.3 | 55 | 269 | -0.0 | -1.6 | 3.5 | 2 | C |
| 22 | 328 | 11.1 | 0 | C | 5.3 | 16 | 290 | 1.7 | -4.4 | 2.2 | 1 | C |
| 23 | 318 | 10.0 | 0 | C | 5.8 | 8 | 295 | 2.4 | -5.0 | 1.7 | 1 | C |
| 24 | 315 | 9.3 | 0 | C | 5.6 | -12 | 301 | 2.8 | -4.8 | -0.3 | 1 | C |

AUG. 24, 1980 237

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 310 | 9.9 | 0 | C | 5.2 | -23 | 315 | 3.3 | -3.5 | -1.3 | 1 | C |
| 2 | 314 | 9.7 | 0 | C | 5.6 | -28 | 306 | 2.8 | -4.4 | -1.6 | 1 | C |
| 3 | 314 | 9.4 | 0 | C | 6.0 | -13 | 287 | 1.7 | -5.4 | 0.1 | 2 | C |
| 4 | 321 | 8.5 | 0 | C | 5.9 | -27 | 316 | 2.6 | -2.9 | -1.0 | 4 | C |
| 5 | 322 | 8.0 | 0 | C | 5.5 | -37 | 22 | 2.7 | 0.3 | -2.4 | 4 | C |
| 6 | 337 | 8.7 | 0 | C | 4.7 | 21 | 131 | -2.9 | 3.7 | 0.2 | 1 | C |
| 7 | 329 | 9.1 | 0 | C | 5.3 | 38 | 167 | -4.0 | 2.3 | 2.5 | 0 | C |
| 8 | 325 | 9.2 | 0 | C | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 335 | 6.7 | 0 | C | | | | | | | | |
| 13 | 335 | 6.7 | 0 | C | 4.2 | 2 | 207 | -3.7 | -1.5 | 1.1 | 0 | C |
| 14 | 334 | 7.4 | 0 | C | 4.6 | 14 | 198 | -3.9 | -0.6 | 1.5 | 2 | C |
| 15 | 327 | 7.6 | 0 | C | 4.1 | 64 | 221 | -1.2 | 0.6 | 3.4 | 1 | C |
| 16 | 308 | 7.7 | 0 | C | 4.6 | 68 | 16 | 1.5 | 2.0 | 3.3 | 2 | C |
| 17 | 312 | 8.9 | 0 | C | 4.4 | 52 | 50 | 1.0 | 1.9 | 1.5 | 3 | C |
| 18 | 314 | 11.4 | 0 | C | 4.9 | 48 | 76 | 0.7 | 3.6 | 2.1 | 2 | C |
| 19 | 314 | 11.4 | 0 | C | 4.6 | 39 | 248 | -0.9 | -1.6 | 2.4 | 3 | C |
| 20 | 311 | 10.8 | 0 | C | 4.5 | 2 | 267 | -0.2 | -4.2 | 1.2 | 1 | C |
| 21 | 312 | 11.4 | 0 | C | 4.2 | 12 | 252 | -1.2 | -3.6 | 1.6 | 1 | C |
| 22 | 309 | 11.6 | 0 | C | 3.9 | 14 | 273 | 0.2 | -3.4 | 1.5 | 1 | C |
| 23 | 301 | 11.6 | 0 | C | 3.6 | 15 | 299 | 1.6 | -2.6 | 1.3 | 1 | C |
| 24 | 299 | 11.1 | 0 | C | 4.4 | 17 | 323 | 3.2 | -2.2 | 1.6 | 1 | C |

AUG. 25, 1980 238

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 299 | 10.4 | 0 | C | 4.7 | 26 | 356 | 4.0 | 0.1 | 2.0 | 1 | C |
| 2 | 298 | 9.9 | 0 | C | 5.4 | 5 | 351 | 5.3 | -0.7 | 0.7 | 1 | C |
| 3 | 297 | 10.4 | 0 | C | 4.6 | 9 | 17 | 4.3 | 1.4 | 0.4 | 1 | C |
| 4 | 301 | 7.8 | 24 | L | 3.8 | 21 | 5 | 3.0 | 0.6 | 1.0 | 2 | C |
| 5 | 302 | 12.0 | 18 | J | 4.6 | 20 | 346 | 4.0 | -0.4 | 1.8 | 1 | J |
| 6 | 297 | 11.5 | 22 | J | 4.7 | -2 | 348 | 4.2 | -0.9 | 0.2 | 2 | J |
| 7 | 297 | 11.5 | 22 | J | 4.2 | -8 | 343 | 3.7 | -1.3 | 0.0 | 1 | J |
| 8 | 297 | 11.0 | 22 | J | 3.7 | 6 | 342 | 2.9 | -0.7 | 0.7 | 2 | J |
| 9 | 295 | 11.7 | 23 | J | 3.6 | 12 | 331 | 2.7 | -1.0 | 1.3 | 2 | J |
| 10 | 294 | 11.2 | 22 | J | 3.9 | 31 | 312 | 2.1 | -1.0 | 2.8 | 2 | J |
| 11 | 298 | 11.3 | 21 | J | 4.5 | 21 | 321 | 3.0 | -1.2 | 2.5 | 1 | J |
| 12 | 307 | 16.4 | 21 | J | 5.0 | 28 | 300 | 2.1 | -1.8 | 3.8 | 2 | J |
| 13 | 305 | 14.1 | 22 | J | 5.9 | 12 | 287 | 1.6 | -3.8 | 3.7 | 2 | J |
| 14 | 309 | 13.7 | 19 | J | 6.3 | -1 | 290 | 2.0 | -4.9 | 2.7 | 2 | J |
| 15 | 297 | 14.7 | 0 | C | 6.5 | 50 | 262 | -0.6 | -1.3 | 6.0 | 2 | J |
| 16 | 322 | 14.2 | 0 | C | 6.2 | 53 | 240 | -1.7 | -0.8 | 5.5 | 2 | J |
| 17 | 336 | 18.1 | 29 | J | 7.2 | 50 | 221 | -3.3 | -0.7 | 5.9 | 2 | J |
| 18 | 339 | 19.9 | 37 | J | 9.0 | 22 | 275 | 0.7 | -6.4 | 5.5 | 3 | J |
| 19 | 341 | 17.4 | 42 | J | 10.4 | 15 | 292 | 3.6 | -8.0 | 5.0 | 2 | J |
| 20 | 337 | 17.4 | 32 | J | 11.2 | 13 | 293 | 4.2 | -9.1 | 4.6 | 2 | J |
| 21 | 330 | 17.2 | 28 | J | 12.2 | 6 | 293 | 4.7 | -10.6 | 3.4 | 2 | J |
| 22 | 317 | 18.1 | 35 | J | 13.1 | -7 | 295 | 5.4 | -11.7 | 0.5 | 2 | J |
| 23 | 313 | 18.2 | 36 | J | 14.3 | -24 | 301 | 6.6 | -11.8 | -3.8 | 2 | J |
| 24 | 319 | 16.6 | 30 | J | 14.5 | -38 | 293 | 4.5 | -11.9 | -7.0 | 1 | J |

AUG. 26, 1980 239

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 311 | 13.5 | 29 | J | 13.6 | -57 | 316 | 5.3 | -7.2 | -10.2 | 1 | J |
| 2 | 311 | 14.2 | 33 | J | 12.3 | -55 | 319 | 5.1 | -6.5 | -8.5 | 3 | J |
| 3 | 300 | 13.7 | 0 | C | 11.6 | -46 | 320 | 6.2 | -7.2 | -6.7 | 0 | J |
| 4 | 297 | 13.0 | 0 | C | 12.8 | -30 | 296 | 4.8 | -11.3 | -3.0 | 2 | J |
| 5 | 312 | 13.7 | 27 | J | 12.7 | -32 | 294 | 4.2 | -11.2 | -2.7 | 3 | C |
| 6 | 317 | 26.8 | 33 | J | 10.7 | -27 | 305 | 5.4 | -9.0 | -1.3 | 1 | C |
| 7 | 316 | 20.1 | 24 | J | | | | | | | | |
| 8 | 309 | 23.6 | 24 | J | | | | | | | | |
| 9 | 303 | 16.8 | 15 | J | 8.4 | -23 | 340 | 6.9 | -3.8 | -1.4 | 3 | J |
| 10 | 295 | 12.8 | 27 | J | 9.3 | -21 | 326 | 7.1 | -5.8 | -0.2 | 1 | J |
| 11 | 295 | 9.5 | 29 | J | 9.7 | -9 | 317 | 6.8 | -6.1 | 2.2 | 2 | J |
| 12 | 313 | 13.7 | 38 | J | 10.6 | 7 | 296 | 4.5 | -7.1 | 6.1 | 2 | J |
| 13 | 319 | 15.2 | 32 | J | 11.3 | -23 | 296 | 4.3 | -9.8 | 1.1 | 3 | J |
| 14 | 316 | 13.4 | 35 | J | 10.4 | -24 | 297 | 4.1 | -9.0 | 0.6 | 3 | J |
| 15 | 323 | 27.6 | 38 | J | 5.7 | -11 | 295 | 2.2 | -4.7 | 1.3 | 2 | J |
| 16 | 321 | 23.5 | 23 | J | 8.4 | 5 | 299 | 3.9 | -6.1 | 3.6 | 2 | J |
| 17 | 315 | 25.5 | 22 | J | 7.9 | 6 | 308 | 4.8 | -5.4 | 3.0 | 1 | J |
| 18 | 312 | 26.8 | 21 | J | 8.1 | 4 | 305 | 4.5 | -5.9 | 2.6 | 1 | J |
| 19 | 317 | 22.9 | 28 | J | 10.4 | 4 | 301 | 5.3 | -8.3 | 3.1 | 1 | J |
| 20 | 323 | 28.2 | 30 | J | 11.3 | 6 | 297 | 5.1 | -9.5 | 3.4 | 1 | J |
| 21 | 314 | 25.5 | 26 | J | 9.3 | -29 | 307 | 4.9 | -7.3 | -3.1 | 1 | J |
| 22 | 325 | 30.8 | 24 | J | 8.1 | -17 | 287 | 2.1 | -7.1 | -0.9 | 3 | J |
| 23 | 332 | 24.5 | 37 | J | 6.9 | 77 | 250 | -0.4 | -0.2 | 4.6 | 5 | J |
| 24 | 338 | 17.7 | 16 | J | 11.9 | 12 | 93 | -0.6 | 11.8 | 0.4 | 1 | J |

AUG. 27, 1980 240

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 329 | 13.7 | 15 | J | 12.6 | 6 | 94 | -0.9 | 12.4 | -1.1 | 1 | J |
| 2 | 312 | 12.0 | 0 | C | 11.9 | -23 | 90 | 0.0 | 9.6 | -6.9 | 2 | J |
| 3 | 309 | 12.6 | 0 | C | 10.9 | -12 | 90 | 0.0 | 9.0 | -4.6 | 4 | J |
| 4 | 318 | 13.5 | 0 | C | 8.5 | 31 | 139 | -5.1 | 5.5 | 2.5 | 3 | J |
| 5 | 336 | 11.2 | 33 | J | 9.1 | 4 | 128 | -5.4 | 6.7 | -1.9 | 2 | J |
| 6 | 374 | 18.0 | 68 | J | 9.2 | -24 | 101 | -1.5 | 5.5 | -6.2 | 5 | J |
| 7 | 382 | 21.5 | 78 | J | 7.6 | -15 | 105 | -1.2 | 3.4 | -3.1 | 6 | J |
| 8 | 390 | 18.8 | 59 | J | 11.3 | -23 | 98 | -1.4 | 6.9 | -8.9 | 1 | J |
| 9 | 364 | 16.8 | 77 | J | 10.6 | -9 | 116 | -4.1 | 6.4 | -5.6 | 5 | J |
| 10 | 368 | 12.9 | 58 | J | 10.7 | -51 | 95 | -0.5 | 1.1 | -9.8 | 5 | J |
| 11 | 367 | 12.7 | 57 | J | 11.7 | -50 | 90 | 0.0 | 1.4 | -11.4 | 2 | J |
| 12 | 353 | 12.0 | 59 | J | 11.2 | -15 | 108 | -3.1 | 6.6 | -7.5 | 4 | J |
| 13 | 358 | 13.4 | 80 | J | 10.1 | -5 | 90 | 0.0 | 7.8 | -5.9 | 2 | J |
| 14 | 358 | 13.3 | 86 | J | 9.6 | -33 | 111 | -2.9 | 3.8 | -8.2 | 0 | J |
| 15 | 352 | 13.1 | 75 | J | 8.7 | -45 | 108 | -1.7 | 2.0 | -7.1 | 4 | J |
| 16 | 333 | 15.8 | 0 | C | 9.0 | 79 | 110 | -0.2 | 1.4 | 2.0 | 10 | J |
| 17 | 326 | 13.6 | 0 | C | 8.5 | 9 | 105 | -1.9 | 7.3 | -1.7 | 2 | C |
| 18 | 343 | 8.9 | 30 | J | 8.4 | -3 | 115 | -3.4 | 6.7 | -2.7 | 2 | C |
| 19 | 357 | 10.3 | 41 | J | 7.3 | 0 | 113 | -1.5 | 6.4 | -1.8 | 3 | J |
| 20 | 375 | 12.3 | 32 | J | 4.6 | -2 | 134 | -3.1 | 3.0 | -0.9 | 2 | J |
| 21 | 379 | 13.5 | 26 | J | 4.1 | 9 | 157 | -3.7 | 1.7 | 0.3 | 1 | J |
| 22 | 359 | 13.7 | 0 | C | 3.3 | 15 | 155 | -2.7 | 1.4 | 0.6 | 1 | J |
| 23 | 369 | 15.0 | 20 | J | 3.2 | 9 | 132 | -2.1 | 2.4 | 0.1 | 0 | J |
| 24 | 372 | 16.3 | 20 | J | 3.0 | 21 | 94 | -0.2 | 2.5 | 0.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 356 | 15.1 | 0 | C | 3.3 | 16 | 122 | -1.6 | 2.7 | 0.4 | 1 | C |
| 2 | 349 | 13.7 | 0 | C | 3.6 | -10 | 139 | -2.3 | 1.8 | -1.0 | 2 | C |
| 3 | 357 | 14.3 | 0 | C | 2.6 | 9 | 137 | -1.0 | 1.0 | -0.0 | 2 | C |
| 4 | 354 | 13.8 | 0 | C | 2.4 | 5 | 158 | -2.0 | 0.8 | -0.1 | 1 | C |
| 5 | 362 | 10.2 | 26 | J | 3.7 | 7 | 62 | 1.6 | 2.9 | -0.7 | 2 | J |
| 6 | 356 | 9.7 | 24 | J | 4.6 | 17 | 93 | -0.2 | 4.3 | -0.5 | 2 | J |
| 7 | 346 | 9.0 | 26 | J | 4.8 | 16 | 125 | -2.6 | 3.9 | -0.5 | 1 | J |
| 8 | 341 | 9.5 | 31 | J | 4.8 | 16 | 131 | -3.0 | 3.6 | -0.5 | 1 | J |
| 9 | 345 | 10.2 | 27 | J | 4.8 | 23 | 125 | -2.5 | 4.0 | -0.3 | 1 | J |
| 10 | 345 | 10.8 | 23 | J | 4.9 | 21 | 123 | -1.6 | 2.7 | -0.4 | 4 | J |
| 11 | 331 | 11.1 | 0 | C | 4.7 | 13 | 344 | 4.2 | -0.5 | 1.5 | 1 | J |
| 12 | 344 | 13.0 | 20 | J | 3.6 | 5 | 329 | 3.0 | -1.3 | 1.2 | 1 | J |
| 13 | 345 | 12.1 | 20 | J | 3.8 | 5 | 319 | 2.8 | -1.9 | 1.6 | 1 | J |
| 14 | 344 | 12.4 | 19 | J | 3.9 | -15 | 312 | 2.5 | -2.9 | 0.5 | 1 | J |
| 15 | 330 | 13.5 | 0 | C | 3.7 | -32 | 316 | 2.2 | -2.8 | -0.7 | 1 | J |
| 16 | 336 | 13.5 | 14 | J | 3.2 | -82 | 18 | 0.3 | -0.9 | -2.2 | 2 | J |
| 17 | 324 | 9.8 | 16 | J | 3.7 | -56 | 331 | 1.1 | -1.3 | -1.5 | 3 | C |
| 18 | 314 | 11.3 | 0 | C | 4.9 | 10 | 338 | 4.5 | -1.4 | 1.4 | 0 | J |
| 19 | 314 | 9.8 | 0 | C | 4.7 | 14 | 343 | 4.3 | -1.0 | 1.4 | 1 | J |
| 20 | 307 | 8.7 | 0 | C | 4.5 | 10 | 351 | 4.3 | -0.5 | 0.9 | 1 | J |
| 21 | 310 | 8.3 | 16 | J | 4.3 | 15 | 352 | 3.7 | -0.3 | 1.1 | 2 | J |
| 22 | 307 | 8.1 | 16 | J | 4.4 | 22 | 357 | 4.0 | 0.1 | 1.6 | 1 | J |
| 23 | 304 | 8.2 | 15 | J | 4.3 | 18 | 7 | 3.9 | 0.7 | 1.2 | 1 | J |
| 24 | 306 | 7.7 | 17 | J | 4.4 | 22 | 355 | 3.8 | -0.1 | 1.6 | 1 | J |

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AUG. 29, 1980 242

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 309 | 7.0 | 25 | J | 4.8 | 26 | 359 | 4.0 | 0.3 | 1.9 | 1 | J |
| 2 | 314 | 7.7 | 35 | J | 4.6 | 27 | 333 | 3.5 | -1.3 | 2.4 | 1 | J |
| 3 | 310 | 8.6 | 63 | J | 4.6 | 30 | 346 | 3.9 | -0.3 | 2.5 | 0 | J |
| 4 | 311 | 8.4 | 0 | C | 4.9 | 13 | 334 | 3.7 | -1.4 | 1.5 | 2 | J |
| 5 | 316 | 8.3 | 22 | J | 4.9 | 12 | 320 | 3.6 | -2.5 | 2.0 | 1 | J |
| 6 | 317 | 8.8 | 22 | J | 5.1 | 31 | 318 | 3.2 | -1.6 | 3.5 | 1 | J |
| 7 | 307 | 8.5 | 17 | J | 5.4 | 29 | 0 | 4.6 | 1.2 | 2.3 | 1 | J |
| 8 | 309 | 7.8 | 18 | J | 5.4 | 38 | 14 | 4.1 | 2.5 | 2.3 | 1 | J |
| 9 | 302 | 9.6 | 0 | C | 5.3 | 47 | 60 | 1.8 | 4.6 | 1.6 | 1 | J |
| 10 | 310 | 10.8 | 0 | C | 5.0 | 47 | 53 | 2.1 | 4.3 | 1.6 | 1 | J |
| 11 | 322 | 10.3 | 20 | J | 5.1 | 59 | 42 | 1.9 | 3.8 | 2.6 | 1 | J |
| 12 | 308 | 11.9 | 0 | C | 5.1 | 61 | 34 | 2.0 | 3.5 | 2.9 | 1 | J |
| 13 | 304 | 11.7 | 0 | C | 4.9 | 45 | 3 | 3.4 | 2.0 | 2.8 | 1 | J |
| 14 | 304 | 11.7 | 0 | C | 4.8 | 41 | 360 | 3.6 | 1.6 | 2.7 | 1 | J |
| 15 | 300 | 11.3 | 0 | C | 5.3 | 16 | 345 | 4.9 | -0.5 | 1.9 | 0 | J |
| 16 | 314 | 11.8 | 21 | J | 5.4 | 27 | 330 | 3.5 | -1.0 | 2.8 | 3 | J |
| 17 | 318 | 12.2 | 27 | J | 5.6 | 43 | 349 | 3.6 | 0.6 | 3.4 | 2 | J |
| 18 | 307 | 13.3 | 0 | C | 5.8 | 54 | 14 | 3.3 | 2.3 | 4.1 | 1 | C |
| 19 | 336 | 21.9 | 22 | J | 5.7 | 6 | 344 | 4.3 | -1.0 | 0.8 | 3 | C |
| 20 | 343 | 25.9 | 46 | J | 5.7 | -20 | 328 | 3.5 | -2.5 | -0.9 | 3 | C |
| 21 | 342 | 13.8 | 36 | J | 6.5 | -40 | 293 | 1.8 | -5.0 | -3.0 | 2 | C |
| 22 | 342 | 10.5 | 41 | J | 7.0 | -3 | 315 | 4.8 | -4.8 | 0.5 | 2 | J |
| 23 | 342 | 10.1 | 36 | J | 7.3 | -24 | 310 | 4.0 | -5.3 | -1.9 | 3 | J |
| 24 | 373 | 11.4 | 46 | J | 7.2 | 68 | 109 | -0.7 | 3.1 | 5.1 | 4 | J |

AUG. 31, 1980 244

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 361 | 6.8 | 20 | J | 5.7 | -70 | 272 | 0.1 | -2.9 | -4.7 | 2 | J |
| 2 | 357 | 8.0 | 20 | J | 5.5 | -57 | 253 | -0.8 | -3.6 | -3.5 | 2 | J |
| 3 | 353 | 6.7 | 21 | J | 5.6 | -71 | 319 | 1.1 | -2.1 | -3.9 | 3 | J |
| 4 | 341 | 8.1 | 0 | C | 4.9 | -48 | 292 | 0.8 | -2.6 | -1.6 | 3 | J |
| 5 | 343 | 7.6 | 0 | C | 6.6 | -21 | 299 | 2.9 | -5.7 | -0.2 | 2 | C |
| 6 | 343 | 7.8 | 0 | C | 6.2 | -36 | 287 | 1.4 | -5.8 | -1.3 | 1 | J |
| 7 | 346 | 6.9 | 30 | J | 6.5 | -14 | 303 | 2.9 | -4.6 | 0.9 | 4 | J |
| 8 | 348 | 7.5 | 47 | J | 6.2 | -46 | 318 | 3.0 | -4.5 | -2.3 | 2 | J |
| 9 | 339 | 8.1 | 0 | C | 6.4 | -30 | 303 | 2.8 | -5.2 | -0.3 | 3 | J |
| 10 | 356 | 6.5 | 15 | J | 6.2 | 4 | 265 | -0.5 | -4.9 | 3.7 | 1 | J |
| 11 | 336 | 7.3 | 18 | J | 5.8 | -6 | 294 | 2.1 | -4.2 | 2.2 | 2 | J |
| 12 | 338 | 8.1 | 19 | J | 5.6 | -5 | 301 | 2.8 | -4.1 | 2.1 | 2 | J |
| 13 | 335 | 8.8 | 14 | J | 5.5 | -5 | 309 | 3.2 | -3.6 | 1.7 | 2 | J |
| 14 | 331 | 8.7 | 0 | C | 6.0 | -7 | 311 | 3.8 | -4.2 | 1.6 | 1 | C |
| 15 | 336 | 8.6 | 17 | J | 5.4 | 11 | 299 | 2.5 | -3.5 | 3.1 | 1 | J |
| 16 | 333 | 7.9 | 18 | J | 5.4 | 9 | 305 | 3.0 | -3.5 | 2.6 | 1 | J |
| 17 | 333 | 7.5 | 17 | J | 6.0 | 7 | 307 | 3.5 | -4.0 | 2.5 | 1 | J |
| 18 | 328 | 7.4 | 29 | J | 5.8 | -13 | 322 | 4.1 | -3.4 | -0.1 | 2 | J |
| 19 | 327 | 7.8 | 40 | J | 6.1 | -2 | 315 | 4.2 | -4.1 | 1.0 | 2 | J |
| 20 | 331 | 8.5 | 32 | J | 6.3 | -9 | 323 | 4.7 | -3.7 | -0.0 | 2 | J |
| 21 | 345 | 9.6 | 28 | J | 6.3 | 9 | 294 | 2.4 | -5.2 | 2.1 | 2 | J |
| 22 | 347 | 12.4 | 25 | J | 5.2 | 10 | 297 | 2.1 | -4.0 | 1.6 | 2 | J |
| 23 | 338 | 15.1 | 16 | J | 5.0 | -6 | 314 | 3.4 | -3.5 | 0.1 | 2 | J |
| 24 | 346 | 17.9 | 27 | J | 2.8 | 3 | 303 | 1.2 | -1.8 | 0.5 | 2 | J |

SEP. 2, 1980 246

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 308 | 25.0 | 14 | J | 5.1 | 39 | 166 | -3.8 | 1.6 | 2.9 | 1 | J |
| 2 | 306 | 22.7 | 13 | J | 5.2 | -16 | 325 | 1.9 | -1.4 | -0.3 | 5 | J |
| 3 | 312 | 13.0 | 25 | J | 6.8 | -29 | 342 | 5.5 | -2.6 | -2.6 | 2 | J |
| 4 | 299 | 13.9 | 41 | J | 6.6 | -3 | 314 | 4.4 | -4.4 | 1.2 | 2 | C |
| 5 | 308 | 14.4 | 30 | J | 4.7 | -3 | 331 | 4.0 | -2.1 | 0.6 | 1 | C |
| 6 | 310 | 15.1 | 30 | J | 3.2 | 6 | 312 | 1.9 | -1.8 | 1.2 | 1 | C |
| 7 | 303 | 15.5 | 0 | C | 2.9 | 53 | 167 | -1.1 | 0.9 | 1.2 | 2 | C |
| 8 | 297 | 14.7 | 0 | C | 4.9 | -7 | 282 | 1.0 | -4.3 | 1.8 | 1 | C |
| 9 | 307 | 20.4 | 19 | J | 4.5 | -3 | 284 | 1.1 | -3.7 | 2.0 | 1 | C |
| 10 | 299 | 16.0 | 14 | J | 5.0 | 27 | 264 | -0.4 | -2.4 | 4.1 | 1 | C |
| 11 | 298 | 13.6 | 30 | J | | | | | | | | |
| 12 | 265 | 7.5 | 102 | L | 4.2 | 40 | 155 | -2.9 | 2.6 | 1.5 | 0 | C |
| 13 | 252 | 11.6 | 45 | J | 5.4 | -16 | 316 | 2.3 | -2.3 | 0.4 | 4 | C |
| 14 | 316 | 9.0 | 0 | C | 6.6 | 2 | 309 | 4.1 | -4.2 | 2.8 | 1 | C |
| 15 | 332 | 7.3 | 0 | C | 6.5 | 5 | 312 | 4.3 | -3.9 | 2.8 | 0 | C |
| 16 | 332 | 7.3 | 0 | C | 6.2 | 3 | 315 | 4.3 | -3.8 | 2.2 | 1 | C |
| 17 | 336 | 7.8 | 0 | C | 6.1 | 7 | 318 | 4.5 | -3.5 | 2.3 | 1 | C |
| 18 | 344 | 7.3 | 0 | C | 6.4 | 9 | 329 | 5.3 | -2.7 | 2.0 | 1 | C |
| 19 | 342 | 7.1 | 0 | C | 6.5 | 0 | 329 | 5.6 | -3.2 | 1.0 | 1 | C |
| 20 | 327 | 7.2 | 0 | C | 6.9 | -1 | 329 | 5.9 | -3.4 | 0.7 | 1 | C |
| 21 | 328 | 6.7 | 0 | C | 6.7 | -2 | 327 | 5.5 | -3.6 | 0.5 | 1 | C |
| 22 | | | | | | | | | | | | |
| 23 | 355 | 6.8 | 0 | C | 7.1 | 4 | 327 | 5.9 | -3.6 | 1.2 | 1 | C |
| 24 | 337 | 6.3 | 0 | C | 7.0 | 13 | 320 | 5.0 | -3.8 | 2.4 | 2 | C |

SEP. 4, 1980 248

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 312 | 18.6 | 0 | C | 9.0 | -47 | 334 | 5.4 | -3.9 | -5.8 | 1 | C |
| 2 | 318 | 14.9 | 0 | C | 9.3 | -39 | 321 | 5.5 | -5.8 | -4.5 | 1 | C |
| 3 | 321 | 12.4 | 0 | C | 9.7 | -32 | 326 | 6.7 | -5.8 | -3.6 | 2 | C |
| 4 | 323 | 13.1 | 0 | C | 9.1 | -36 | 322 | 5.8 | -5.9 | -3.6 | 1 | C |
| 5 | 315 | 12.2 | 0 | C | 9.9 | -33 | 316 | 5.9 | -7.3 | -2.9 | 1 | C |
| 6 | 314 | 14.5 | 0 | C | 9.4 | -37 | 314 | 5.1 | -7.1 | -2.7 | 2 | C |
| 7 | 311 | 12.8 | 0 | C | 9.4 | -34 | 312 | 5.2 | -7.6 | -1.9 | 0 | C |
| 8 | 323 | 15.6 | 0 | C | 8.0 | -35 | 303 | 3.5 | -6.9 | -1.2 | 1 | C |
| 9 | 324 | 17.1 | 0 | C | 7.4 | -29 | 302 | 3.3 | -6.3 | -0.2 | 2 | C |
| 10 | 321 | 17.2 | 0 | C | 7.1 | -14 | 295 | 2.8 | -6.0 | 1.9 | 1 | C |
| 11 | 327 | 15.4 | 0 | C | 7.6 | -19 | 306 | 4.2 | -6.1 | 1.1 | 1 | C |
| 12 | 334 | 18.9 | 0 | C | 5.4 | -20 | 314 | 3.2 | -3.7 | 0.4 | 2 | C |
| 13 | 331 | 18.1 | 0 | C | 5.9 | -29 | 318 | 3.6 | -4.1 | -0.5 | 2 | C |
| 14 | 323 | 13.3 | 0 | C | 7.7 | 4 | 302 | 4.0 | -5.2 | 3.8 | 1 | C |
| 15 | 316 | 11.1 | 0 | C | 8.5 | -3 | 322 | 6.3 | -4.6 | 2.0 | 3 | C |
| 16 | 313 | 11.2 | 0 | C | 8.3 | -9 | 347 | 7.6 | -2.1 | -0.3 | 2 | C |
| 17 | 315 | 12.0 | 0 | C | 7.6 | -20 | 284 | 1.3 | -5.7 | 0.3 | 5 | C |
| 18 | 314 | 10.5 | 0 | C | 8.0 | -35 | 310 | 3.9 | -5.9 | -2.4 | 2 | C |
| 19 | 323 | 11.0 | 0 | C | 7.6 | -14 | 288 | 2.1 | -6.5 | 0.2 | 3 | C |
| 20 | 315 | 10.5 | 0 | C | 8.0 | -28 | 303 | 3.7 | -6.4 | -2.1 | 2 | C |
| 21 | 316 | 9.8 | 0 | C | 8.2 | -29 | 316 | 5.1 | -5.6 | -2.8 | 1 | C |
| 22 | 308 | 9.6 | 0 | C | 8.4 | -32 | 328 | 5.9 | -4.5 | -3.6 | 1 | C |
| 23 | 307 | 9.3 | 0 | C | 8.3 | -39 | 345 | 6.2 | -2.6 | -4.7 | 1 | C |
| 24 | 312 | 13.4 | 0 | C | 7.1 | -34 | 303 | 3.0 | -5.2 | -2.7 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 373 | 12.4 | 37 | J | 6.7 | 57 | 310 | 1.9 | -1.3 | 4.9 | 4 | J |
| 359 | 9.6 | 0 | C | 8.1 | -3 | 289 | 2.6 | -7.4 | 1.4 | 1 | J |
| 354 | 10.9 | 47 | J | 8.1 | -28 | 272 | 0.2 | -7.4 | -1.6 | 3 | J |
| 349 | 10.6 | 74 | J | 7.5 | -53 | 254 | -1.2 | -5.7 | -4.1 | 2 | J |
| 354 | 9.8 | 72 | J | 7.2 | -8 | 291 | 2.3 | -5.8 | 1.3 | 4 | J |
| 360 | 10.8 | 81 | J | 6.0 | -9 | 282 | 1.1 | -4.9 | 1.3 | 3 | J |
| 364 | 10.3 | 70 | J | 5.7 | -20 | 285 | 1.3 | -5.2 | 0.6 | 2 | J |
| 347 | 12.6 | 0 | C | 6.1 | -54 | 284 | 0.9 | -5.5 | -2.6 | 1 | J |
| 357 | 10.1 | 53 | J | 5.3 | -41 | 309 | 2.3 | -4.0 | -1.2 | 2 | J |
| 360 | 9.8 | 44 | J | 5.6 | -23 | 284 | 1.2 | -5.0 | 0.8 | 2 | J |
| 367 | 8.6 | 30 | J | 5.9 | -10 | 273 | 0.3 | -5.3 | 2.3 | 1 | J |
| 354 | 9.6 | 0 | C | 5.7 | -12 | 278 | 0.8 | -5.2 | 2.0 | 1 | J |
| | | | | 5.0 | -2 | 298 | 2.0 | -3.3 | 1.9 | 3 | J |
| 347 | 8.6 | 0 | C | 5.2 | 3 | 322 | 3.9 | -2.5 | 1.8 | 1 | J |
| 347 | 8.6 | 0 | C | 5.1 | -19 | 326 | 3.9 | -3.1 | -0.2 | 1 | J |
| 356 | 9.1 | 40 | J | 5.0 | -53 | 321 | 2.2 | -3.3 | -2.7 | 1 | J |
| 359 | 8.2 | 32 | J | 5.5 | -70 | 336 | 1.6 | -2.5 | -4.2 | 2 | J |
| 348 | 8.2 | 39 | J | 5.7 | -47 | 325 | 3.1 | -3.4 | -3.1 | 1 | J |
| 349 | 8.3 | 45 | J | 5.7 | -28 | 315 | 3.3 | -3.9 | -1.5 | 2 | J |
| 354 | 7.4 | 53 | J | 5.8 | -12 | 316 | 3.7 | -3.8 | -0.2 | 2 | J |
| 358 | 7.6 | 50 | J | 5.8 | 34 | 318 | 3.3 | -2.3 | 3.5 | 2 | J |
| 353 | 6.9 | 59 | J | 5.9 | 10 | 314 | 3.8 | -3.7 | 1.7 | 2 | J |
| 348 | 6.6 | 43 | J | 5.9 | 2 | 311 | 3.7 | -4.1 | 1.0 | 2 | J |
| 347 | 6.7 | 23 | J | 6.0 | -37 | 307 | 2.6 | -4.1 | -2.6 | 2 | J |

SEP. 1, 1980 245

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 349 | 19.7 | 0 | C | | | | | | | | |
| 348 | 16.1 | 0 | C | 5.5 | -43 | 112 | -1.1 | 2.0 | -3.4 | 4 | C |
| 357 | 18.4 | 0 | C | 4.3 | 66 | 135 | -0.5 | 0.9 | 1.3 | 4 | C |
| | | | | 3.3 | 39 | 221 | -1.3 | -0.6 | 1.7 | 2 | J |
| 340 | 15.2 | 0 | C | 5.3 | -53 | 305 | 1.8 | -3.9 | -2.9 | 1 | J |
| 347 | 17.3 | 48 | J | 3.7 | -63 | 339 | 1.4 | -1.8 | -2.5 | 2 | J |
| 340 | 16.0 | 39 | J | 2.7 | -21 | 265 | -0.1 | -1.0 | 0.1 | 2 | J |
| 334 | 14.5 | 28 | J | 2.9 | 19 | 294 | 1.0 | -1.5 | 1.8 | 1 | J |
| 333 | 13.6 | 0 | C | 2.1 | 87 | 21 | 0.1 | 0.9 | 1.4 | 2 | J |
| 328 | 13.3 | 0 | C | 1.7 | 34 | 321 | 1.0 | -0.2 | 1.2 | 1 | J |
| 330 | 12.6 | 33 | J | 1.7 | 16 | 286 | 0.3 | -0.7 | 0.9 | 1 | J |
| 327 | 12.9 | 33 | J | 1.8 | 20 | 260 | -0.3 | -1.0 | 1.4 | 1 | J |
| 325 | 12.5 | 39 | J | 2.1 | 16 | 291 | 0.4 | -0.8 | 0.9 | 2 | J |
| 324 | 14.8 | 22 | J | 3.0 | -43 | 293 | 0.7 | -2.1 | -0.6 | 2 | J |
| 319 | 18.2 | 13 | J | 1.4 | -30 | 310 | 0.6 | -0.8 | -0.1 | 1 | J |
| 319 | 17.7 | 0 | C | 2.9 | 2 | 285 | 0.7 | -2.3 | 1.2 | 1 | C |
| 315 | 18.4 | 0 | C | 3.4 | -3 | 264 | -0.4 | -3.2 | 1.1 | 0 | J |
| 312 | 20.5 | 12 | J | 3.7 | 3 | 258 | -0.8 | -3.3 | 1.4 | 1 | J |
| 311 | 19.2 | 12 | J | 4.6 | 45 | 257 | -0.7 | -2.1 | 3.9 | 1 | J |
| 310 | 18.9 | 13 | J | 4.3 | 52 | 252 | -0.8 | -1.5 | 3.7 | 1 | J |
| 311 | 21.3 | 13 | J | 3.6 | 83 | 225 | -0.2 | 0.3 | 2.1 | 3 | J |
| 309 | 24.5 | 15 | J | 2.8 | 34 | 248 | -0.6 | -1.2 | 1.3 | 2 | J |
| 310 | 22.2 | 17 | J | 4.8 | 43 | 226 | -2.2 | -1.7 | 3.3 | 2 | J |
| 315 | 21.2 | 17 | J | 5.4 | 46 | 196 | -3.5 | -0.3 | 3.9 | 1 | J |

SEP. 3, 1980 247

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 342 | 6.5 | 0 | C | 7.1 | -8 | 314 | 4.9 | -5.2 | 0.1 | 0 | C |
| 332 | 8.1 | 0 | C | 6.8 | -4 | 311 | 4.4 | -5.0 | 0.8 | 1 | C |
| 318 | 9.8 | 0 | C | 6.0 | 1 | 308 | 3.5 | -4.3 | 1.3 | 2 | C |
| 316 | 10.0 | 0 | C | 6.6 | -2 | 302 | 3.4 | -5.3 | 1.6 | 1 | C |
| 320 | 9.6 | 0 | C | 7.0 | 3 | 288 | 2.1 | -5.9 | 2.8 | 1 | C |
| 320 | 9.5 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| 299 | 18.1 | 0 | C | 8.9 | 0 | 276 | 1.0 | -7.6 | 4.5 | 0 | C |
| 299 | 18.1 | 0 | C | 8.4 | 25 | 279 | 0.9 | -3.2 | 5.0 | 6 | C |
| 306 | 17.0 | 0 | C | 7.9 | 13 | 294 | 2.6 | -4.0 | 4.4 | 4 | C |
| 321 | 16.4 | 0 | C | 8.8 | 25 | 5 | 7.6 | 2.5 | 2.6 | 2 | C |
| 321 | 21.4 | 0 | C | 9.3 | -6 | 297 | 2.5 | -4.5 | 2.2 | 7 | C |
| 325 | 22.1 | 0 | C | 9.9 | -6 | 292 | 3.6 | -7.8 | 3.9 | 2 | C |
| | | | | | | | | | | | |
| 347 | 25.4 | 0 | C | 10.1 | -14 | 80 | 1.6 | 6.7 | -6.2 | 4 | C |
| 341 | 22.8 | 0 | C | 9.9 | -38 | 62 | 3.0 | 2.8 | -6.9 | 5 | C |
| 337 | 22.0 | 0 | C | 12.1 | -63 | 350 | 5.2 | -4.9 | -9.1 | 3 | C |
| 332 | 16.6 | 0 | C | 10.5 | -52 | 358 | 6.1 | -2.9 | -7.3 | 3 | C |
| 328 | 19.1 | 0 | C | 7.9 | -31 | 294 | 2.6 | -6.7 | -2.0 | 3 | C |
| 331 | 23.2 | 0 | C | 8.0 | -18 | 262 | -0.9 | -6.8 | -0.5 | 4 | C |
| 324 | 23.2 | 0 | C | 8.4 | -48 | 303 | 3.0 | -5.8 | -4.9 | 2 | C |
| 325 | 21.6 | 0 | C | 7.1 | -49 | 319 | 3.4 | -3.9 | -4.5 | 1 | C |
| 327 | 20.5 | 0 | C | 8.3 | -52 | 9 | 4.7 | -0.4 | -6.2 | 3 | C |
| 331 | 20.5 | 0 | C | 5.2 | -52 | 321 | 2.5 | -2.8 | -3.6 | 0 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 307 | 13.9 | 0 | C | 6.9 | -44 | 330 | 4.1 | -3.3 | -4.1 | 1 | C |
| 302 | 11.8 | 0 | C | 7.3 | -52 | 342 | 4.2 | -2.8 | -5.1 | 1 | C |
| 304 | 10.4 | 0 | C | 7.4 | -51 | 9 | 4.6 | -0.9 | -5.6 | 1 | C |
| 305 | 9.1 | 0 | C | 7.3 | -59 | 35 | 3.1 | -0.1 | -6.5 | 1 | C |
| 307 | 8.5 | 0 | C | 7.1 | -58 | 36 | 3.1 | -0.2 | -6.4 | 1 | C |
| 311 | 8.9 | 0 | C | 6.6 | -55 | 49 | 2.5 | 0.3 | -6.1 | 1 | C |
| 307 | 10.7 | 0 | C | 6.0 | -52 | 3 | 3.7 | -2.0 | -4.3 | 0 | C |
| 305 | 12.3 | 0 | C | 6.5 | -46 | 355 | 4.4 | -2.6 | -3.7 | 2 | C |
| 302 | 12.7 | 0 | C | 6.4 | -27 | 336 | 5.1 | -3.5 | -1.2 | 1 | C |
| 300 | 13.2 | 0 | C | 5.8 | -37 | 8 | 3.8 | -1.2 | -2.7 | 3 | C |
| 299 | 13.5 | 0 | C | 5.2 | -38 | 26 | 3.6 | -0.4 | -3.6 | 1 | C |
| 306 | 12.5 | 0 | C | 5.3 | -44 | 31 | 3.2 | -0.4 | -4.1 | 0 | C |
| 307 | 12.3 | 0 | C | | | | | | | | |
| 305 | 12.5 | 0 | C | 6.1 | -31 | 7 | 5.2 | -1.1 | -3.0 | 0 | C |
| 305 | 12.5 | 0 | C | 6.4 | -36 | 63 | 2.2 | 2.1 | -5.2 | 2 | C |
| 314 | 13.0 | 0 | C | 7.6 | -53 | 76 | 1.1 | 1.3 | -7.4 | 1 | C |
| 313 | 13.2 | 0 | C | 7.9 | -58 | 13 | 4.0 | -1.7 | -6.3 | 2 | C |
| 307 | 12.9 | 0 | C | 7.8 | -52 | 360 | 4.6 | -2.0 | -5.6 | 2 | C |
| 302 | 12.9 | 0 | C | 8.0 | -46 | 3 | 5.5 | -1.4 | -5.5 | 1 | C |
| 306 | 14.0 | 0 | C | 8.0 | -51 | 29 | 4.3 | 0.8 | -6.5 | 1 | C |
| 313 | 16.1 | 0 | C | 8.8 | -49 | 317 | 4.1 | -5.1 | -5.5 | 1 | C |
| 306 | 16.1 | 0 | C | 9.0 | -28 | 317 | 5.2 | -5.5 | -2.7 | 4 | C |
| 315 | 16.9 | 0 | C | 9.7 | 4 | 309 | 5.2 | -6.2 | 1.8 | 4 | C |
| 312 | 17.2 | 0 | C | 11.0 | 2 | 313 | 7.2 | -7.6 | 1.9 | 2 | C |

# 09/06/80 – 09/13/80

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HR      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                      SC

                         SEP. 6, 1980                          250
 1      309 18.8    0  C  11.0 -20 340   9.0  -3.9  -2.7  3  C
 2      299 19.8    0  C  11.5  17 343  10.3  -2.3   4.0  2  C
 3      299 18.9    0  C  10.5  32 343   8.3  -0.9   5.9  2  C
 4      311 21.8    0  C   9.7  41 317   4.1  -2.0   5.9  6  C
 5      303 22.6    0  C   9.5  47 328   5.0  -0.5   7.2  3  C
 6      353 23.4    0  C   9.8  -5 253  -2.6  -8.2   3.0  4  C
 7      357 19.7    0  C  10.4  15 258  -1.9  -6.9   6.5  4  C
 8      335  7.3    0  C  12.3  35 278   1.4  -5.1  11.0  1  C
 9      356 10.0    0  C  12.2  64 334   4.5   3.6   9.8  4  C
10
11      344  7.8    0  C  12.8  61 331   5.4   3.9  11.0  0  C
12      348 14.3    0  C  12.3  69 325   3.6   4.3  10.9  0  C
13
14      348 14.3    0  C   6.9  56 267  -0.1  -0.2   4.5  6  C
15      332 23.2    0  C   8.4 -67 160  -2.8  -2.5  -6.7  4  C
16      328 18.2    0  C   6.2 -60 229  -1.4  -3.1  -2.6  5  C
17      331 19.4    0  C   7.7  63 263  -0.3  -0.3   5.3  6  C
18      330 21.2    0  C  10.5  68 257  -0.9  -0.3  10.0  3  C
19      323 12.0    0  C  11.2  83 137  -0.9   4.0  10.1  2  C
20      310  7.1    0  C  11.0  50  85   0.7   8.8   6.2  1  C
21      317  6.9    0  C  10.3  53  80   1.0   7.0   6.1  4  C
22      321  7.2    0  C   9.8 -12 102  -1.9   8.5  -3.7  2  C
23      332 12.4    0  C  10.5 -45 100  -1.2   5.5  -8.2  3  C
24      320  7.9    0  C  10.3 -24  92  -0.4   8.1  -5.8  3  C

        VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                      SC

                         SEP. 7, 1980                          251
        317  6.7    0  C   9.7   9  84   1.0   9.4  -0.6  2  C
        317 10.3    0  C   8.7  41  83   0.8   7.2   3.7  3  C
        318 11.7    0  C   8.1  23 106  -1.9   7.1   0.9  3  C
        319  7.0    0  C   8.3  19 106  -1.9   7.3  -0.0  3  C
        320  6.5    0  C   8.9  39 105  -1.8   8.3   2.7  1  C
        308  5.5    0  C   9.3  24 115  -3.5   8.4   0.2  2  C
        313  5.6    0  C   9.1  24 116  -3.6   8.2  -0.2  1  C
        323  4.0    0  C   9.3  22 116  -3.8   8.5  -0.9  0  C
        310  4.7    0  C   9.2  19 117  -3.9   8.1  -1.6  0  C
        334  8.8   15  J   9.0  17 113  -3.4   8.0  -2.2  1  C
        312  5.1    0  C   9.0  19 112  -3.1   8.1  -2.1  0  C
        335  7.1   20  J   8.7  26 118  -3.6   7.8  -0.7  0  C
        330  7.4   39  J   8.6  29 116  -3.3   7.9  -0.2  1  C
        346  7.9   22  J   8.0  26 126  -4.0   6.5  -0.0  2  J
        342  7.1   24  J   8.2  26 126  -4.2   6.8   0.2  1  J
        350  8.4   39  J   7.4   9 139  -5.2   4.6  -1.0  2  J
        350  7.9   46  J   6.7 -19 142  -4.6   2.5  -3.3  2  J
        352  7.1    0  C   6.6 -51 121  -2.0   1.5  -5.8  1  C
        361  5.8   36  J   6.9 -45 124  -2.6   2.4  -5.7  2  J
        359  7.1   25  J   6.5 -42 110  -1.6   3.1  -5.1  2  J
        345  9.4    0  C   6.9 -43 111  -1.7   3.3  -5.3  2  J
        339 11.6    0  C   6.9   0  96  -0.7   6.6  -1.3  1  C
        355  9.8   17  J   6.6  -8  90   0.0   5.8  -2.0  3  J
        370 12.4   19  J   7.9 -36  88   0.2   4.8  -5.3  3  J

                         SEP. 8, 1980                          252
 1      377  9.7   24  J   7.6 -11 112  -2.4   5.6  -2.6  4  J
 2      395  8.5   31  J   8.3  -4 126  -4.6   6.0  -2.1  3  J
 3      428  5.6   95  J   6.9  54 127  -2.2   4.3   4.0  3  J
 4      427  6.0   69  J   6.8  49 137  -3.1   4.4   3.6  2  J
 5      419  6.1   63  J   6.5  30 143  -4.4   4.3   1.7  1  J
 6      418  6.0   55  J   6.4  21 141  -4.6   4.3   0.4  1  J
 7      420  5.8   42  J   6.6  19 141  -4.8   4.5   0.0  0  J
 8      420  5.7   37  J   7.0  26 137  -4.5   5.2   0.4  1  J
 9      418  5.9   39  J   7.1  21 134  -4.5   5.2  -0.4  2  J
10      416  7.5   62  J   5.6  33 112  -1.6   4.7   0.1  3  J
11      390  8.9   94  J   5.7  19 143  -4.0   3.5  -0.3  2  J
12      386  8.0   57  J   5.6  -8 151  -4.7   1.7  -2.1  2  J
13      387  8.1   66  J   5.6  15 136  -3.7   3.7  -0.8  2  J
14      414  7.6   75  J   5.2  55  74   0.7   4.0   1.9  3  J
15      430  8.9  112  J   4.5   8 351   2.8  -0.2   0.6  3  J
16      418  9.3   89  J   5.3 -22 165  -2.0   0.1  -1.0  5  J
17      417  7.4   58  J   6.5  15 124  -3.5   5.4  -0.5  1  J
18      413  8.3    0  C   4.5  48  72   0.6   2.7   1.5  2  C
19      419  7.7    0  C   4.3  37  45   2.1   2.7   1.5  2  C
20      463  6.5   87  J   4.9  -7 325   4.0  -2.9   0.1  0  J
21      434  6.3   60  J   6.1  -8 308   3.5  -4.5   0.2  2  J
22      431  6.3   61  J   5.8   2 301   2.9  -4.7   1.2  2  J
23      426  7.2   82  J   4.9  25 321   3.0  -2.0   2.3  3  J
24      428  7.0   80  J   5.5   0 308   3.1  -3.9   0.8  2  J

                         SEP. 9, 1980                          253
        420  7.4   84  J   4.6  -1 284   0.9  -3.7   0.8  3  J
        406  7.2   65  J   5.2  -1 145  -3.4   2.3  -0.7  3  J
        416  6.8   71  J   6.5  30 126  -3.1   4.9   1.6  3  J
        405  8.0    0  C   4.6  20 194  -2.5  -0.3   1.1  3  C
        421  6.1   83  J   4.9  47 107  -0.7   3.3   1.6  3  J
        426  5.8  121  J   3.7 -21 186  -0.9  -0.2  -0.3  4  J
        420  5.9   89  J   4.6 -20 162  -3.3   0.3  -1.6  3  J
        408  5.7   81  J   5.2  27 138  -3.4   3.8   0.4  1  J
        431  5.8   75  J   5.6  60 159  -2.3   3.0   3.1  3  J
        418  5.1   51  J   5.5  -1 158  -4.4   1.4  -1.1  2  J
        414  4.4   40  J   5.4 -15 166  -4.6   0.2  -1.7  2  J
        420  5.2   73  J   5.5  40 140  -2.4   3.2   1.0  4  J
        448  5.2   65  J   5.5  -1 115  -1.6   2.9  -2.0  4  J
        442  5.0   68  J   5.3 -13 135  -2.3   1.6  -1.8  4  J
        427  4.6   46  J   5.1 -19 146  -3.1   1.2  -2.1  3  J
        439  4.6   51  J   5.3 -51 147  -2.6  -0.2  -4.2  2  J
        425  4.7   42  J   5.4 -35 151  -3.3   0.6  -3.1  3  J
        421  4.6   38  J   5.7 -40 154  -3.6   0.5  -3.7  2  J
        412  4.6   30  J   5.7   3 130  -3.5   4.0  -1.0  2  J
        405  4.0   29  J   5.9   1 136  -4.0   3.8  -0.9  2  J
        415  4.3   33  J   6.0 -27 141  -3.9   2.5  -3.2  2  J
        418  5.7   35  J   5.4 -39 164  -4.0   0.4  -3.6  1  J
        410  7.0    0  C   5.0 -37 154  -3.5   1.1  -3.3  1  C
        402  8.0    0  C   4.2 -48 175  -2.8  -0.4  -3.0  1  C

                         SEP. 10, 1980                         254
 1      401  8.2    0  C   3.4 -29 159  -2.7   0.7  -1.8  1  C
 2      392  8.1    0  C   2.3 -51  84   0.0   0.3  -0.7  2  C
 3      387  6.7    0  C   4.0   8 327   3.1  -1.8   1.1  1  C
 4      381  4.3   27  J   5.0 -10 327   3.8  -2.6   0.1  2  J
 5      383  4.3   40  J   4.3   5 334   3.8  -1.6   1.0  1  J
 6      399  4.9   61  J   3.3   3 329   1.9  -1.0   0.6  3  J
 7      384  4.7   63  J   3.4   9 334   3.0  -1.0   1.2  1  J
 8                         3.8  17 339   3.2  -0.5   1.5  1  J
 9
10
11                         3.9  34 313   1.2  -0.4   1.7  3  J
12      379  4.9   27  J   4.2  44 330   2.6   0.4   3.2  1  J
13      381  5.0   28  J   4.2  39  13   2.9   1.9   1.6  2  J
14      376  5.1   27  J   3.9  34  40   2.3   2.7   0.7  2  J
15      376  5.3   30  J   3.9  22  26   3.3   2.1   0.5  0  J
16      355  5.8    0  C   5.1 -17  49   3.1   2.6  -2.9  1  C
17      373  4.0   26  J   5.1  -1  35   4.2   2.6  -1.2  1  J
18      375  4.3   34  J   4.4 -21  39   2.8   1.7  -2.1  2  J
19      364  4.7   95  J   3.1   5 343   2.8  -0.7   0.5  1  J
20      353  5.2    0  C   2.7 -37 291   0.6  -1.9  -0.9  2  C
21      352  5.0    0  C   2.4 -22 353   1.8  -0.4  -0.6  1  C
22      361  5.3   34  J   1.9 -31 124  -0.7   0.8  -0.9  1  J
23      348  5.3   28  J   2.4 -32  69   0.4   0.9  -0.9  2  J
24      336  6.8   20  J   1.4 -71  63   0.1   0.1  -1.0  1  J

                         SEP. 11, 1980                         255
        338  7.6   19  J   2.3 -67 292   0.2  -0.7  -1.1  2  J
        337  7.1   20  J   2.7 -47  34   1.4   0.4  -1.9  1  J
        321  7.6   16  J   3.0 -43  16   2.0  -0.0  -2.0  1  J
        307  9.9   16  J   3.1 -40   2   2.4  -0.6  -1.9  1  J
        306 14.3   14  J   2.9 -19  13   2.1   0.2  -0.9  2  J
        304 12.8   15  J   2.6  23 172  -2.2   0.7   0.7  2  J
        300  9.5   14  J   3.6   1 155  -2.9   1.2  -0.6  1  J
        296 12.9    0  C   3.5   5 160  -3.1   1.1  -0.3  1  C
        288  9.5    0  C   2.9 -29  96  -0.2   1.3  -2.4  1  C
        293 10.5    0  C   4.1 -41  77   0.7   1.0  -3.9  1  J
        287 10.5    0  C   4.6 -37  73   1.1   1.3  -4.3  0  J
        282  8.4    0  C   4.2 -31  83   0.4   1.7  -3.7  1  J
        285  7.8    0  C   4.1 -25  81   0.6   2.1  -3.5  0  J
        285  9.5    0  C   4.2 -22  77   0.9   2.4  -3.3  0  C
        284 10.3    0  C   5.3 -35  85   0.3   1.8  -3.8  3  J
        280 10.8    0  C   5.3 -27  73   1.3   2.8  -3.9  2  J

        302 11.0   11  J   4.6 -44  64   1.4   1.6  -3.9  1  J
        299  7.9   11  J   4.8 -43  78   0.7   2.2  -4.1  1  J
        301  7.3   11  J   4.8 -38  79   0.7   2.8  -3.7  1  J
        303  7.0   13  J   4.8 -43  76   0.8   2.5  -3.9  1  J
        299  9.1   12  J   4.0 -72  56   0.7   0.2  -3.8  1  J
        302 10.2   16  J   4.1 -64  24   1.6  -0.0  -3.6  1  J
        300  7.6   12  J   4.9 -37  59   2.0   2.6  -3.5  1  J

                         SEP. 12, 1980                         256
 1      300  7.8   12  J   4.8 -43  66   1.3   2.2  -3.7  2  J
 2      288  8.2    0  C   5.6 -53  56   1.8   1.6  -5.0  1  C
 3      286  7.4    0  C   5.6 -63  65   1.1   0.7  -5.4  1  J
 4      284  7.4    0  C   6.2 -45  86   0.3   2.6  -5.6  0  J
 5      292  6.7    0  C   6.2 -48  81   0.6   2.0  -5.7  1  J
 6      320  8.7   13  J   8.6 -57  69   1.7   0.8  -8.4  1  J
 7      322 10.3   11  J   9.3 -44  69   2.4   2.4  -8.7  1  J
 8      314 11.5   12  J   9.1 -37  72   2.2   3.1  -8.3  1  J
 9      301 14.2    0  C
10      297 12.7    0  C   8.4 -52  61   2.5   0.1  -8.0  1  C
11      306 13.8    0  C   8.2 -43  58   3.2   0.9  -7.5  0  C
12      295 12.8    0  C   8.3 -39  68   2.3   1.9  -7.6  1  C
13      304 17.4    0  C   7.1 -13 122  -3.6   4.0  -4.5  3  J
14      318 19.6    0  C   7.8   4 100  -1.2   6.0  -3.1  4  J
15      321 19.0    0  C   8.3 -33  78   1.4   3.6  -6.9  3  J
16      318 17.5   33  J   8.1 -77 103  -0.4  -1.9  -7.6  2  J
17      320 18.6   32  J   7.6 -88 347   0.3  -3.0  -6.9  1  J
18      311 18.1    0  C   6.8 -41 222  -3.6  -4.4  -2.8  2  C
19      311 19.7   26  J   6.6 -51 209  -3.4  -3.2  -4.0  3  J
20      314 23.0   16  J   6.1 -73 189  -1.7  -1.7  -5.3  2  J
21      315 18.9   18  J   7.0 -51 221  -3.2  -3.9  -4.5  1  J
22      319 16.0   17  J   7.6 -67 228  -2.0  -3.6  -6.3  1  J
23      313 12.8   13  J   8.1 -65 227  -2.3  -3.9  -6.6  1  J
24      307 19.7   13  J   7.0 -64 118  -1.4   1.3  -6.7  1  J

                         SEP. 13, 1980                         257
        308 17.7   13  J   7.3 -58 111  -1.3   2.0  -6.6  2  J
        305 12.8    0  C   8.3 -72 133  -1.7  -0.2  -7.7  3  J
        304 15.7   12  J   7.6 -50  89   0.1   2.9  -7.0  1  J
        305 10.8   11  J   7.8 -55  82   0.6   1.9  -7.3  2  J
        300  9.4   11  J   8.5 -66  79   0.7   0.1  -8.5  1  J
        301  9.8   11  J   8.4 -53  75   1.3   1.4  -8.1  1  J
        299 10.4   11  J   8.3 -50  88   0.2   1.6  -8.0  1  J
        300 12.4   12  J   8.2 -40  81   1.0   2.6  -7.7  1  J
        325 16.3   24  J  10.7 -42  97  -0.9   2.7 -10.1  2  J
        327 17.8   26  J  10.1 -43 105  -1.8   1.9  -9.2  3  J
        323 15.2   26  J  10.2 -21  94  -0.6   5.6  -8.2  2  J
        332 14.6   25  J   9.6 -44 103  -1.5   1.7  -9.0  2  J
        329 17.6   23  J   8.9 -38 110  -2.2   2.2  -7.4  4  J
        325 20.2   35  J   7.4 -12 103  -1.6   5.0  -4.8  2  J


        311 16.6    0  C

        311 16.6    0  C   6.6  -9 302   2.6  -4.1   0.5  4  C
        309 17.0    0  C   7.8 -32 290   2.2  -6.7  -2.3  2  C
        321 14.0    0  C   7.8  17 321   5.6  -3.9   3.2  2  C
        327 13.5    0  C   8.0   3 312   5.2  -5.5   1.7  2  C
        340 11.3    0  C   8.2  37 300   3.1  -4.3   5.7  2  C
        338 11.8    0  C   8.3   5 303   4.3  -6.4   2.2  2  C
```

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09/14/80 – 09/21/80

SEP. 14, 1980

258

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 344 | 11.7 | 0 | C | 7.7 | 12 | 308 | 4.4 | -5.1 | 2.7 | 2 | C |
| 2 | 352 | 12.2 | 0 | C | 7.4 | -39 | 322 | 3.8 | -3.8 | -2.9 | 4 | C |
| 3 | 351 | 12.8 | 0 | C | 7.5 | -48 | 333 | 4.2 | -3.6 | -4.3 | 2 | C |
| 4 | 344 | 13.1 | 0 | C | 7.5 | -42 | 331 | 4.6 | -4.0 | -3.5 | 2 | C |
| 5 | 354 | 11.5 | 0 | C | 8.7 | 20 | 314 | 4.3 | -3.3 | 3.9 | 6 | C |
| 6 | 363 | 9.2 | 75 | J | 8.9 | 16 | 311 | 5.2 | -4.4 | 4.7 | 3 | J |
| 7 | 372 | 9.0 | 63 | J | 9.1 | 23 | 296 | 3.6 | -4.8 | 6.6 | 2 | J |
| 8 | 357 | 8.9 | 76 | J | 9.1 | 21 | 319 | 6.3 | -3.0 | 5.6 | 2 | J |
| 9 | 358 | 10.4 | 56 | J | 8.8 | -27 | 310 | 4.4 | -6.3 | -0.1 | 4 | J |
| 10 | 349 | 11.2 | 103 | J | 8.9 | -10 | 319 | 6.2 | -5.3 | 1.9 | 3 | J |
| 11 | 347 | 12.0 | 68 | J | 9.1 | -37 | 349 | 6.5 | -3.9 | -3.4 | 4 | J |
| 12 | 344 | 11.2 | 49 | J | 9.4 | -5 | 320 | 6.7 | -5.1 | 2.6 | 3 | J |
| 13 | 334 | 10.5 | 39 | J | 9.5 | 15 | 344 | 8.5 | -0.7 | 3.3 | 2 | J |
| 14 | 335 | 10.7 | 44 | J | 8.9 | 6 | 329 | 7.3 | -3.3 | 3.1 | 2 | J |
| 15 | 329 | 10.3 | 42 | J | 8.6 | 18 | 337 | 7.4 | -1.5 | 3.8 | 2 | J |
| 16 | 347 | 12.1 | 71 | J | 6.9 | 34 | 328 | 4.8 | -1.0 | 4.7 | 1 | J |
| 17 | 350 | 11.2 | 77 | J | 7.3 | 19 | 328 | 5.7 | -2.3 | 3.5 | 2 | J |
| 18 | 345 | 13.0 | 0 | C | 8.1 | 36 | 323 | 5.1 | -2.0 | 5.7 | 2 | C |
| 19 | 360 | 12.5 | 0 | C | 8.2 | 39 | 327 | 5.2 | -1.7 | 5.9 | 2 | C |
| 20 | 354 | 13.0 | 0 | C | 7.2 | 23 | 312 | 4.2 | -3.8 | 3.8 | 2 | J |
| 21 | 352 | 13.3 | 0 | C | 6.9 | 1 | 292 | 2.5 | -6.0 | 1.6 | 2 | J |
| 22 | 352 | 12.5 | 0 | C | 7.0 | 3 | 319 | 3.9 | -3.3 | 1.0 | 4 | C |
| 23 | 361 | 10.6 | 0 | C | 7.8 | -57 | 304 | 2.3 | -4.6 | -5.4 | 1 | C |
| 24 | 366 | 9.7 | 0 | C | 7.4 | -37 | 292 | 2.0 | -5.6 | -2.8 | 3 | C |

SEP. 16, 1980

260

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 381 | 3.7 | 0 | C | 7.3 | -5 | 318 | 5.3 | -4.9 | 0.5 | 1 | C |
| 2 | 372 | 4.0 | 0 | C | 7.2 | -8 | 321 | 5.5 | -4.5 | 0.1 | 1 | C |
| 3 | 368 | 4.5 | 0 | C | 6.6 | -10 | 317 | 4.5 | -4.3 | 0.2 | 2 | C |
| 4 | 361 | 4.9 | 0 | C | 6.7 | -18 | 324 | 5.1 | -4.1 | -0.7 | 1 | C |
| 5 | 368 | 5.4 | 0 | C | 6.9 | -27 | 322 | 4.8 | -4.7 | -1.4 | 1 | C |
| 6 | 370 | 7.5 | 0 | C | 6.4 | -32 | 323 | 4.2 | -4.3 | -1.6 | 1 | C |
| 7 | 366 | 9.7 | 0 | C | 5.4 | -74 | 329 | 0.8 | -2.1 | -2.8 | 3 | C |
| 8 | 357 | 10.6 | 0 | C | 6.8 | -63 | 285 | 0.8 | -5.4 | -3.4 | 2 | C |
| 9 | 369 | 11.8 | 0 | C | 8.3 | -31 | 305 | 3.5 | -6.2 | -0.3 | 3 | C |
| 10 | 384 | 9.3 | 0 | C | 9.6 | 9 | 319 | 5.8 | -3.5 | 3.8 | 5 | C |
| 11 | 401 | 6.1 | 0 | C | 9.7 | 36 | 333 | 6.9 | 0.4 | 6.6 | 1 | C |
| 12 | 394 | 6.1 | 0 | C | 9.7 | 16 | 328 | 7.9 | -2.6 | 4.9 | 1 | C |
| 13 | 392 | 6.3 | 0 | C | 9.9 | 17 | 322 | 7.4 | -3.3 | 5.5 | 1 | C |
| 14 | 397 | 6.6 | 0 | C | 10.4 | 44 | 338 | 6.3 | 1.3 | 6.8 | 4 | C |
| 15 | 431 | 9.3 | 0 | C | 10.1 | 48 | 333 | 5.2 | 0.8 | 6.9 | 5 | C |
| 16 | 445 | 9.7 | 0 | C | 10.5 | 54 | 332 | 5.4 | 1.2 | 8.8 | 2 | C |
| 17 | 413 | 7.0 | 0 | C | 10.1 | 34 | 309 | 5.1 | -3.6 | 7.5 | 2 | C |
| 18 | 414 | 8.0 | 0 | C | 8.7 | 31 | 287 | 2.0 | -4.7 | 6.2 | 3 | C |
| 19 | 419 | 9.5 | 0 | C | 7.9 | 14 | 310 | 4.6 | -4.7 | 3.3 | 2 | C |
| 20 | 419 | 11.0 | 0 | C | 8.7 | -45 | 303 | 3.1 | -6.2 | -4.3 | 2 | C |
| 21 | 418 | 11.6 | 0 | C | 7.3 | -4 | 315 | 3.6 | -3.6 | 0.5 | 5 | C |
| 22 | 418 | 12.0 | 0 | C | 6.8 | 0 | 333 | 5.1 | -2.6 | 0.6 | 3 | C |
| 23 | 426 | 12.0 | 0 | C | 5.7 | 42 | 349 | 1.7 | -0.0 | 1.6 | 5 | C |
| 24 | 430 | 10.7 | 0 | C | 5.1 | 0 | 351 | 2.7 | -0.4 | 0.1 | 4 | C |

SEP. 18, 1980

262

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 383 | 7.5 | 0 | C | 5.0 | 4 | 311 | 3.2 | -3.5 | 1.2 | 1 | C |
| 2 | 380 | 7.5 | 0 | C | 4.8 | 22 | 323 | 3.4 | -2.0 | 2.3 | 1 | C |
| 3 | 370 | 7.2 | 0 | C | 5.2 | 0 | 312 | 3.3 | -3.5 | 1.1 | 1 | C |
| 4 | 369 | 7.0 | 0 | C | 5.2 | -4 | 305 | 2.7 | -3.7 | 1.0 | 2 | C |
| 5 | 365 | 6.8 | 0 | C | 5.1 | -23 | 312 | 3.1 | -3.9 | -0.5 | 1 | C |
| 6 | 364 | 6.8 | 0 | C | 5.2 | -43 | 285 | 0.9 | -4.7 | -1.5 | 1 | C |
| 7 | 358 | 7.1 | 0 | C | 4.5 | -61 | 314 | 1.4 | -2.9 | -2.4 | 1 | C |
| 8 | 360 | 7.6 | 0 | C | 5.0 | -59 | 298 | 1.1 | -3.8 | -2.2 | 2 | C |
| 9 | 355 | 7.9 | 0 | C | 5.2 | -34 | 287 | 1.2 | -4.8 | -0.2 | 1 | C |
| 10 | 355 | 8.1 | 0 | C | 5.1 | -34 | 299 | 1.7 | -4.0 | -0.2 | 2 | C |
| 11 | 356 | 8.0 | 0 | C | 5.2 | -39 | 293 | 1.4 | -4.5 | -0.5 | 2 | C |
| 12 | 350 | 7.3 | 0 | C | 5.5 | -5 | 319 | 4.0 | -3.2 | 1.7 | 1 | C |
| 13 | 352 | 7.1 | 0 | C | 4.9 | 21 | 318 | 3.3 | -1.5 | 3.0 | 1 | C |
| 14 | 353 | 7.1 | 0 | C | 4.8 | 27 | 326 | 3.2 | -0.8 | 2.8 | 1 | C |
| 15 | 359 | 6.9 | 0 | C | 4.8 | 18 | 332 | 3.2 | -0.9 | 1.8 | 3 | C |
| 16 | 360 | 6.6 | 0 | C | 4.9 | -12 | 302 | 2.5 | -4.0 | 0.9 | 1 | C |
| 17 | 359 | 6.4 | 0 | C | 4.8 | -21 | 285 | 1.0 | -4.2 | 0.1 | 2 | C |
| 18 | 359 | 6.5 | 0 | C | 4.7 | -28 | 277 | 0.5 | -4.4 | -0.6 | 1 | C |
| 19 | 343 | 7.4 | 0 | C | 4.4 | -58 | 323 | 0.9 | -1.2 | -1.5 | 4 | C |
| 20 | 344 | 7.2 | 0 | C | 4.8 | 12 | 307 | 2.6 | -3.1 | 1.8 | 2 | C |
| 21 | 375 | 5.8 | 0 | C | 5.2 | -4 | 294 | 2.1 | -4.5 | 0.7 | 0 | C |
| 22 | 368 | 6.4 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 368 | 6.4 | 0 | C | 4.0 | -19 | 294 | 1.3 | -3.1 | -0.4 | 2 | C |
| 24 | 365 | 6.4 | 0 | C | 4.0 | -32 | 302 | 1.7 | -3.1 | -1.4 | 1 | C |

SEP. 20, 1980

264

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 342 | 6.1 | 26 | J | 4.8 | -37 | 280 | 0.6 | -3.6 | -1.6 | 2 | C |
| 2 | 374 | 14.1 | 46 | J | 7.1 | -33 | 279 | 0.6 | -4.4 | -1.4 | 6 | C |
| 3 | 375 | 13.9 | 51 | J | 9.6 | -26 | 285 | 2.1 | -8.6 | -1.3 | 3 | C |
| 4 | 372 | 14.0 | 52 | J | 10.0 | -33 | 296 | 3.1 | -7.8 | -2.2 | 4 | C |
| 5 | 377 | 13.3 | 52 | J | 9.6 | 7 | 278 | 1.0 | -6.2 | 3.6 | 6 | C |
| 6 | 382 | 14.2 | 76 | J | 8.5 | 16 | 273 | 0.3 | -4.9 | 4.5 | 4 | C |
| 7 | 366 | 12.7 | 85 | J | 9.2 | -9 | 276 | 0.9 | -8.4 | 3.1 | 1 | C |
| 8 | 361 | 13.7 | 82 | J | 8.8 | 11 | 286 | 2.3 | -6.2 | 5.7 | 0 | C |
| 9 | 365 | 14.5 | 77 | J | 8.5 | 5 | 279 | 1.2 | -6.1 | 4.8 | 3 | C |
| 10 | 373 | 14.1 | 73 | J | 8.2 | 9 | 272 | 0.2 | -5.4 | 5.1 | 3 | C |
| 11 | 356 | 11.3 | 100 | J | 8.5 | -14 | 300 | 3.0 | -5.2 | 1.8 | 5 | C |
| 12 | 363 | 10.5 | 82 | J | 8.5 | 0 | 285 | 1.9 | -6.0 | 4.1 | 3 | C |
| 13 | 370 | 9.8 | 63 | J | 8.1 | 31 | 251 | -1.9 | -2.7 | 6.0 | 4 | J |
| 14 | 358 | 8.9 | 109 | J | 7.8 | -3 | 290 | 2.5 | -6.0 | 3.3 | 3 | J |
| 15 | 376 | 10.3 | 54 | J | 7.4 | -3 | 283 | 1.6 | -6.4 | 3.1 | 1 | J |
| 16 | 373 | 11.4 | 101 | J | 4.5 | -27 | 349 | 3.9 | -1.6 | -1.5 | 1 | J |
| 17 | 359 | 12.1 | 77 | J | 5.5 | 6 | 305 | 2.1 | -2.6 | 1.6 | 4 | J |
| 18 | 365 | 12.0 | 58 | J | 5.3 | 2 | 280 | 0.9 | -4.6 | 1.9 | 1 | J |
| 19 | 362 | 11.8 | 59 | J | 5.5 | -6 | 288 | 1.7 | -5.0 | 1.0 | 1 | J |
| 20 | 359 | 12.1 | 58 | J | 5.5 | 14 | 287 | 1.5 | -4.5 | 2.6 | 1 | J |
| 21 | 361 | 12.0 | 53 | J | 5.8 | -5 | 275 | 0.5 | -5.4 | 0.8 | 2 | J |
| 22 | 359 | 30.7 | 27 | J |  |  |  |  |  |  |  |  |
| 23 | 374 | 11.1 | 65 | J | 5.0 | -1 | 231 | -3.0 | -3.7 | 0.7 | 1 | J |
| 24 | 342 | 9.0 | 40 | J | 4.4 | -21 | 24 | 3.2 | 1.1 | -1.6 | 2 | J |

SEP. 15, 1980

259

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 315 | 4.5 | 181 | L | 7.3 | -29 | 305 | 3.0 | -4.8 | -1.8 | 4 | C |
| 291 | 4.7 | 127 | L | 7.9 | 30 | 302 | 3.5 | -4.5 | 5.2 | 1 | C |
| 376 | 7.9 | 0 | C | 7.6 | 46 | 307 | 3.1 | -2.3 | 6.3 | 2 | C |
| 386 | 7.6 | 0 | C | 6.5 | 66 | 332 | 2.2 | 0.9 | 5.7 | 2 | C |
| 401 | 6.8 | 0 | C | 7.4 | 17 | 329 | 5.9 | -2.4 | 3.3 | 1 | C |
| 410 | 6.6 | 0 | C | 5.6 | -27 | 323 | 3.3 | -3.2 | -0.8 | 3 | C |
| 406 | 6.1 | 0 | C | 6.6 | -12 | 322 | 4.0 | -3.2 | 0.5 | 4 | C |
| 400 | 6.1 | 0 | C | 6.4 | -7 | 332 | 5.6 | -2.9 | 0.9 | 1 | C |
| 394 | 6.1 | 0 | C | 6.2 | -12 | 338 | 5.5 | -2.6 | 0.1 | 1 | C |
| 390 | 6.1 | 0 | C | 6.1 | -16 | 335 | 5.3 | -3.0 | -0.0 | 1 | C |
| 383 | 6.3 | 0 | C | 5.7 | -26 | 337 | 4.7 | -3.0 | -0.9 | 1 | C |
| 375 | 6.4 | 0 | C | 5.7 | -29 | 345 | 4.7 | -2.6 | -1.6 | 1 | C |
| 370 | 6.8 | 0 | C | 5.2 | -35 | 343 | 3.9 | -2.6 | -1.8 | 1 | C |
| 367 | 6.7 | 0 | C | 5.5 | -31 | 336 | 4.1 | -2.9 | -1.3 | 2 | C |
| 364 | 6.4 | 0 | C | 5.2 | -22 | 338 | 4.3 | -2.5 | -0.8 | 1 | C |
| 355 | 6.0 | 0 | C | 5.6 | -24 | 333 | 4.4 | -3.0 | -0.9 | 2 | C |
| 348 | 6.4 | 0 | C | 5.4 | -34 | 321 | 3.3 | -3.7 | -1.6 | 1 | C |
| 354 | 6.5 | 0 | C | 5.6 | -82 | 166 | -0.6 | -1.3 | -3.9 | 3 | C |
| 362 | 6.0 | 0 | C | 5.0 | -62 | 257 | -0.4 | -3.0 | -3.0 | 2 | C |
| 363 | 6.0 | 0 | C | 4.4 | -48 | 318 | 1.7 | -2.1 | -2.0 | 3 | C |
| 344 | 2.8 | 177 | L | 5.7 | -54 | 321 | 2.5 | -3.0 | -3.8 | 1 | C |
| 381 | 5.4 | 0 | C | 6.5 | -30 | 314 | 3.6 | -4.4 | -2.2 | 2 | C |
| 372 | 5.1 | 0 | C | 6.9 | -23 | 334 | 5.6 | -3.2 | -2.0 | 1 | C |
| 371 | 4.5 | 0 | C | 7.8 | -4 | 329 | 6.7 | -4.0 | 0.3 | 0 | C |

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261

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 442 | 8.8 | 0 | C | 4.9 | 21 | 310 | 1.5 | -1.6 | 1.3 | 4 | C |
| 447 | 7.6 | 0 | C | 3.9 | 4 | 334 | 1.5 | -0.7 | 0.3 | 3 | C |
| 443 | 7.1 | 0 | C | 4.4 | -1 | 350 | 4.1 | -0.7 | 0.2 | 1 | C |
| 440 | 7.0 | 0 | C | 4.2 | -7 | 350 | 4.1 | -0.9 | -0.3 | 0 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 429 | 6.1 | 0 | C | 4.9 | -3 | 333 | 4.3 | -2.1 | 0.7 | 0 | C |
| 429 | 6.1 | 0 | C | 5.2 | 2 | 328 | 4.2 | -2.3 | 1.4 | 2 | C |
| 414 | 7.1 | 0 | C | 5.1 | -77 | 208 | -0.9 | -2.7 | -3.5 | 3 | C |
| 407 | 7.2 | 0 | C | 6.2 | -69 | 180 | -2.2 | -3.2 | -4.8 | 1 | C |
| 412 | 7.8 | 0 | C | 6.2 | -68 | 205 | -2.1 | -3.9 | -4.1 | 1 | C |
| 399 | 7.1 | 0 | C | 6.8 | -73 | 131 | -1.2 | -2.4 | -6.0 | 2 | C |
| 406 | 9.1 | 0 | C | 6.0 | -62 | 191 | -2.7 | -3.5 | -4.1 | 1 | C |
| 394 | 8.4 | 0 | C | 6.0 | -48 | 263 | -0.3 | -4.0 | -1.1 | 4 | C |
| 400 | 7.1 | 0 | C | 6.2 | -34 | 281 | 0.7 | -4.7 | -0.2 | 4 | C |
| 403 | 7.5 | 0 | C | 5.6 | -3 | 280 | 0.8 | -4.0 | 2.0 | 3 | C |
| 401 | 7.9 | 0 | C | 5.6 | -23 | 275 | 0.3 | -4.4 | 0.3 | 3 | C |
| 398 | 7.3 | 0 | C | 5.7 | 22 | 271 | 0.1 | -3.7 | 3.8 | 2 | C |
| 406 | 7.3 | 0 | C | 5.1 | 8 | 271 | 0.1 | -4.2 | 2.3 | 0 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 382 | 7.5 | 0 | C |  |  |  |  |  |  |  |  |

SEP. 19, 1980

263

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 369 | 6.4 | 0 | C | 4.0 | -4 | 319 | 2.4 | -2.0 | 0.2 | 2 | C |
| 366 | 6.3 | 0 | C | 3.9 | -21 | 343 | 3.1 | -1.2 | -0.9 | 2 | C |
| 364 | 6.2 | 0 | C | 4.2 | 16 | 305 | 2.2 | -2.7 | 2.0 | 1 | C |
| 358 | 6.0 | 0 | C | 4.2 | 30 | 314 | 2.4 | -1.6 | 2.7 | 1 | C |
| 359 | 5.9 | 0 | C | 4.0 | 40 | 311 | 2.0 | -1.1 | 3.1 | 1 | C |
| 356 | 5.9 | 0 | C | 4.0 | 0 | 309 | 2.0 | -2.2 | 1.1 | 2 | C |
| 350 | 5.9 | 0 | C | 4.5 | 15 | 298 | 1.8 | -2.5 | 2.6 | 2 | C |
| 348 | 6.0 | 0 | C | 4.5 | 8 | 320 | 3.3 | -2.1 | 2.0 | 1 | C |
| 343 | 6.0 | 0 | C | 4.6 | 18 | 326 | 3.5 | -1.2 | 2.4 | 1 | C |
| 343 | 6.2 | 0 | C | 4.5 | 25 | 314 | 2.8 | -1.3 | 3.2 | 1 | C |
| 335 | 6.8 | 0 | C | 4.1 | -76 | 128 | -0.2 | -0.7 | -1.5 | 4 | C |
| 334 | 7.4 | 0 | C | 4.7 | -61 | 134 | -1.5 | -1.0 | -4.2 | 1 | C |
| 335 | 7.6 | 0 | C | 4.5 | -74 | 145 | -1.0 | -1.7 | -3.7 | 2 | C |
| 332 | 7.3 | 0 | C | 4.3 | -52 | 311 | 1.6 | -3.2 | -1.7 | 1 | C |
| 330 | 7.8 | 0 | C | 4.5 | -60 | 2 | 2.0 | -1.6 | -3.0 | 2 | C |
| 332 | 8.0 | 0 | C | 3.9 | -38 | 290 | 1.0 | -3.3 | -0.8 | 1 | C |
| 333 | 8.0 | 0 | C | 4.6 | -59 | 316 | 1.1 | -2.0 | -1.9 | 3 | C |
| 331 | 8.2 | 0 | C | 4.5 | -57 | 358 | 2.1 | -1.2 | -2.9 | 2 | C |
| 327 | 7.7 | 0 | C | 4.8 | -44 | 268 | -0.1 | -3.7 | -1.8 | 2 | C |
| 327 | 7.5 | 0 | C | 4.9 | -47 | 277 | 0.4 | -3.9 | -2.4 | 2 | C |
| 328 | 7.7 | 0 | C | 4.7 | -43 | 279 | 0.5 | -3.5 | -2.0 | 2 | C |
| 330 | 8.5 | 0 | C | 4.7 | -45 | 51 | 1.4 | 1.3 | -2.6 | 3 | C |
| 328 | 8.8 | 0 | C | 4.6 | -71 | 303 | 0.7 | -1.8 | -3.4 | 2 | C |
| 330 | 8.9 | 0 | C | 4.6 | -42 | 265 | -0.3 | -3.3 | -1.9 | 2 | C |

SEP. 21, 1980

265

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  | 4.0 | 15 | 350 | 2.8 | -0.3 | 0.8 | 3 | J |
| 339 | 9.9 | 24 | J | 4.0 | 42 | 310 | 1.5 | -1.2 | 2.5 | 2 | J |
| 333 | 10.1 | 29 | J | 4.9 | 12 | 288 | 1.4 | -3.9 | 2.3 | 1 | J |
| 337 | 8.9 | 25 | J | 5.0 | -10 | 279 | 0.8 | -4.9 | 0.9 | 1 | J |
| 338 | 8.3 | 26 | J | 5.1 | -25 | 230 | -2.9 | -3.9 | -0.6 | 1 | J |
| 342 | 8.7 | 34 | J | 4.3 | -19 | 205 | -3.7 | -2.2 | -0.5 | 1 | J |
| 330 | 9.2 | 45 | J | 3.7 | 15 | 276 | 0.2 | -1.3 | 1.2 | 3 | J |
| 332 | 10.0 | 32 | J | 4.9 | -3 | 289 | 1.5 | -3.7 | 2.0 | 2 | J |
| 328 | 10.1 | 34 | J | 5.4 | -3 | 300 | 2.6 | -3.9 | 2.2 | 2 | J |
| 332 | 9.3 | 34 | J | 5.4 | 21 | 243 | -2.0 | -2.2 | 3.5 | 3 | J |
| 340 | 8.8 | 28 | J | 5.7 | 16 | 247 | -2.0 | -3.1 | 4.0 | 2 | J |
| 328 | 9.0 | 26 | J | 5.6 | -3 | 268 | -0.2 | -4.5 | 2.8 | 2 | J |
| 324 | 8.9 | 28 | J | 5.1 | -5 | 264 | -0.5 | -4.0 | 2.2 | 2 | J |
| 326 | 8.8 | 27 | J | 5.0 | -6 | 270 | -0.0 | -4.3 | 2.1 | 1 | J |
| 326 | 9.3 | 30 | J | 4.2 | -26 | 300 | 1.8 | -3.7 | -0.0 | 1 | J |
| 323 | 9.8 | 38 | J | 3.6 | -22 | 336 | 3.0 | -1.8 | -0.6 | 1 | J |
| 307 | 10.4 | 0 | C | 3.8 | 5 | 326 | 3.0 | -1.8 | 1.1 | 1 | C |
| 309 | 10.3 | 0 | C | 4.1 | 10 | 310 | 2.5 | -2.5 | 1.7 | 0 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 302 | 9.9 | 0 | C |  |  |  |  |  |  |  |  |
| 302 | 9.9 | 0 | C | 4.4 | -6 | 283 | 1.0 | -4.2 | 0.6 | 0 | C |
| 300 | 10.1 | 0 | C | 4.7 | -5 | 279 | 0.7 | -4.4 | 0.6 | 1 | C |
| 301 | 10.8 | 0 | C | 4.8 | -7 | 278 | 0.7 | -4.6 | 0.4 | 1 | C |
| 310 | 12.4 | 0 | C | 4.6 | -3 | 273 | 0.3 | -4.5 | 0.7 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 302 | 14.3 | 0 | C | 5.0 | 2 | 294 | 2.0 | -4.3 | 1.2 | 1 | C |
| 2 | 304 | 16.2 | 0 | C | 5.1 | -8 | 298 | 2.3 | -4.4 | 0.5 | 1 | C |
| 3 | 320 | 15.0 | 29 | J | 5.8 | -27 | 295 | 2.1 | -5.1 | -1.1 | 1 | J |
| 4 | 320 | 17.0 | 24 | J | 5.4 | -24 | 333 | 4.1 | -2.7 | -1.2 | 2 | J |
| 5 | 307 | 15.8 | 22 | J | 5.3 | -17 | 350 | 4.9 | -1.4 | -1.1 | 1 | J |
| 6 | 324 | 17.4 | 39 | J | 4.9 | -33 | 346 | 3.8 | -2.0 | -1.9 | 2 | J |
| 7 | 323 | 21.3 | 33 | J | 4.5 | -51 | 59 | 1.3 | 0.4 | -3.8 | 2 | J |
| 8 | 312 | 24.2 | 0 | C | 4.6 | -4 | 145 | -3.0 | 1.7 | -1.3 | 3 | J |
| 9 | 304 | 26.9 | 0 | C | 4.1 | 47 | 245 | -0.9 | -0.4 | 3.0 | 3 | J |
| 10 | 304 | 25.3 | 0 | C | 4.6 | 44 | 255 | -0.7 | -0.7 | 3.8 | 3 | J |
| 11 | 316 | 26.3 | 0 | C | 4.0 | 45 | 217 | -2.1 | 0.2 | 3.1 | 1 | J |
| 12 | 322 | 31.6 | 0 | C | 4.2 | 54 | 211 | -2.0 | 0.8 | 3.2 | 2 | C |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 330 | 7.4 | 28 | J | 11.3 | -70 | 11 | 3.7 | -4.8 | -9.1 | 2 | J |
| 15 | 350 | 10.0 | 39 | J | 10.5 | 9 | 110 | -3.2 | 8.5 | -3.0 | 4 | J |
| 16 | 325 | 12.2 | 0 | C | 9.8 | 3 | 108 | -2.9 | 8.3 | -3.6 | 3 | J |
| 17 | 311 | 11.4 | 0 | C | 9.7 | -3 | 121 | -4.6 | 6.9 | -3.5 | 3 | J |
| 18 | 322 | 7.9 | 30 | J | 10.0 | 7 | 111 | -3.5 | 9.0 | -2.1 | 2 | J |
| 19 | 334 | 9.6 | 46 | J | 9.2 | 31 | 114 | -3.1 | 7.9 | 2.2 | 3 | J |
| 20 | 335 | 10.1 | 45 | J | 7.9 | 1 | 107 | -2.2 | 7.0 | -1.8 | 2 | J |
| 21 | 339 | 10.3 | 48 | J | 8.2 | 40 | 98 | -0.9 | 7.1 | 3.6 | 2 | J |
| 22 | 354 | 10.2 | 49 | J | 7.7 | 33 | 89 | 0.1 | 6.9 | 2.6 | 2 | J |
| 23 | 344 | 9.1 | 39 | J | 7.8 | 46 | 95 | -0.5 | 6.2 | 4.2 | 2 | J |
| 24 | 340 | 8.8 | 40 | J | 7.3 | 17 | 120 | -3.4 | 6.2 | 0.8 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 9.0 | 63 | J | 7.1 | 8 | 130 | -4.1 | 5.0 | -0.3 | 3 | J |
| 2 | 367 | 8.7 | 75 | J | 6.6 | 14 | 137 | -4.3 | 4.3 | 0.4 | 3 | J |
| 3 | 355 | 7.9 | 80 | J | 6.1 | 28 | 135 | -3.5 | 4.1 | 1.4 | 2 | J |
| 4 | 357 | 8.5 | 142 | J | 5.8 | 12 | 159 | -5.2 | 2.3 | 0.4 | 1 | J |
| 5 | 354 | 8.4 | 114 | J | 5.6 | 12 | 159 | -4.7 | 2.1 | 0.3 | 2 | J |
| 6 | 365 | 8.8 | 0 | C | 5.7 | 55 | 195 | -2.9 | 1.2 | 4.2 | 2 | C |
| 7 | 370 | 8.9 | 0 | C | 6.1 | 53 | 160 | -3.1 | 3.1 | 3.2 | 2 | C |
| 8 | 363 | 8.8 | 0 | C | 6.7 | 9 | 150 | -5.6 | 3.3 | -0.8 | 1 | J |
| 9 | 358 | 8.6 | 0 | C | 6.0 | -14 | 170 | -5.5 | 0.0 | -1.7 | 1 | J |
| 10 | 360 | 8.8 | 0 | C | 6.5 | -26 | 147 | -4.0 | 0.8 | -3.4 | 2 | J |
| 11 | 355 | 8.6 | 0 | C | 5.5 | 2 | 125 | -2.3 | 2.8 | -1.8 | 4 | J |
| 12 | 367 | 7.6 | 27 | J | 5.8 | 24 | 97 | -0.6 | 5.4 | -1.0 | 2 | J |
| 13 | 346 | 7.8 | 0 | C | 6.2 | 32 | 92 | -0.2 | 5.9 | -0.1 | 2 | C |
| 14 | 363 | 7.0 | 26 | J | 6.6 | 43 | 83 | 0.6 | 6.3 | 1.3 | 1 | J |
| 15 | 361 | 7.2 | 30 | J | 6.9 | 42 | 70 | 1.7 | 6.3 | 1.6 | 2 | J |
| 16 | 355 | 7.1 | 36 | J | 6.5 | 58 | 41 | 2.6 | 4.4 | 3.9 | 1 | J |
| 17 | 356 | 7.8 | 38 | J | 5.9 | 59 | 32 | 2.4 | 3.3 | 3.7 | 2 | J |
| 18 | 369 | 7.8 | 34 | J | 7.0 | 45 | 358 | 4.7 | 1.5 | 4.5 | 2 | J |
| 19 | 360 | 8.0 | 32 | J | 6.8 | 41 | 330 | 4.2 | -1.0 | 4.7 | 2 | J |
| 20 | 353 | 7.4 | 0 | C | 6.5 | -8 | 128 | -3.9 | 4.6 | -2.2 | 1 | C |
| 21 | 359 | 6.1 | 0 | C | 6.7 | -7 | 130 | -4.2 | 4.8 | -2.0 | 0 | C |
| 22 | 357 | 6.5 | 0 | C | 6.0 | -11 | 138 | -4.2 | 3.5 | -1.8 | 2 | C |
| 23 | 355 | 6.9 | 0 | C | 6.0 | 12 | 128 | -3.1 | 4.1 | 0.2 | 3 | C |
| 24 | 351 | 6.6 | 0 | C | 6.0 | 15 | 120 | -2.8 | 5.2 | 0.5 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 342 | 6.9 | 0 | C | 5.2 | 41 | 109 | -1.3 | 4.3 | 2.5 | 1 | C |
| 2 | 331 | 7.8 | 0 | C | 4.3 | 38 | 96 | -0.3 | 3.3 | 1.4 | 2 | C |
| 3 | 337 | 10.0 | 15 | J | 3.5 | 0 | 117 | -1.5 | 2.8 | -0.9 | 1 | J |
| 4 | 334 | 10.9 | 13 | J | 3.7 | 4 | 116 | -1.6 | 3.1 | -0.9 | 1 | J |
| 5 |  |  |  |  | 4.2 | 15 | 110 | -1.4 | 3.8 | -0.5 | 1 | J |
| 6 | 319 | 11.7 | 0 | C | 4.7 | 23 | 109 | -1.4 | 4.4 | -0.2 | 1 | J |
| 7 | 319 | 11.7 | 0 | C | 4.8 | 23 | 99 | -0.7 | 4.6 | -0.5 | 1 | J |
| 8 | 311 | 12.2 | 0 | C | 5.3 | 28 | 98 | -0.6 | 5.2 | -0.3 | 1 | C |
| 9 | 330 | 11.9 | 11 | J | 5.2 | 25 | 99 | -0.7 | 4.9 | -0.7 | 1 | C |
| 10 | 329 | 10.6 | 10 | J |  |  |  |  |  |  |  |  |
| 11 | 294 | 12.1 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 294 | 12.1 | 0 | C | 5.5 | 32 | 79 | 0.9 | 5.3 | -0.2 | 1 | C |
| 13 | 295 | 12.0 | 0 | C | 5.6 | 35 | 67 | 1.8 | 5.3 | 0.4 | 1 | C |
| 14 | 304 | 10.9 | 0 | C | 5.4 | 33 | 65 | 1.8 | 4.7 | 0.4 | 2 | C |
| 15 | 361 | 6.1 | 17 | J | 7.0 | -5 | 153 | -6.1 | 2.4 | -2.0 | 1 | J |
| 16 | 358 | 6.2 | 20 | J | 7.3 | 1 | 140 | -5.5 | 4.2 | -1.9 | 1 | J |
| 17 | 363 | 7.6 | 17 | J | 7.1 | -2 | 144 | -5.7 | 3.7 | -1.9 | 1 | J |
| 18 | 359 | 7.7 | 27 | J | 7.5 | 3 | 121 | -3.9 | 6.2 | -1.9 | 1 | J |
| 19 | 365 | 10.1 | 0 | C | 7.1 | 29 | 132 | -4.1 | 5.4 | 1.8 | 1 | C |
| 20 | 371 | 6.5 | 25 | J | 7.8 | 12 | 146 | -6.2 | 4.5 | 0.4 | 1 | J |
| 21 | 384 | 7.6 | 0 | C | 8.2 | 16 | 148 | -6.7 | 4.5 | 1.3 | 0 | C |
| 22 | 372 | 7.7 | 0 | C | 8.4 | 5 | 145 | -6.7 | 4.8 | -0.4 | 1 | C |
| 23 | 363 | 7.0 | 41 | J | 8.0 | -4 | 148 | -6.6 | 3.9 | -1.4 | 2 | J |
| 24 | 363 | 8.3 | 0 | C | 7.9 | -13 | 151 | -6.4 | 3.1 | -2.4 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 8.9 | 0 | C | 7.5 | -22 | 28 | 5.7 | 2.4 | -3.3 | 3 | J |
| 2 | 367 | 8.5 | 24 | J | 8.0 | -20 | 154 | -6.4 | 2.3 | -3.3 | 3 | J |
| 3 | 366 | 8.0 | 23 | J | 8.2 | -12 | 153 | -7.1 | 2.9 | -2.7 | 1 | J |
| 4 | 367 | 8.4 | 0 | C | 6.1 | 12 | 131 | -3.8 | 4.6 | -0.4 | 2 | J |
| 5 | 402 | 11.1 | 93 | J | 5.4 | 14 | 130 | -3.2 | 4.0 | -0.4 | 2 | J |
| 6 | 376 | 10.3 | 62 | J | 7.0 | 0 | 146 | -5.6 | 3.4 | -1.7 | 2 | J |
| 7 | 372 | 10.0 | 30 | J | 7.7 | -11 | 153 | -6.6 | 2.3 | -2.9 | 2 | J |
| 8 | 365 | 9.4 | 29 | J | 7.5 | -16 | 160 | -6.8 | 1.0 | -3.1 | 1 | J |
| 9 | 358 | 8.8 | 36 | J | 7.9 | -19 | 160 | -7.0 | 0.7 | -3.6 | 1 | J |
| 10 | 354 | 9.0 | 46 | J | 7.4 | -14 | 157 | -6.6 | 1.3 | -3.1 | 1 | J |
| 11 | 333 | 10.7 | 33 | J | 5.0 | 14 | 130 | -2.9 | 3.4 | -1.0 | 2 | J |
| 12 | 315 | 12.4 | 0 | C | 5.2 | 4 | 123 | -2.7 | 3.6 | -2.1 | 1 | C |
| 13 | 298 | 12.0 | 0 | C | 6.1 | 13 | 138 | -4.2 | 3.8 | -0.9 | 2 | C |
| 14 | 306 | 10.7 | 43 | J | 5.9 | -19 | 160 | -5.2 | 0.6 | -2.6 | 1 | J |
| 15 | 304 | 8.9 | 25 | J | 6.2 | -23 | 166 | -5.4 | 0.0 | -2.7 | 1 | J |
| 16 | 300 | 8.3 | 19 | J | 5.9 | -26 | 167 | -5.2 | -0.1 | -2.8 | 0 | J |
| 17 | 300 | 7.6 | 22 | J | 5.7 | -21 | 155 | -4.7 | 1.2 | -2.7 | 1 | J |
| 18 | 295 | 8.0 | 28 | J | 5.5 | -19 | 133 | -3.5 | 2.9 | -3.0 | 1 | J |
| 19 | 294 | 9.5 | 0 | C | 5.7 | -21 | 146 | -4.3 | 2.1 | -2.8 | 1 | C |
| 20 | 295 | 9.1 | 0 | C | 5.6 | -25 | 147 | -4.2 | 2.0 | -3.0 | 1 | C |
| 21 | 299 | 6.5 | 46 | J | 5.3 | -10 | 150 | -4.4 | 2.3 | -1.5 | 1 | J |
| 22 | 296 | 6.7 | 49 | J | 5.2 | -4 | 140 | -3.9 | 3.1 | -1.0 | 1 | J |
| 23 | 310 | 8.3 | 51 | J | 3.5 | 24 | 136 | -2.1 | 2.3 | 0.9 | 2 | J |
| 24 | 301 | 9.1 | 48 | J | 3.6 | 18 | 162 | -2.6 | 1.0 | 0.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 301 | 8.9 | 38 | J | 3.5 | 0 | 127 | -2.0 | 2.6 | -0.6 | 1 | J |
| 2 | 293 | 10.7 | 0 | C | 5.0 | -15 | 197 | -4.3 | -1.6 | -0.8 | 2 | C |
| 3 | 286 | 10.8 | 0 | C | 4.3 | -10 | 182 | -4.1 | -0.4 | -0.7 | 1 | J |
| 4 | 293 | 10.1 | 0 | C | 4.5 | -23 | 158 | -3.8 | 0.8 | -2.1 | 1 | J |
| 5 | 286 | 9.6 | 0 | C | 5.4 | -18 | 131 | -2.8 | 2.4 | -2.6 | 3 | J |
| 6 | 293 | 9.6 | 0 | C | 5.4 | -17 | 118 | -2.4 | 3.3 | -3.3 | 1 | C |
| 7 | 289 | 9.7 | 0 | C | 5.1 | -26 | 156 | -4.2 | 0.6 | -2.8 | 0 | C |
| 8 | 305 | 7.2 | 19 | J | 5.2 | -13 | 130 | -2.0 | 1.7 | -1.9 | 4 | C |
| 9 | 305 | 6.9 | 22 | J | 4.9 | 13 | 93 | -0.2 | 4.4 | -1.6 | 1 | J |
| 10 | 313 | 7.6 | 30 | J | 4.1 | 16 | 110 | -1.2 | 3.4 | -1.1 | 2 | J |
| 11 | 321 | 7.9 | 29 | J | 4.7 | 48 | 51 | 1.9 | 3.9 | 1.4 | 1 | J |
| 12 | 300 | 10.9 | 0 | C | 5.0 | 9 | 98 | -0.6 | 4.3 | -2.0 | 1 | C |
| 13 | 307 | 11.3 | 0 | C | 5.0 | 31 | 84 | 0.4 | 4.2 | -0.2 | 3 | C |
| 14 | 307 | 11.5 | 0 | C | 4.7 | -5 | 125 | -2.2 | 2.5 | -1.9 | 3 | C |
| 15 | 309 | 11.8 | 37 | J | 4.7 | -16 | 147 | -3.4 | 1.4 | -2.1 | 2 | J |
| 16 | 302 | 12.8 | 0 | C | 5.4 | -6 | 144 | -4.1 | 2.4 | -1.8 | 2 | C |
| 17 | 296 | 11.9 | 0 | C | 4.9 | 18 | 132 | -3.0 | 3.6 | -0.0 | 1 | C |
| 18 | 310 | 11.4 | 27 | J | 4.9 | 6 | 111 | -1.6 | 4.2 | -1.0 | 1 | J |
| 19 | 303 | 10.6 | 36 | J | 4.8 | -20 | 148 | -3.7 | 1.7 | -2.2 | 1 | J |
| 20 | 303 | 10.5 | 27 | J | 5.3 | -1 | 136 | -3.7 | 3.4 | -1.0 | 1 | J |
| 21 | 299 | 10.3 | 31 | J | 5.1 | 4 | 133 | -3.5 | 3.7 | -0.5 | 1 | J |
| 22 | 299 | 10.3 | 32 | J | 4.8 | 11 | 119 | -2.2 | 4.1 | 0.0 | 1 | J |
| 23 | 297 | 10.5 | 31 | J | 4.7 | 18 | 123 | -2.4 | 3.9 | 0.6 | 1 | J |
| 24 | 295 | 11.7 | 39 | J | 4.2 | -5 | 157 | -3.6 | 1.4 | -0.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 292 | 13.5 | 52 | J | 3.8 | -12 | 160 | -3.5 | 1.1 | -1.1 | 0 | J |
| 2 | 291 | 13.7 | 55 | J | 3.8 | 0 | 163 | -3.5 | 1.0 | -0.3 | 0 | J |
| 3 | 290 | 14.1 | 50 | J | 3.7 | 2 | 157 | -3.3 | 1.4 | -0.3 | 1 | J |
| 4 | 297 | 15.1 | 24 | J | 3.6 | 28 | 113 | -1.2 | 3.3 | 0.6 | 1 | J |
| 5 | 294 | 14.0 | 29 | J | 4.0 | -14 | 178 | -3.3 | -0.2 | -0.8 | 2 | J |
| 6 | 298 | 15.5 | 0 | C | 3.4 | -2 | 197 | -2.8 | -0.8 | 0.3 | 2 | J |
| 7 | 296 | 17.8 | 24 | J | 3.4 | -11 | 202 | -2.9 | -1.3 | 0.0 | 1 | J |
| 8 | 299 | 19.8 | 28 | J | 3.4 | 0 | 208 | -2.6 | -1.2 | 0.7 | 2 | J |
| 9 | 298 | 18.7 | 21 | J | 2.7 | -79 | 267 | -0.0 | -0.7 | -0.7 | 2 | J |
| 10 | 322 | 20.6 | 0 | C | 2.9 | 20 | 120 | -0.8 | 1.5 | -0.3 | 2 | J |
| 11 | 321 | 20.1 | 0 | C | 1.8 | 17 | 182 | -1.6 | 0.2 | 0.4 | 1 | J |
| 12 | 317 | 20.2 | 0 | C | 1.5 | -3 | 182 | -1.3 | -0.1 | -0.0 | 1 | J |
| 13 | 317 | 20.9 | 0 | C | 1.5 | -36 | 179 | -1.1 | -0.4 | -0.7 | 1 | J |
| 14 | 302 | 24.1 | 13 | J | 1.9 | -22 | 174 | -1.8 | -0.2 | -0.7 | 0 | J |
| 15 | 304 | 25.9 | 16 | J | 2.5 | 20 | 75 | 0.6 | 2.3 | -0.3 | 1 | J |
| 16 | 304 | 25.5 | 15 | J | 4.6 | 2 | 34 | 3.4 | 2.1 | -0.9 | 2 | J |
| 17 | 302 | 26.9 | 13 | J | 3.4 | -3 | 41 | 2.3 | 1.8 | -1.0 | 1 | J |
| 18 | 307 | 20.9 | 16 | J | 5.5 | 10 | 60 | 2.6 | 4.5 | -0.7 | 2 | J |
| 19 | 306 | 22.0 | 17 | J | 5.0 | -20 | 48 | 2.8 | 2.5 | -2.4 | 2 | J |
| 20 | 302 | 22.1 | 14 | J | 5.5 | -22 | 100 | -0.9 | 4.3 | -3.3 | 0 | J |
| 21 | 303 | 21.3 | 20 | J | 4.6 | 0 | 99 | -0.7 | 4.2 | -1.0 | 1 | J |
| 22 | 310 | 24.7 | 24 | J | 5.3 | -30 | 107 | -1.3 | 3.5 | -3.3 | 3 | J |
| 23 | 317 | 31.1 | 26 | J | 6.8 | 53 | 353 | 3.4 | 0.5 | 4.6 | 4 | C |
| 24 | 295 | 29.6 | 57 | J | 9.4 | 47 | 329 | 5.3 | -1.7 | 7.2 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 312 | 28.2 | 0 | C | 7.1 | 23 | 289 | 2.0 | -5.2 | 4.0 | 2 | C |
| 2 | 320 | 27.7 | 0 | C | 7.6 | 1 | 284 | 1.6 | -5.9 | 1.7 | 4 | C |
| 3 | 309 | 17.8 | 0 | C | 9.9 | 12 | 297 | 4.3 | -7.6 | 4.4 | 2 | C |
| 4 | 313 | 17.7 | 0 | C | 10.2 | 11 | 293 | 3.6 | -7.3 | 4.6 | 4 | C |
| 5 | 311 | 16.3 | 0 | C | 11.1 | 19 | 298 | 4.8 | -7.0 | 6.8 | 2 | C |
| 6 | 318 | 15.5 | 0 | C | 9.3 | -19 | 268 | -0.3 | -8.3 | 1.1 | 4 | C |
| 7 | 340 | 18.3 | 0 | C | 7.1 | -21 | 239 | -3.2 | -6.0 | 0.6 | 2 | C |
| 8 | 343 | 19.2 | 0 | C | 6.7 | 1 | 297 | 2.2 | -3.6 | 2.3 | 4 | C |
| 9 | 350 | 21.2 | 0 | C | 7.7 | 30 | 319 | 4.9 | -1.4 | 5.4 | 2 | C |
| 10 | 342 | 20.9 | 0 | C | 7.8 | 31 | 315 | 4.7 | -1.6 | 5.9 | 1 | C |
| 11 | 337 | 18.3 | 0 | C | 9.0 | 27 | 310 | 5.1 | -2.7 | 6.8 | 1 | C |
| 12 | 329 | 18.3 | 0 | C | 9.0 | 23 | 317 | 5.9 | -2.5 | 5.9 | 2 | C |
| 13 | 339 | 17.6 | 0 | C | 9.1 | -26 | 274 | 0.6 | -8.5 | 1.0 | 3 | C |
| 14 | 344 | 16.6 | 0 | C | 10.3 | -42 | 210 | -6.5 | -6.7 | -3.8 | 2 | C |
| 15 | 346 | 19.7 | 0 | C | 8.3 | -34 | 225 | -4.0 | -5.3 | -1.4 | 5 | C |
| 16 | 336 | 24.9 | 0 | C | 5.9 | 19 | 295 | 2.4 | -3.6 | 3.9 | 1 | C |
| 17 | 328 | 24.5 | 0 | C | 6.3 | -9 | 277 | 0.8 | -5.9 | 1.5 | 1 | C |
| 18 | 326 | 24.0 | 0 | C | 6.5 | -15 | 277 | 0.8 | -6.2 | 0.5 | 1 | C |
| 19 | 330 | 20.0 | 0 | C | 7.8 | -19 | 271 | 0.1 | -7.7 | -0.2 | 1 | C |
| 20 | 331 | 16.7 | 0 | C | 8.6 | -18 | 266 | -0.5 | -8.6 | -0.5 | 1 | C |
| 21 | 331 | 15.7 | 0 | C | 8.6 | -13 | 270 | 0.0 | -8.6 | 0.1 | 1 | C |
| 22 | 335 | 15.8 | 0 | C | 8.5 | -17 | 271 | 0.1 | -8.2 | -0.7 | 1 | C |
| 23 | 348 | 11.7 | 0 | C | 9.2 | -12 | 291 | 3.0 | -8.1 | -0.2 | 3 | C |
| 24 | 362 | 8.5 | 0 | C | 9.3 | -14 | 297 | 3.8 | -7.9 | -0.4 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 356 | 9.6 | 0 | C | 9.1 | -7 | 298 | 4.1 | -7.9 | 0.7 | 1 | C |
| 2 | 345 | 11.6 | 0 | C | 9.2 | -9 | 300 | 4.4 | -8.0 | 0.6 | 1 | C |
| 3 | 336 | 12.8 | 0 | C | 9.6 | -9 | 301 | 4.8 | -8.2 | 1.1 | 1 | C |
| 4 | 327 | 14.7 | 0 | C | 9.7 | -6 | 299 | 4.7 | -8.1 | 2.0 | 1 | C |
| 5 | 321 | 16.6 | 0 | C | 9.7 | -21 | 311 | 5.9 | -7.6 | -0.4 | 1 | C |
| 6 | 323 | 17.3 | 0 | C | 9.8 | -19 | 308 | 5.6 | -7.9 | 0.4 | 1 | C |
| 7 | 318 | 23.3 | 0 | C | 8.6 | -10 | 310 | 5.3 | -6.2 | 1.7 | 1 | C |
| 8 | 321 | 33.1 | 0 | C | 7.4 | -25 | 310 | 4.2 | -5.8 | 0.0 | 2 | C |
| 9 | 323 | 36.1 | 0 | C | 7.8 | -3 | 312 | 5.0 | -4.9 | 2.8 | 2 | C |
| 10 | 330 | 22.3 | 0 | C | 10.9 | 7 | 313 | 7.0 | -5.4 | 5.3 | 3 | C |
| 11 | 336 | 20.6 | 0 | C | 10.9 | 41 | 346 | 7.8 | 2.3 | 6.8 | 2 | C |
| 12 | 337 | 18.3 | 0 | C | 11.4 | 33 | 317 | 6.5 | -1.8 | 8.1 | 4 | C |
| 13 | 337 | 16.9 | 0 | C | 11.9 | -11 | 292 | 4.3 | -10.2 | 3.9 | 2 | C |
| 14 | 339 | 17.1 | 0 | C | 11.9 | -3 | 293 | 4.4 | -9.4 | 5.1 | 2 | C |
| 15 | 338 | 15.8 | 0 | C | 11.8 | -1 | 289 | 3.8 | -9.6 | 5.1 | 2 | C |
| 16 | 345 | 17.2 | 0 | C | 9.5 | -31 | 261 | -1.2 | -8.7 | -0.8 | 2 | C |
| 17 | 351 | 17.1 | 0 | C | 8.4 | -23 | 282 | 1.4 | -7.4 | 0.0 | 3 | C |
| 18 | 365 | 17.2 | 0 | C | 5.6 | -59 | 60 | 0.7 | 0.4 | -2.7 | 5 | C |
| 19 | 378 | 16.8 | 0 | C | 9.3 | -34 | 86 | 0.5 | 5.4 | -6.7 | 3 | C |
| 20 | 382 | 16.2 | 0 | C | 8.1 | 28 | 74 | 1.7 | 6.6 | 1.6 | 4 | C |
| 21 | 385 | 14.9 | 0 | C | 6.8 | -47 | 199 | -2.0 | -1.2 | -2.0 | 6 | C |
| 22 | 381 | 13.9 | 0 | C | 7.7 | -9 | 281 | 1.1 | -6.2 | 0.3 | 4 | C |
| 23 | 377 | 13.3 | 0 | C | 8.0 | -10 | 268 | -0.2 | -6.3 | 0.2 | 4 | C |
| 24 | 374 | 12.6 | 0 | C | 8.1 | -1 | 287 | 2.1 | -6.8 | 1.3 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 371 | 11.1 | 0 | C | 8.0 | -10 | 290 | 2.3 | -6.3 | 0.3 | 4 | C |
| 2 | 376 | 9.7 | 0 | C | 7.6 | -16 | 285 | 1.4 | -5.5 | -0.1 | 5 | C |
| 3 | 381 | 9.5 | 0 | C | 6.9 | -6 | 310 | 3.3 | -4.0 | 0.7 | 4 | C |
| 4 | 377 | 9.0 | 0 | C | 7.7 | -3 | 314 | 5.2 | -5.2 | 1.6 | 1 | C |
| 5 | 374 | 8.9 | 0 | C | 7.2 | -12 | 252 | -1.3 | -4.1 | 0.8 | 5 | C |
| 6 | 368 | 9.4 | 0 | C | 5.9 | 4 | 300 | 2.9 | -4.2 | 2.5 | 1 | C |
| 7 | 365 | 9.5 | 0 | C | 6.8 | -13 | 301 | 3.3 | -5.5 | 1.3 | 2 | C |
| 8 | 366 | 8.8 | 0 | C | 6.8 | 5 | 310 | 4.0 | -3.8 | 2.9 | 2 | C |
| 9 | 368 | 8.5 | 0 | C | 6.4 | 17 | 334 | 5.4 | -1.2 | 3.0 | 1 | C |
| 10 | 375 | 8.1 | 0 | C | 6.5 | 15 | 307 | 3.5 | -2.9 | 3.9 | 2 | C |
| 11 | 383 | 7.1 | 0 | C | 7.0 | 17 | 285 | 1.6 | -3.9 | 5.1 | 2 | C |
| 12 | 395 | 5.4 | 0 | C | 7.5 | 21 | 350 | 6.9 | 0.6 | 2.9 | 1 | C |
| 13 | 412 | 4.2 | 0 | C | 7.7 | 21 | 356 | 7.1 | 1.0 | 2.5 | 0 | C |
| 14 | 425 | 3.9 | 0 | C | 7.9 | 21 | 347 | 7.1 | 0.1 | 3.3 | 1 | C |
| 15 | 420 | 4.2 | 0 | C | 8.1 | 23 | 343 | 7.1 | -0.3 | 3.8 | 0 | C |
| 16 | 408 | 4.2 | 0 | C | 8.1 | 22 | 342 | 7.1 | -0.7 | 3.7 | 0 | C |
| 17 | 408 | 5.4 | 0 | C | 7.2 | 28 | 339 | 5.9 | -0.8 | 3.9 | 1 | C |
| 18 | 396 | 9.3 | 0 | C | 6.7 | 25 | 335 | 5.4 | -1.4 | 3.4 | 2 | C |
| 19 | 373 | 13.3 | 0 | C | 4.6 | 10 | 39 | 3.4 | 2.9 | -0.1 | 1 | C |
| 20 | 376 | 10.3 | 0 | C | 6.0 | 18 | 354 | 5.6 | -0.1 | 1.9 | 1 | C |
| 21 | 386 | 7.0 | 0 | C | 6.8 | 20 | 346 | 6.2 | -0.9 | 2.6 | 1 | C |
| 22 | 389 | 7.9 | 0 | C | 6.1 | 14 | 331 | 5.1 | -2.4 | 2.0 | 1 | C |
| 23 | 386 | 7.1 | 0 | C | 6.3 | 15 | 343 | 5.8 | -1.5 | 1.9 | 1 | C |
| 24 | 384 | 7.2 | 0 | C | 6.4 | 20 | 330 | 5.1 | -2.5 | 2.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 7.3 | 0 | C | 6.5 | 9 | 350 | 6.3 | -0.9 | 1.2 | 1 | C |
| 2 | 364 | 7.0 | 0 | C | 6.5 | 2 | 352 | 6.4 | -0.8 | 0.4 | 0 | C |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 360 | 5.1 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 360 | 5.1 | 0 | C | 6.8 | 14 | 337 | 6.0 | -1.7 | 2.5 | 1 | C |
| 6 | 366 | 6.0 | 0 | C | 6.7 | 14 | 341 | 6.1 | -1.2 | 2.3 | 1 | C |
| 7 | 367 | 5.9 | 0 | C | 6.4 | 13 | 352 | 6.1 | -0.1 | 1.7 | 0 | C |
| 8 | 365 | 5.8 | 0 | C | 6.2 | 11 | 353 | 6.0 | 0.0 | 1.4 | 1 | C |
| 9 | 371 | 5.2 | 0 | C | 6.2 | 14 | 342 | 5.7 | -0.7 | 2.2 | 1 | C |
| 10 | 355 | 3.4 | 0 | C | 6.6 | 11 | 332 | 5.7 | -1.8 | 2.7 | 1 | C |
| 11 | 384 | 4.4 | 0 | C | 5.7 | 14 | 342 | 5.2 | -0.6 | 2.1 | 1 | C |
| 12 | 352 | 4.5 | 0 | C | 5.9 | 9 | 332 | 5.0 | -1.7 | 2.3 | 1 | C |
| 13 | 396 | 3.4 | 0 | C | 5.5 | 11 | 327 | 4.3 | -1.9 | 2.4 | 1 | C |
| 14 | 334 | 8.5 | 0 | C | 3.9 | -38 | 287 | 0.4 | -1.9 | -0.3 | 3 | C |
| 15 | 310 | 11.1 | 0 | C | 3.2 | -40 | 288 | 0.6 | -2.3 | -0.5 | 2 | C |
| 16 | 306 | 12.9 | 0 | C | 2.0 | 35 | 327 | 1.3 | -0.3 | 1.3 | 1 | C |
| 17 | 299 | 15.4 | 0 | C | 1.3 | 33 | 328 | 0.7 | -0.2 | 0.6 | 1 | C |
| 18 | 297 | 16.3 | 0 | C | 1.2 | -3 | 323 | 0.6 | -0.4 | 0.1 | 1 | C |
| 19 | 295 | 16.2 | 0 | C | 1.9 | -39 | 330 | 1.2 | -1.0 | -0.8 | 1 | C |
| 20 | 292 | 13.8 | 0 | C | 4.4 | 3 | 343 | 4.0 | -1.1 | 0.6 | 1 | C |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 290 | 14.9 | 0 | C | 4.5 | 4 | 347 | 4.2 | -0.9 | 0.5 | 1 | C |
| 23 | 277 | 18.3 | 0 | C | 5.0 | -15 | 346 | 4.7 | -1.4 | -1.1 | 0 | C |
| 24 | 265 | 18.3 | 0 | C | 5.7 | -13 | 345 | 5.4 | -1.7 | -1.0 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 268 | 18.8 | 0 | C | 4.2 | -13 | 344 | 3.9 | -1.3 | -0.6 | 1 | C |
| 2 | 278 | 25.4 | 0 | C | 2.8 | -6 | 347 | 2.6 | -0.7 | -0.1 | 1 | C |
| 3 | 296 | 30.3 | 15 | J | 2.8 | 1 | 340 | 2.5 | -0.9 | 0.3 | 1 | C |
| 4 | 297 | 31.3 | 14 | J | 3.6 | 23 | 345 | 3.1 | -0.3 | 1.5 | 1 | C |
| 5 | 274 | 34.4 | 0 | C | 4.4 | 23 | 5 | 3.9 | 0.9 | 1.4 | 1 | C |
| 6 | 290 | 17.6 | 22 | J | 6.1 | 15 | 336 | 5.1 | -1.3 | 2.3 | 2 | C |
| 7 | 310 | 19.0 | 39 | J | 8.4 | 7 | 291 | 2.5 | -5.1 | 3.8 | 5 | C |
| 8 | 309 | 12.0 | 48 | J | 9.6 | 9 | 274 | 0.6 | -7.0 | 6.0 | 2 | C |
| 9 | 276 | 3.5 | 69 | J | 9.4 | 10 | 286 | 2.6 | -6.5 | 6.2 | 1 | C |
| 10 | 319 | 14.5 | 39 | J | 4.8 | 27 | 233 | -1.1 | -0.7 | 1.6 | 4 | C |
| 11 | 299 | 12.3 | 35 | J | 5.2 | 17 | 332 | 3.6 | -0.9 | 2.1 | 3 | C |
| 12 | 296 | 10.3 | 39 | J | 4.8 | 32 | 302 | 1.6 | -1.1 | 3.0 | 3 | C |
| 13 | 308 | 24.3 | 22 | J | 3.1 | 36 | 302 | 0.8 | -0.5 | 1.7 | 2 | C |
| 14 | 308 | 24.1 | 17 | J | 8.5 | 12 | 289 | 2.1 | -4.5 | 4.3 | 5 | C |
| 15 | 302 | 13.1 | 14 | J | 7.6 | 48 | 338 | 4.6 | 1.0 | 5.7 | 2 | C |
| 16 | 323 | 10.3 | 82 | J | 8.1 | 35 | 323 | 4.9 | -1.4 | 5.5 | 3 | C |
| 17 | 338 | 5.0 | 39 | J | 9.7 | 42 | 345 | 6.6 | 0.8 | 6.4 | 2 | J |
| 18 | 340 | 5.7 | 51 | J | 8.3 | 40 | 29 | 5.2 | 4.4 | 3.7 | 3 | J |
| 19 | 334 | 6.3 | 52 | J | 8.2 | 39 | 352 | 6.0 | 0.6 | 4.9 | 2 | J |
| 20 | 345 | 8.2 | 0 | C | 7.0 | 40 | 331 | 4.5 | -1.3 | 4.8 | 2 | J |
| 21 | 337 | 6.3 | 52 | J | 7.5 | 45 | 293 | 1.9 | -3.2 | 5.7 | 3 | J |
| 22 | 340 | 6.6 | 56 | J | 6.8 | 41 | 303 | 2.7 | -3.1 | 5.0 | 2 | J |
| 23 | 341 | 6.2 | 38 | J | 6.4 | 30 | 315 | 3.7 | -3.0 | 3.7 | 2 | J |
| 24 | 356 | 7.2 | 0 | C | 5.9 | 11 | 324 | 4.4 | -2.9 | 1.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 352 | 6.8 | 80 | J | 6.0 | 7 | 334 | 5.2 | -2.3 | 1.3 | 1 | J |
| 2 | 352 | 6.4 | 60 | J | 6.1 | 7 | 316 | 4.2 | -3.8 | 1.7 | 1 | J |
| 3 | 355 | 7.1 | 69 | J | 6.5 | 11 | 315 | 4.4 | -3.8 | 2.4 | 2 | J |
| 4 | 348 | 6.9 | 84 | J | 6.6 | 6 | 321 | 4.9 | -3.5 | 2.0 | 1 | J |
| 5 | 337 | 6.4 | 0 | C | 7.6 | 5 | 318 | 5.5 | -4.3 | 2.6 | 1 | J |
| 6 | 339 | 6.2 | 0 | C | 7.1 | 8 | 325 | 5.7 | -3.1 | 2.6 | 1 | J |
| 7 | 340 | 5.6 | 31 | J | 7.4 | -5 | 325 | 5.0 | -3.3 | 1.2 | 4 | J |
| 8 | 330 | 8.9 | 38 | J | 5.7 | 13 | 149 | -4.6 | 3.0 | -0.4 | 1 | J |
| 9 | 330 | 9.0 | 43 | J | 5.9 | 13 | 155 | -5.0 | 2.7 | -0.2 | 1 | J |
| 10 | 334 | 8.7 | 27 | J | 5.8 | 20 | 145 | -4.3 | 3.6 | -0.1 | 2 | J |
| 11 | 337 | 8.8 | 18 | J | 6.1 | 18 | 137 | -4.2 | 4.3 | -0.7 | 1 | J |
| 12 | 329 | 9.0 | 25 | J | 6.2 | 13 | 141 | -4.6 | 3.9 | -1.0 | 1 | J |
| 13 | 329 | 9.1 | 28 | J | 6.3 | 14 | 141 | -4.6 | 3.9 | -0.8 | 1 | J |
| 14 | 324 | 9.4 | 34 | J | 6.1 | 16 | 144 | -4.7 | 3.8 | -0.3 | 1 | J |
| 15 | 339 | 9.8 | 39 | J | 5.9 | -12 | 253 | -1.1 | -3.4 | 1.0 | 5 | J |
| 16 | 333 | 9.9 | 27 | J | 6.0 | -15 | 226 | -3.5 | -3.8 | 0.4 | 3 | J |
| 17 | 327 | 9.3 | 31 | J | 5.9 | -25 | 237 | -2.4 | -4.2 | -0.5 | 3 | J |
| 18 | 313 | 9.1 | 43 | J | 5.8 | -8 | 184 | -5.4 | -0.6 | -0.6 | 2 | J |
| 19 | 313 | 9.9 | 41 | J | 5.9 | -15 | 157 | -4.8 | 1.5 | -1.9 | 2 | J |
| 20 | 318 | 10.8 | 44 | J | 6.6 | -29 | 147 | -4.6 | 2.1 | -3.7 | 2 | J |
| 21 | 322 | 12.5 | 29 | J | 6.3 | -30 | 150 | -4.5 | 1.9 | -3.5 | 2 | J |
| 22 | 329 | 13.0 | 22 | J | 7.0 | -44 | 130 | -3.2 | 2.7 | -5.5 | 1 | J |
| 23 | 330 | 14.3 | 21 | J | 6.6 | -53 | 136 | -2.7 | 1.6 | -5.5 | 2 | J |
| 24 | 335 | 19.0 | 17 | J | 6.5 | -50 | 191 | -0.9 | -0.4 | -1.0 | 6 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 339 | 21.3 | 18 | J | 7.5 | 46 | 288 | 1.6 | -3.6 | 6.4 | 1 | J |
| 2 | 341 | 21.9 | 27 | J | 8.1 | -4 | 301 | 3.3 | -5.5 | 1.0 | 5 | J |
| 3 | 355 | 28.4 | 30 | J | 8.6 | -57 | 66 | 1.6 | 1.6 | -6.8 | 5 | J |
| 4 | 359 | 32.0 | 28 | J | 9.5 | -23 | 96 | -0.8 | 6.1 | -5.7 | 5 | J |
| 5 | 361 | 28.3 | 53 | J | 10.8 | 55 | 110 | -2.1 | 8.6 | 5.7 | 2 | J |
| 6 | 376 | 11.7 | 99 | J | 13.4 | -5 | 112 | -4.1 | 8.8 | -5.4 | 8 | J |
| 7 | 393 | 7.4 | 95 | J | 13.9 | -41 | 80 | 1.1 | 2.9 | -8.1 | 11 | J |
| 8 | 380 | 7.1 | 0 | C | 13.3 | 10 | 118 | -6.1 | 11.0 | -3.9 | 1 | C |
| 9 | 386 | 6.3 | 0 | C | 14.0 | 12 | 119 | -6.5 | 11.2 | -4.0 | 3 | C |
| 10 | 415 | 3.5 | 104 | J | 14.9 | 24 | 109 | -4.4 | 13.9 | -2.2 | 2 | J |
| 11 | 385 | 4.5 | 71 | J | 14.5 | 23 | 113 | -5.1 | 13.0 | -2.2 | 3 | J |
| 12 | 377 | 10.7 | 0 | C | 14.0 | -10 | 118 | -5.9 | 8.0 | -8.0 | 5 | C |
| 13 | 372 | 15.9 | 0 | C | 14.0 | -69 | 128 | -3.1 | -3.7 | -13.0 | 2 | C |
| 14 | 376 | 15.2 | 30 | J | 15.3 | -83 | 158 | -1.7 | -7.2 | -13.3 | 1 | J |
| 15 | 379 | 11.1 | 32 | J | 16.7 | -78 | 123 | -1.8 | -5.1 | -15.4 | 3 | J |
| 16 | 450 | 5.9 | 140 | J | 17.0 | -24 | 121 | -6.7 | 7.5 | -10.0 | 9 | J |
| 17 | 501 | 3.6 | 215 | J | 15.0 | 1 | 127 | -8.7 | 10.8 | -4.3 | 4 | J |
| 18 | 490 | 3.7 | 226 | J | 15.2 | 3 | 125 | -8.2 | 11.3 | -3.3 | 5 | J |
| 19 | 490 | 3.4 | 226 | J | 15.7 | 7 | 124 | -8.5 | 12.6 | -1.9 | 3 | J |
| 20 | 497 | 3.4 | 197 | J | 15.9 | 10 | 126 | -9.0 | 12.7 | -0.6 | 3 | J |
| 21 | 514 | 3.0 | 203 | J | 14.9 | 2 | 123 | -7.5 | 11.3 | -2.1 | 6 | J |
| 22 | 513 | 2.6 | 162 | J | 14.3 | 11 | 129 | -8.5 | 10.8 | 0.4 | 4 | J |
| 23 | 522 | 2.8 | 205 | J | 12.4 | 1 | 144 | -8.3 | 6.0 | -1.0 | 7 | J |
| 24 | 535 | 3.2 | 273 | J | 11.4 | -18 | 150 | -8.6 | 4.2 | -4.2 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 553 | 3.6 | 278 | J | 11.5 | -17 | 167 | -8.0 | 1.2 | -2.9 | 7 | J |
| 2 | 523 | 2.8 | 205 | J | 12.6 | 1 | 119 | -5.8 | 10.1 | -2.4 | 4 | J |
| 3 | 506 | 3.5 | 0 | C | 10.8 | -17 | 112 | -3.8 | 8.0 | -5.7 | 2 | J |
| 4 | 557 | 2.2 | 163 | J | 10.3 | -20 | 137 | -6.1 | 4.3 | -4.8 | 5 | J |
| 5 | 519 | 2.3 | 144 | J | 9.9 | -7 | 122 | -4.8 | 6.7 | -4.1 | 4 | J |
| 6 | 501 | 3.1 | 0 | C | 9.5 | -13 | 131 | -5.9 | 5.2 | -4.9 | 2 | J |
| 7 | 508 | 2.2 | 159 | J | 9.3 | -10 | 128 | -5.6 | 5.5 | -4.9 | 1 | J |
| 8 | 483 | 2.7 | 0 | C | 8.9 | -12 | 132 | -5.5 | 4.3 | -4.7 | 3 | J |
| 9 | 487 | 2.4 | 157 | J | 8.4 | -8 | 128 | -5.1 | 4.9 | -4.6 | 1 | J |
| 10 | 487 | 2.0 | 107 | J | 8.2 | -14 | 128 | -4.8 | 4.0 | -5.1 | 1 | J |
| 11 | 468 | 2.5 | 0 | C | 8.7 | -16 | 121 | -4.2 | 4.4 | -5.7 | 2 | C |
| 12 | 451 | 2.4 | 0 | C | 8.8 | 2 | 109 | -2.9 | 7.0 | -4.3 | 1 | C |
| 13 | 443 | 2.7 | 0 | C | 8.6 | -7 | 108 | -2.5 | 6.1 | -5.2 | 1 | C |
| 14 | 429 | 3.8 | 66 | J | 7.2 | -31 | 107 | -1.6 | 2.8 | -5.4 | 3 | J |
| 15 | 425 | 4.3 | 71 | J | 6.7 | -15 | 109 | -1.7 | 3.7 | -3.6 | 4 | J |
| 16 | 422 | 4.3 | 84 | J | 6.5 | -21 | 120 | -2.8 | 3.5 | -4.1 | 2 | J |
| 17 | 403 | 5.2 | 0 | C | 6.3 | -23 | 128 | -3.3 | 3.1 | -3.8 | 1 | C |
| 18 | 413 | 5.0 | 0 | C | 6.3 | -7 | 111 | -2.0 | 4.5 | -2.4 | 3 | C |
| 19 | 421 | 4.7 | 0 | C | 5.9 | 2 | 99 | -0.9 | 5.4 | -1.4 | 2 | C |
| 20 | 421 | 4.7 | 0 | C | 5.6 | -12 | 118 | -2.4 | 4.0 | -2.2 | 2 | C |
| 21 | 414 | 4.8 | 0 | C | 5.2 | -7 | 130 | -3.2 | 3.6 | -1.4 | 2 | J |
| 22 | 416 | 3.9 | 32 | J | 5.3 | -19 | 132 | -3.3 | 3.2 | -2.4 | 1 | J |
| 23 | 403 | 4.3 | 60 | J | 5.4 | -8 | 148 | -4.2 | 2.4 | -1.2 | 2 | J |
| 24 | 418 | 4.9 | 24 | J | 5.5 | -1 | 110 | -1.9 | 5.0 | -1.1 | 0 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 409 | 5.6 | 37 | J | 5.4 | 15 | 129 | -3.2 | 4.1 | 0.4 | 1 | J |
| 2 | 408 | 5.7 | 31 | J | 5.4 | 6 | 122 | -2.8 | 4.5 | -0.6 | 1 | J |
| 3 | 419 | 8.0 | 56 | J | 5.9 | -14 | 144 | -3.2 | 1.9 | -1.6 | 4 | J |
| 4 | 384 | 9.0 | 60 | J | 6.9 | -4 | 149 | -4.9 | 2.6 | -1.4 | 4 | J |
| 5 | 394 | 10.8 | 50 | J | 7.3 | 14 | 142 | -4.4 | 3.7 | -0.1 | 4 | J |
| 6 | 416 | 11.3 | 29 | J | 8.1 | -65 | 307 | 1.9 | -5.3 | -5.0 | 3 | J |
| 7 | 418 | 16.3 | 26 | J | 8.0 | -50 | 22 | 4.6 | -1.2 | -6.1 | 2 | J |
| 8 | 418 | 15.2 | 33 | J | 6.7 | -48 | 69 | 1.2 | 0.7 | -4.8 | 4 | J |
| 9 | 410 | 12.6 | 62 | J | 7.1 | 74 | 173 | -1.5 | 2.9 | 4.2 | 5 | J |
| 10 | 405 | 22.3 | 0 | C | 4.1 | 80 | 257 | -0.1 | 1.4 | 3.1 | 3 | C |
| 11 | 406 | 23.4 | 0 | C | 4.2 | -3 | 198 | -1.4 | -0.4 | 0.2 | 4 | C |
| 12 | 399 | 13.5 | 0 | C | 9.5 | 51 | 321 | 4.5 | 0.9 | 8.0 | 2 | C |
| 13 | 416 | 7.9 | 0 | C | 9.9 | 39 | 328 | 6.2 | -0.0 | 7.2 | 2 | C |
| 14 | 436 | 6.1 | 74 | J | 10.3 | 18 | 322 | 6.7 | -3.1 | 5.1 | 5 | J |
| 15 | 451 | 4.2 | 83 | J | 9.0 | -23 | 312 | 4.3 | -5.5 | -0.1 | 6 | J |
| 16 | 464 | 3.8 | 125 | J | 7.7 | -30 | 321 | 3.8 | -4.0 | -1.2 | 5 | J |
| 17 | 471 | 3.8 | 111 | J | 8.4 | 29 | 351 | 6.6 | 0.5 | 3.8 | 4 | J |
| 18 | 477 | 5.0 | 137 | J | 7.9 | -37 | 309 | 3.9 | -6.1 | -2.8 | 1 | J |
| 19 | 464 | 4.2 | 147 | J | 7.7 | -27 | 323 | 5.1 | -4.7 | -2.0 | 3 | J |
| 20 | 463 | 3.7 | 127 | J | 7.7 | -12 | 324 | 5.9 | -4.5 | -0.4 | 2 | J |
| 21 | 471 | 3.6 | 112 | J | 7.7 | -5 | 316 | 5.4 | -5.2 | 0.5 | 2 | J |
| 22 | 443 | 3.9 | 138 | J | 7.6 | -24 | 316 | 5.0 | -5.4 | -2.0 | 1 | J |
| 23 | 453 | 3.9 | 112 | J | 7.4 | -35 | 310 | 3.7 | -5.2 | -3.1 | 2 | J |
| 24 | 415 | 4.8 | 43 | J | 7.1 | -43 | 318 | 3.8 | -4.3 | -4.0 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 386 | 6.6 | 39 | J | 7.0 | -41 | 328 | 4.3 | -3.6 | -3.7 | 2 | J |
| 2 | 371 | 9.9 | 27 | J | 6.5 | -52 | 334 | 3.5 | -2.9 | -4.4 | 1 | J |
| 3 | 373 | 15.6 | 24 | J | 5.0 | -55 | 321 | 1.6 | -2.2 | -2.5 | 4 | J |
| 4 | 377 | 24.8 | 22 | J | 1.6 | 63 | 96 | -0.0 | 0.6 | 0.5 | 1 | J |
| 5 | 376 | 22.3 | 23 | J | 1.8 | 63 | 147 | -0.5 | 0.7 | 0.9 | 2 | J |
| 6 | 375 | 23.2 | 20 | J | 3.2 | 79 | 267 | -0.0 | 0.8 | 2.9 | 1 | J |
| 7 | 375 | 23.2 | 20 | J | 4.0 | 3 | 59 | 1.0 | 1.6 | -0.7 | 3 | J |
| 8 | 369 | 18.4 | 0 | C | 4.4 | -69 | 228 | -0.9 | -2.6 | -2.4 | 3 | J |
| 9 | 377 | 19.2 | 32 | J | 2.9 | -26 | 72 | 0.2 | 0.4 | -0.7 | 3 | J |
| 10 | 389 | 20.2 | 38 | J | 1.8 | -20 | 81 | 0.2 | 0.9 | -1.3 | 1 | J |
| 11 | 382 | 19.8 | 0 | C | 2.4 | -3 | 75 | 0.4 | 1.2 | -0.9 | 1 | C |
| 12 | 376 | 19.3 | 0 | C | 3.1 | 13 | 20 | 2.2 | 1.0 | -0.0 | 2 | C |
| 13 | 365 | 20.8 | 0 | C | 5.8 | 0 | 131 | -1.6 | 1.6 | -1.0 | 5 | C |
| 14 | 405 | 21.1 | 0 | C | 3.4 | 71 | 74 | 0.3 | 2.6 | 2.2 | 0 | C |
| 15 | 405 | 21.1 | 0 | C | 5.8 | 25 | 335 | 4.0 | -0.7 | 2.7 | 3 | C |
| 16 | 421 | 15.1 | 81 | J | 5.7 | -4 | 340 | 5.2 | -1.9 | 0.5 | 2 | J |
| 17 | 427 | 11.8 | 69 | J | 6.5 | 11 | 336 | 5.6 | -1.9 | 2.1 | 2 | J |
| 18 | 448 | 15.4 | 94 | J | 6.5 | -2 | 320 | 4.9 | -4.0 | 1.2 | 2 | J |
| 19 | 441 | 16.1 | 48 | J | 6.3 | -11 | 319 | 4.5 | -4.1 | 0.0 | 2 | J |
| 20 | 410 | 18.4 | 0 | C | 7.0 | -11 | 330 | 5.7 | -3.5 | -0.4 | 2 | C |
| 21 | 393 | 15.7 | 0 | C | 7.4 | -6 | 345 | 7.1 | -2.0 | -0.4 | 1 | C |
| 22 | 411 | 10.0 | 0 | C | 8.0 | -12 | 352 | 7.3 | -1.4 | -1.4 | 2 | C |
| 23 | 399 | 11.6 | 60 | J | 6.2 | -20 | 341 | 4.7 | -1.9 | -1.5 | 3 | J |
| 24 | 408 | 10.3 | 44 | J | 7.1 | -9 | 339 | 6.5 | -2.7 | -0.6 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 402 | 12.3 | 54 | J | 6.9 | -5 | 332 | 6.0 | -3.2 | 0.1 | 1 | J |
| 2 | 402 | 12.3 | 62 | J | 6.1 | -4 | 341 | 5.4 | -1.9 | 0.1 | 1 | C |
| 3 | 386 | 15.8 | 0 | C | 6.5 | -15 | 336 | 5.3 | -2.7 | -0.8 | 2 | C |
| 4 | 387 | 20.0 | 0 | C | 6.8 | -22 | 339 | 5.8 | -3.0 | -1.6 | 1 | C |
| 5 | 384 | 21.5 | 0 | C | 6.2 | -23 | 316 | 1.1 | -1.2 | -0.2 | 6 | C |
| 6 | 380 | 23.8 | 0 | C | 5.4 | 73 | 13 | 0.8 | 1.3 | 2.2 | 6 | J |
| 7 | 411 | 29.3 | 0 | C | 7.8 | 36 | 308 | 3.4 | -1.8 | 5.5 | 4 | C |
| 8 | 420 | 21.0 | 0 | C | 10.3 | 84 | 51 | 0.4 | 3.4 | 4.8 | 8 | J |
| 9 | 423 | 11.4 | 156 | J | 9.9 | -11 | 326 | 6.7 | -4.8 | 1.1 | 5 | C |
| 10 | 450 | 7.1 | 134 | J | 12.7 | 10 | 311 | 7.8 | -6.3 | 6.8 | 3 | J |
| 11 | 477 | 6.0 | 0 | C | 12.9 | 26 | 318 | 8.6 | -3.2 | 8.9 | 2 | C |
| 12 | 490 | 5.7 | 0 | C | 12.7 | 27 | 315 | 7.9 | -3.5 | 9.2 | 1 | C |
| 13 | 496 | 7.0 | 0 | C | 11.5 | 33 | 306 | 5.3 | -3.0 | 8.8 | 4 | C |
| 14 | 470 | 8.9 | 232 | J | 8.1 | -33 | 341 | 5.3 | -3.4 | -2.2 | 4 | J |
| 15 | 489 | 9.7 | 0 | C | 11.3 | -15 | 290 | 3.2 | -8.8 | 1.9 | 5 | C |
| 16 | 486 | 9.0 | 0 | C | 11.8 | 21 | 317 | 7.3 | -4.6 | 6.4 | 3 | C |
| 17 | 493 | 7.7 | 0 | C | 10.7 | 16 | 303 | 4.5 | -5.5 | 4.8 | 6 | C |
| 18 | 518 | 5.0 | 78 | J | 6.9 | 22 | 323 | 4.2 | -2.3 | 3.1 | 4 | J |
| 19 | 510 | 5.4 | 95 | J | 7.3 | -2 | 324 | 4.2 | -3.0 | 0.7 | 5 | J |
| 20 | 513 | 5.7 | 92 | J | 6.8 | 11 | 331 | 4.1 | -2.0 | 1.5 | 5 | J |
| 21 | 509 | 6.1 | 92 | J | 7.1 | -40 | 329 | 4.1 | -3.3 | -3.4 | 3 | J |
| 22 | 497 | 6.1 | 0 | C | 6.6 | 6 | 324 | 4.5 | -3.1 | 1.2 | 3 | C |
| 23 | 541 | 5.7 | 101 | J | 6.3 | -26 | 302 | 2.8 | -4.9 | -1.7 | 2 | J |
| 24 | 557 | 6.2 | 79 | J | 6.3 | -26 | 279 | 0.9 | -5.8 | -1.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 554 | 6.6 | 78 | J | 6.3 | -34 | 278 | 0.7 | -5.6 | -2.2 | 1 | J |
| 2 | 533 | 6.4 | 93 | J | 6.8 | -6 | 300 | 2.8 | -4.8 | 0.6 | 4 | J |
| 3 | 492 | 6.2 | 0 | C | 7.2 | 6 | 338 | 6.0 | -2.1 | 1.4 | 3 | C |
| 4 | 514 | 8.2 | 119 | J | 5.7 | -10 | 318 | 4.1 | -3.8 | 0.3 | 1 | J |
| 5 | 529 | 8.3 | 112 | J | 5.5 | -4 | 302 | 2.3 | -3.5 | 1.1 | 3 | J |
| 6 | 522 | 8.6 | 125 | J | 5.7 | -11 | 305 | 2.5 | -3.6 | 0.8 | 4 | J |
| 7 | 533 | 8.3 | 115 | J | 6.3 | -47 | 328 | 2.7 | -3.1 | -2.2 | 4 | J |
| 8 | 531 | 7.3 | 134 | J | 6.7 | 24 | 318 | 3.9 | -1.8 | 3.8 | 3 | J |
| 9 | 553 | 8.9 | 216 | J | 4.3 | -12 | 25 | 3.3 | 0.9 | -1.5 | 3 | J |
| 10 | 564 | 7.8 | 0 | C | 6.8 | -13 | 287 | 1.5 | -4.7 | 1.7 | 3 | C |
| 11 | 595 | 7.2 | 0 | C | 6.7 | 8 | 309 | 3.1 | -2.8 | 2.7 | 3 | C |
| 12 | 617 | 6.2 | 0 | C | 6.9 | 52 | 335 | 3.3 | 1.3 | 4.7 | 3 | C |
| 13 | 621 | 5.8 | 0 | C | 6.6 | 22 | 329 | 2.2 | -0.5 | 1.6 | 5 | C |
| 14 | 643 | 4.9 | 177 | J | 6.0 | 39 | 312 | 2.8 | -1.0 | 4.4 | 3 | J |
| 15 | 623 | 5.0 | 138 | J | 5.7 | -3 | 309 | 3.3 | -3.8 | 1.7 | 2 | J |
| 16 | 640 | 4.6 | 167 | J | 5.5 | -23 | 324 | 3.5 | -3.1 | -0.6 | 3 | J |
| 17 | 643 | 3.9 | 127 | J | 4.6 | 7 | 6 | 3.6 | 0.5 | 0.3 | 3 | J |
| 18 | 640 | 4.4 | 148 | J | 4.5 | 24 | 1 | 3.6 | 0.6 | 1.5 | 2 | J |
| 19 | 635 | 4.3 | 106 | J | 4.9 | 19 | 331 | 3.8 | -1.6 | 2.0 | 2 | J |
| 20 | 639 | 4.4 | 97 | J | 4.7 | 7 | 316 | 3.1 | -2.7 | 1.2 | 2 | J |
| 21 | 612 | 4.8 | 0 | C | 5.0 | 10 | 329 | 4.0 | -2.2 | 1.3 | 2 | J |
| 22 | 635 | 4.7 | 126 | J | 5.1 | 32 | 312 | 2.5 | -2.3 | 2.8 | 2 | J |
| 23 | 634 | 4.4 | 133 | J | 5.5 | 50 | 328 | 2.5 | -0.9 | 3.7 | 3 | J |
| 24 | 612 | 4.4 | 136 | J | 5.0 | 20 | 358 | 4.2 | 0.2 | 1.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 627 | 5.6 | 138 | J | 5.9 | 4 | 354 | 5.2 | -0.5 | 0.5 | 3 | J |
| 2 | 646 | 5.6 | 198 | J | 6.4 | -2 | 309 | 3.6 | -4.3 | 0.9 | 3 | J |
| 3 | 634 | 5.2 | 208 | J | 5.4 | -9 | 298 | 2.1 | -4.0 | 0.5 | 3 | J |
| 4 | 627 | 5.8 | 173 | J | 4.4 | 37 | 283 | 0.8 | -2.3 | 3.6 | 0 | J |
| 5 | 630 | 5.7 | 131 | J | 4.9 | -17 | 314 | 2.9 | -3.2 | -0.0 | 2 | J |
| 6 | 626 | 6.6 | 137 | J | 4.9 | 5 | 305 | 2.2 | -2.7 | 1.7 | 3 | J |
| 7 | 614 | 7.4 | 125 | J | 5.0 | -31 | 302 | 2.2 | -4.2 | -0.5 | 1 | J |
| 8 | 612 | 7.5 | 105 | J | 5.2 | -31 | 271 | 0.1 | -5.0 | -0.0 | 1 | J |
| 9 | 589 | 6.2 | 91 | J | 6.9 | -7 | 278 | 0.9 | -5.9 | 2.8 | 2 | J |
| 10 | 554 | 6.7 | 0 | C | 7.0 | -19 | 276 | 0.7 | -6.6 | 1.7 | 1 | J |
| 11 | 551 | 8.4 | 0 | C | 7.1 | -24 | 314 | 4.2 | -5.2 | 0.2 | 3 | J |
| 12 | 551 | 8.4 | 0 | C | 7.3 | -33 | 293 | 2.2 | -6.4 | -0.2 | 3 | J |
| 13 | 551 | 8.8 | 0 | C | 7.5 | -42 | 276 | 0.6 | -7.2 | -1.3 | 1 | J |
| 14 | 542 | 8.4 | 91 | L | 8.1 | -27 | 255 | -1.8 | -7.6 | 0.3 | 2 | J |
| 15 | 534 | 9.9 | 91 | L | 8.4 | -20 | 250 | -2.6 | -7.5 | 0.9 | 2 | J |
| 16 | 522 | 10.4 | 91 | L | 8.2 | -38 | 262 | -0.9 | -7.8 | -1.8 | 2 | C |
| 17 | 517 | 13.8 | 0 | C | 8.0 | -29 | 268 | -0.2 | -7.8 | -1.0 | 1 | C |
| 18 | 506 | 15.5 | 0 | C | 7.8 | -26 | 278 | 1.0 | -7.3 | -0.8 | 2 | C |
| 19 | 497 | 17.3 | 0 | C | 7.8 | -29 | 301 | 3.4 | -6.6 | -2.0 | 1 | C |
| 20 | 495 | 17.6 | 0 | C | 7.6 | -42 | 282 | 1.1 | -6.4 | -3.5 | 1 | C |
| 21 | 497 | 19.3 | 0 | C | 7.9 | -52 | 281 | 0.9 | -5.8 | -4.9 | 1 | C |
| 22 | 497 | 21.5 | 0 | C | 8.3 | -66 | 280 | 0.6 | -4.7 | -6.6 | 1 | C |
| 23 | 484 | 18.7 | 0 | C | 10.0 | -29 | 291 | 2.4 | -6.8 | -2.5 | 6 | C |
| 24 | 461 | 11.8 | 0 | C | 12.2 | -33 | 279 | 1.6 | -11.0 | -4.6 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 462 | 5.8 | 0 | C | 13.8 | -46 | 277 | 1.1 | -11.3 | -7.6 | 1 | C |
| 2 | 491 | 7.7 | 0 | C | 14.0 | 8 | 108 | -4.2 | 13.3 | -1.2 | 0 | C |
| 3 | 491 | 7.7 | 0 | C | 13.8 | 12 | 101 | -2.6 | 13.3 | -1.0 | 2 | C |
| 4 | 460 | 8.1 | 0 | C | 12.1 | 1 | 108 | -3.7 | 10.5 | -3.6 | 3 | C |
| 5 | 506 | 18.6 | 0 | C | 10.3 | -30 | 115 | -3.7 | 5.3 | -7.6 | 3 | C |
| 6 | 470 | 12.3 | 0 | C | 13.3 | -38 | 114 | -4.2 | 5.1 | -11.4 | 1 | C |
| 7 | 467 | 7.1 | 0 | C | 13.1 | -32 | 98 | -1.5 | 6.4 | -11.3 | 1 | C |
| 8 | 474 | 6.3 | 0 | C | 12.9 | -23 | 90 | 0.0 | 7.6 | -10.4 | 1 | C |
| 9 | 475 | 6.3 | 0 | C | 12.3 | -10 | 92 | -0.4 | 8.9 | -8.1 | 3 | C |
| 10 | 478 | 7.9 | 0 | C | 11.9 | 2 | 99 | -1.8 | 9.9 | -6.0 | 2 | C |
| 11 | 484 | 10.6 | 0 | C | 11.8 | -18 | 92 | -0.4 | 7.2 | -9.2 | 1 | C |
| 12 | 474 | 11.5 | 0 | C | 11.0 | -16 | 96 | -1.0 | 7.1 | -8.2 | 0 | C |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 466 | 11.6 | 0 | C | 10.4 | 44 | 306 | 2.8 | -1.1 | 6.0 | 7 | C |
| 15 | 466 | 11.6 | 0 | C | 9.7 | 31 | 278 | 1.0 | -4.4 | 7.4 | 4 | C |
| 16 | 447 | 11.6 | 0 | C | 8.7 | 21 | 14 | 5.3 | 2.1 | 1.4 | 6 | C |
| 17 | 416 | 10.4 | 0 | C | 7.7 | -15 | 15 | 6.7 | 1.0 | -2.4 | 2 | C |
| 18 | 414 | 8.3 | 0 | C | 7.5 | 33 | 294 | 2.0 | -3.2 | 4.4 | 5 | C |
| 19 | 451 | 7.3 | 0 | C | 7.5 | 71 | 315 | 1.4 | 0.3 | 5.8 | 4 | C |
| 20 | 417 | 7.2 | 0 | C | 7.2 | -9 | 351 | 6.2 | -1.2 | -0.7 | 3 | C |
| 21 | 413 | 7.2 | 0 | C | 7.0 | 21 | 352 | 5.5 | -0.3 | 2.2 | 3 | C |
| 22 | 399 | 6.5 | 0 | C | 7.0 | 6 | 351 | 6.4 | -0.9 | 0.9 | 2 | C |
| 23 | 400 | 6.4 | 0 | C | 7.2 | 10 | 335 | 6.4 | -2.7 | 1.7 | 1 | C |
| 24 | 395 | 6.4 | 0 | C | 7.2 | 16 | 343 | 6.3 | -1.5 | 2.3 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 420 | 7.4 | 0 | C | 7.3 | 69 | 341 | 2.1 | 0.5 | 5.8 | 3 | C |
| 2 | 422 | 7.7 | 0 | C | 8.3 | 47 | 325 | 4.2 | -1.5 | 6.1 | 3 | C |
| 3 | 413 | 7.9 | 0 | C | 8.4 | 37 | 300 | 3.2 | -3.9 | 6.2 | 2 | C |
| 4 | 413 | 8.1 | 0 | C | 7.2 | 30 | 343 | 5.3 | -0.5 | 3.5 | 3 | C |
| 5 | 430 | 8.4 | 0 | C | 7.0 | 7 | 23 | 5.6 | 2.5 | -0.2 | 3 | C |
| 6 | 453 | 9.5 | 0 | C | 8.2 | 44 | 359 | 4.0 | 1.6 | 3.5 | 5 | C |
| 7 | 452 | 9.9 | 0 | C | 7.9 | 9 | 312 | 3.8 | -3.2 | 2.7 | 5 | C |
| 8 | 448 | 9.1 | 0 | C | 9.3 | 7 | 323 | 5.5 | -3.1 | 2.9 | 5 | C |
| 9 | 445 | 7.6 | 0 | C | 10.2 | 42 | 325 | 6.0 | -0.0 | 7.9 | 2 | C |
| 10 | 464 | 6.1 | 0 | C | 11.7 | 53 | 322 | 5.6 | 1.4 | 10.1 | 0 | C |
| 11 | 476 | 5.1 | 0 | C | 10.6 | 44 | 343 | 6.1 | 1.9 | 6.2 | 5 | C |
| 12 | 490 | 3.8 | 0 | C | 10.9 | 61 | 359 | 5.1 | 5.1 | 7.9 | 2 | C |
| 13 | 523 | 5.0 | 0 | C | 9.1 | 5 | 323 | 5.7 | -3.3 | 2.9 | 5 | C |
| 14 | 514 | 5.9 | 0 | C | 10.4 | 1 | 322 | 7.1 | -4.8 | 2.9 | 5 | C |
| 15 | 506 | 5.5 | 0 | C | 10.0 | 43 | 29 | 6.3 | 6.2 | 4.4 | 2 | C |
| 16 | 500 | 5.0 | 0 | C | 8.3 | 39 | 54 | 3.5 | 6.4 | 2.3 | 3 | C |
| 17 | 506 | 5.7 | 0 | C | 8.0 | 38 | 10 | 5.5 | 2.5 | 3.6 | 3 | C |
| 18 | 510 | 5.8 | 0 | C | 9.1 | 29 | 342 | 6.9 | -0.8 | 4.4 | 4 | C |
| 19 | 498 | 5.6 | 0 | C | 9.0 | 6 | 326 | 7.0 | -4.3 | 2.1 | 2 | C |
| 20 | 505 | 4.8 | 0 | C | 8.2 | 24 | 314 | 4.6 | -3.8 | 4.0 | 4 | C |
| 21 | 516 | 3.7 | 0 | C | 8.6 | 66 | 335 | 2.8 | 0.2 | 7.1 | 3 | C |
| 22 | 559 | 4.1 | 0 | C | 7.9 | 63 | 68 | 1.2 | 3.9 | 5.4 | 4 | C |
| 23 | 519 | 4.0 | 0 | C | 8.2 | 57 | 80 | 0.7 | 4.9 | 5.2 | 4 | C |
| 24 | 457 | 4.0 | 0 | C | 8.7 | 73 | 76 | 0.6 | 4.0 | 7.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 452 | 4.4 | 0 | C | 8.1 | 74 | 346 | 1.8 | 0.9 | 6.4 | 4 | C |
| 2 | 481 | 3.4 | 0 | C | 8.1 | 45 | 320 | 4.2 | -2.1 | 6.2 | 2 | C |
| 3 | 474 | 3.1 | 0 | C | 8.4 | 54 | 325 | 4.0 | -0.8 | 7.1 | 1 | C |
| 4 | 467 | 3.6 | 0 | C | 8.3 | 34 | 300 | 3.2 | -3.8 | 6.0 | 2 | C |
| 5 | 493 | 4.0 | 0 | C | 7.8 | 42 | 317 | 3.9 | -1.6 | 5.9 | 2 | C |
| 6 | 487 | 4.5 | 0 | C | 7.4 | 27 | 307 | 3.6 | -3.1 | 4.9 | 2 | C |
| 7 | 486 | 4.4 | 0 | C | 7.2 | 18 | 320 | 4.8 | -2.6 | 3.7 | 2 | C |
| 8 | 474 | 4.7 | 0 | C | 7.2 | 12 | 332 | 5.6 | -1.9 | 2.7 | 2 | C |
| 9 | 477 | 4.7 | 0 | C | 6.7 | 12 | 329 | 4.6 | -1.7 | 2.4 | 4 | C |
| 10 | 500 | 4.0 | 0 | C | 6.9 | 9 | 308 | 3.9 | -3.7 | 3.6 | 2 | C |
| 11 | 503 | 3.8 | 0 | C | 6.8 | 32 | 300 | 2.6 | -1.9 | 5.2 | 2 | C |
| 12 | 510 | 3.6 | 0 | C | 7.0 | -7 | 295 | 2.6 | -5.0 | 2.4 | 3 | C |
| 13 | 518 | 3.7 | 0 | C | 6.6 | 26 | 310 | 3.3 | -2.0 | 4.2 | 3 | C |
| 14 | 518 | 3.8 | 0 | C | 6.5 | -20 | 297 | 2.5 | -5.2 | 0.8 | 2 | C |
| 15 | 512 | 3.9 | 0 | C | 6.4 | 25 | 308 | 3.2 | -2.6 | 4.0 | 2 | C |
| 16 | 502 | 4.0 | 0 | C | 5.7 | 6 | 297 | 2.3 | -4.0 | 2.4 | 2 | C |
| 17 | 478 | 4.6 | 0 | C | 5.4 | -26 | 297 | 1.5 | -3.3 | -0.4 | 4 | C |
| 18 | 455 | 5.2 | 0 | C | 5.6 | 7 | 331 | 4.0 | -1.9 | 1.3 | 2 | C |
| 19 | 484 | 4.4 | 0 | C | 5.6 | 42 | 340 | 3.4 | -0.3 | 3.5 | 2 | C |
| 20 | 480 | 4.4 | 0 | C | 5.4 | 26 | 315 | 3.0 | -2.5 | 2.8 | 2 | C |
| 21 | 443 | 5.1 | 0 | C | 5.4 | 22 | 342 | 4.5 | -1.0 | 2.1 | 1 | C |
| 22 | 459 | 5.3 | 0 | C | 5.3 | 23 | 310 | 2.1 | -2.2 | 1.8 | 3 | C |
| 23 | 478 | 5.0 | 0 | C | 5.3 | 28 | 276 | 0.3 | -2.9 | 2.3 | 3 | C |
| 24 | 485 | 4.7 | 0 | C | 5.1 | 60 | 317 | 0.9 | -0.4 | 2.3 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 482 | 4.9 | 0 | C | 5.1 | 22 | 293 | 1.2 | -2.4 | 1.7 | 4 | C |
| 2 | 468 | 5.0 | 0 | C | 5.0 | -23 | 334 | 3.3 | -1.9 | -1.1 | 2 | C |
| 3 | 469 | 5.0 | 0 | C | 4.6 | 44 | 342 | 2.0 | -0.1 | 2.2 | 3 | C |
| 4 | 470 | 4.8 | 0 | C | 4.6 | 29 | 292 | 1.0 | -1.9 | 2.2 | 3 | C |
| 5 | 469 | 4.6 | 0 | C | 4.7 | 27 | 296 | 1.2 | -1.7 | 2.1 | 3 | C |
| 6 | 463 | 4.6 | 0 | C | 4.8 | 5 | 288 | 1.1 | -2.9 | 1.7 | 3 | C |
| 7 | 451 | 5.0 | 0 | C | 4.7 | 40 | 316 | 2.0 | -0.6 | 3.0 | 2 | C |
| 8 | 443 | 5.4 | 0 | C | 4.9 | 75 | 320 | 0.9 | 1.6 | 4.1 | 2 | C |
| 9 | 452 | 5.0 | 0 | C | 4.7 | 57 | 291 | 0.7 | 0.1 | 3.4 | 3 | C |
| 10 | 460 | 4.6 | 0 | C | 5.0 | 39 | 87 | 0.2 | 4.4 | 0.4 | 2 | C |
| 11 | 446 | 4.8 | 0 | C | 4.9 | 4 | 341 | 3.2 | -0.8 | 0.8 | 3 | C |
| 12 | 447 | 4.9 | 0 | C | 4.9 | 59 | 79 | 0.5 | 4.2 | 2.1 | 1 | C |
| 13 | 457 | 5.1 | 0 | C | 5.2 | 68 | 110 | -0.6 | 3.8 | 2.9 | 2 | C |
| 14 | 454 | 5.4 | 0 | C | 5.6 | 69 | 270 | -0.0 | 0.6 | 3.7 | 4 | J |
| 15 | 448 | 5.4 | 0 | C | 5.1 | 0 | 269 | -0.1 | -3.2 | 1.7 | 3 | J |
| 16 | 443 | 5.3 | 0 | C | 4.9 | 6 | 284 | 0.8 | -2.8 | 1.7 | 3 | J |
| 17 | 446 | 5.1 | 0 | C | 4.7 | -12 | 297 | 1.6 | -3.1 | 0.4 | 3 | J |
| 18 | 448 | 4.9 | 0 | C | 4.6 | -14 | 261 | -0.7 | -4.4 | 0.3 | 1 | J |
| 19 | 449 | 4.7 | 0 | C | 4.3 | -22 | 284 | 0.6 | -2.6 | -0.3 | 3 | J |
| 20 | 499 | 8.9 | 0 | C | 4.6 | 5 | 301 | 1.8 | -2.9 | 1.0 | 3 | J |
| 21 | 538 | 14.2 | 0 | C | 9.7 | 31 | 251 | -1.6 | -3.9 | 3.9 | 6 | C |
| 22 | 524 | 15.2 | 0 | C | 9.1 | -7 | 275 | 0.4 | -4.7 | 0.3 | 7 | C |
| 23 | 507 | 14.1 | 0 | C | 7.8 | 35 | 281 | 0.9 | -3.9 | 4.0 | 5 | C |
| 24 | 496 | 12.4 | 0 | C | 8.5 | 34 | 285 | 1.6 | -4.9 | 5.0 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 485 | 10.7 | 0 | C | 8.1 | -24 | 290 | 2.2 | -6.7 | -1.7 | 3 | C |
| 2 | 475 | 9.4 | 0 | C | 8.3 | -22 | 290 | 2.3 | -6.8 | -1.2 | 3 | C |
| 3 | 467 | 8.3 | 0 | C | 8.0 | -1 | 278 | 1.1 | -7.2 | 1.9 | 3 | C |
| 4 | 467 | 8.0 | 0 | C | 7.0 | -59 | 314 | 2.3 | -4.1 | -4.5 | 3 | J |
| 5 |  |  |  |  | 7.2 | -35 | 292 | 2.1 | -6.4 | -1.7 | 2 | J |
| 6 | 479 | 7.9 | 63 | J | 7.3 | -36 | 295 | 2.5 | -6.6 | -1.6 | 1 | J |
| 7 | 470 | 8.8 | 45 | J | 7.0 | -46 | 321 | 3.7 | -4.9 | -2.9 | 2 | J |
| 8 | 465 | 9.4 | 41 | J | 7.9 | -38 | 48 | 3.1 | 1.1 | -4.9 | 5 | C |
| 9 | 485 | 3.7 | 47 | J | 8.0 | -4 | 83 | 0.9 | 6.1 | -4.4 | 2 | J |
| 10 | 478 | 2.8 | 42 | J | 8.0 | 2 | 85 | 0.7 | 6.7 | -4.0 | 1 | C |
| 11 | 351 | 4.8 | 0 | C | 7.2 | 10 | 109 | -2.1 | 5.8 | -2.4 | 3 | J |
| 12 | 487 | 3.5 | 41 | J | 6.6 | 2 | 112 | -2.4 | 5.2 | -3.1 | 2 | J |
| 13 | 473 | 3.5 | 42 | J | 6.0 | -3 | 102 | -1.2 | 4.7 | -3.2 | 1 | J |
| 14 | 486 | 2.9 | 41 | J | 5.6 | -7 | 113 | -2.1 | 3.9 | -3.0 | 2 | J |
| 15 | 481 | 1.6 | 39 | J | 5.9 | -2 | 132 | -3.9 | 3.7 | -2.1 | 1 | J |
| 16 | 454 | 3.2 | 44 | J | 5.0 | 13 | 86 | 0.3 | 4.7 | -0.9 | 2 | J |
| 17 | 431 | 3.0 | 27 | J | 5.5 | -6 | 110 | -1.8 | 4.5 | -2.4 | 1 | J |
| 18 | 433 | 3.2 | 27 | J | 5.9 | -1 | 100 | -1.0 | 5.5 | -1.9 | 1 | C |
| 19 | 423 | 2.7 | 32 | J | 6.3 | 4 | 92 | -0.2 | 6.2 | -1.3 | 1 | J |
| 20 | 436 | 1.0 | 30 | J | 6.6 | -5 | 103 | -1.5 | 6.1 | -2.1 | 1 | J |
| 21 | 261 | 5.9 | 0 | C | 6.6 | -5 | 101 | -1.3 | 6.2 | -1.9 | 0 | J |
| 22 | 334 | 6.3 | 0 | C | 5.7 | -8 | 96 | -0.6 | 5.2 | -1.8 | 1 | C |
| 23 | 358 | 6.0 | 0 | C | 4.4 | -15 | 86 | 0.3 | 3.8 | -1.8 | 1 | C |
| 24 | 391 | 4.8 | 0 | C | 4.7 | 80 | 151 | -0.6 | 1.1 | 3.8 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 406 | 4.7 | 0 | C | 4.9 | 59 | 258 | -0.5 | -1.5 | 4.4 | 1 | C |
| 2 | 404 | 5.2 | 0 | C | 4.6 | 87 | 206 | -0.1 | 0.6 | 2.8 | 3 | C |
| 3 | 396 | 6.1 | 0 | C | 4.4 | 40 | 268 | -0.1 | -2.1 | 3.1 | 2 | C |
| 4 | 386 | 5.9 | 0 | C | 4.8 | 83 | 297 | 0.3 | 1.0 | 4.6 | 1 | C |
| 5 | 386 | 5.6 | 0 | C | 5.3 | 61 | 326 | 1.4 | 0.3 | 3.3 | 4 | C |
| 6 | 393 | 5.6 | 0 | C | 5.2 | 58 | 111 | -0.9 | 3.9 | 2.7 | 2 | J |
| 7 | 415 | 5.0 | 26 | J | 4.8 | 60 | 91 | -0.0 | 4.0 | 2.5 | 1 | J |
| 8 | 412 | 4.7 | 22 | J | 4.8 | 73 | 61 | 0.6 | 2.8 | 2.8 | 3 | J |
| 9 | 415 | 3.9 | 24 | J | 4.6 | 52 | 293 | 1.0 | -0.3 | 4.1 | 2 | J |
| 10 | 402 | 3.7 | 23 | J | 4.6 | 41 | 292 | 1.3 | -1.0 | 4.2 | 1 | J |
| 11 | 393 | 3.7 | 26 | J | 4.6 | 20 | 300 | 2.1 | -2.2 | 3.2 | 1 | J |
| 12 | 396 | 4.0 | 36 | J | 4.5 | 39 | 324 | 2.7 | -0.2 | 3.3 | 1 | J |
| 13 | 377 | 4.3 | 0 | C | 4.4 | 33 | 316 | 2.5 | -0.9 | 3.2 | 1 | J |
| 14 | 377 | 3.6 | 24 | J | 4.5 | 39 | 321 | 2.4 | -0.4 | 3.2 | 2 | C |
| 15 | 369 | 3.4 | 19 | J | 4.5 | 6 | 323 | 3.5 | -2.1 | 1.6 | 1 | J |
| 16 | 390 | 3.6 | 0 | C | 4.5 | 26 | 338 | 3.2 | -0.5 | 2.1 | 2 | J |
| 17 | 390 | 3.6 | 0 | C | 4.5 | 34 | 337 | 3.3 | -0.4 | 2.7 | 1 | J |
| 18 | 375 | 3.8 | 0 | C | 4.4 | 37 | 353 | 3.4 | 0.4 | 2.6 | 1 | J |
| 19 | 372 | 3.6 | 27 | J | 4.1 | 45 | 359 | 2.6 | 0.7 | 2.5 | 2 | J |
| 20 | 369 | 3.6 | 29 | J | 4.1 | 35 | 325 | 2.5 | -1.2 | 2.5 | 2 | J |
| 21 | 369 | 4.5 | 0 | C | 4.1 | 8 | 333 | 3.2 | -1.5 | 0.8 | 2 | J |
| 22 | 375 | 4.8 | 29 | J | 4.0 | 14 | 292 | 1.3 | -3.0 | 1.4 | 2 | J |
| 23 | 389 | 4.8 | 34 | J | 3.8 | 50 | 257 | -0.4 | -1.5 | 2.6 | 2 | J |
| 24 | 363 | 5.0 | 0 | C | 4.3 | 20 | 309 | 1.9 | -2.2 | 1.6 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 374 | 18.7 | 0 | C | 2.6 | 47 | 82 | 0.2 | 1.9 | 1.3 | 1 | J |
| 2 | 437 | 56.6 | 68 | J | 8.6 | 47 | 109 | -1.8 | 6.6 | 4.7 | 3 | J |
| 3 | 367 | 86.8 | 0 | C | 10.7 | 28 | 115 | -2.4 | 5.8 | 1.5 | 9 | J |
| 4 | 446 | 66.6 | 105 | J | 10.6 | -19 | 144 | -5.7 | 3.1 | -3.6 | 8 | J |
| 5 | 435 | 46.3 | 122 | J | 14.4 | 34 | 119 | -5.3 | 11.5 | 3.3 | 6 | J |
| 6 | 458 | 34.9 | 130 | J | 14.8 | 7 | 93 | -0.6 | 11.8 | -3.8 | 9 | J |
| 7 | 443 | 39.8 | 123 | J | 8.4 | -12 | 33 | 3.1 | 1.4 | -1.6 | 8 | J |
| 8 | 419 | 32.2 | 96 | J | 12.8 | -45 | 349 | 8.8 | -6.0 | -6.9 | 1 | J |
| 9 | 438 | 45.3 | 0 | C | 9.3 | 5 | 190 | -9.0 | -1.0 | 1.5 | 1 | C |
| 10 | 423 | 40.0 | 0 | C | 10.6 | -19 | 220 | -6.2 | -5.8 | 0.5 | 6 | C |
| 11 | 398 | 29.4 | 0 | C | 12.4 | -66 | 294 | 1.9 | -9.2 | -6.4 | 5 | C |
| 12 | 411 | 23.5 | 53 | J | 12.5 | 12 | 279 | 1.9 | -8.6 | 8.4 | 3 | J |
| 13 | 418 | 21.3 | 41 | J | 13.6 | -7 | 278 | 1.8 | -12.1 | 5.4 | 2 | J |
| 14 | 413 | 18.2 | 42 | J | 13.3 | -8 | 281 | 2.5 | -12.0 | 4.6 | 2 | J |
| 15 | 399 | 16.7 | 43 | J | 13.2 | -5 | 277 | 1.5 | -11.8 | 4.7 | 3 | J |
| 16 | 398 | 19.5 | 40 | J | 12.0 | 2 | 277 | 1.5 | -10.7 | 5.2 | 1 | J |
| 17 | 388 | 19.2 | 68 | J | 10.3 | -33 | 111 | -2.7 | 4.9 | -7.2 | 5 | J |
| 18 | 383 | 9.4 | 58 | J | 11.2 | -32 | 120 | -4.5 | 5.7 | -7.8 | 4 | J |
| 19 | 383 | 8.8 | 59 | J | 10.6 | -27 | 111 | -3.3 | 7.0 | -6.8 | 2 | J |
| 20 | 383 | 8.3 | 53 | J | 11.2 | -14 | 95 | -0.9 | 9.5 | -4.8 | 3 | J |
| 21 | 380 | 7.6 | 49 | J | 11.2 | 13 | 91 | -0.2 | 11.0 | 0.4 | 2 | J |
| 22 | 376 | 6.6 | 47 | J | 10.9 | 20 | 94 | -0.7 | 10.6 | 1.9 | 1 | J |
| 23 | 372 | 6.8 | 50 | J | 10.6 | 15 | 102 | -2.1 | 10.1 | 1.0 | 2 | J |
| 24 | 360 | 8.3 | 66 | J | 10.2 | 24 | 132 | -6.0 | 7.2 | 2.8 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 349 | 7.0 | 0 | C | 6.7 | -26 | 173 | -5.8 | 0.2 | -2.9 | 2 | C |
| 2 | 337 | 5.4 | 18 | J | 6.7 | -18 | 178 | -6.1 | -0.2 | -2.0 | 2 | C |
| 3 | 341 | 5.6 | 36 | J | 6.3 | -9 | 146 | -5.1 | 3.1 | -1.8 | 1 | J |
| 4 | 346 | 6.6 | 0 | C | 6.2 | 8 | 137 | -4.4 | 4.2 | -0.5 | 1 | J |
| 5 | 336 | 5.3 | 19 | J | 6.1 | 18 | 157 | -5.2 | 2.7 | 0.9 | 2 | J |
| 6 | 344 | 6.1 | 0 | C | 6.1 | 27 | 157 | -4.9 | 3.0 | 1.6 | 1 | J |
| 7 | 331 | 5.0 | 15 | J | 5.7 | -9 | 183 | -5.2 | -0.6 | -0.6 | 2 | J |
| 8 | 336 | 5.1 | 15 | J | 5.9 | -13 | 169 | -5.5 | 0.3 | -1.7 | 1 | J |
| 9 | 333 | 5.4 | 17 | J | 6.1 | -6 | 162 | -5.7 | 1.2 | -1.5 | 1 | J |
| 10 | 336 | 5.0 | 15 | J | 5.8 | -3 | 151 | -5.0 | 2.2 | -1.7 | 1 | J |
| 11 | 332 | 4.8 | 17 | J | 6.2 | 4 | 150 | -5.3 | 2.8 | -1.3 | 1 | J |
| 12 | 333 | 5.1 | 18 | J | 6.4 | 3 | 152 | -5.6 | 2.7 | -1.3 | 1 | J |
| 13 | 331 | 6.8 | 21 | J | 6.0 | 3 | 142 | -4.6 | 3.3 | -1.6 | 1 | J |
| 14 | 335 | 6.7 | 16 | J | 6.0 | 1 | 135 | -4.2 | 3.7 | -1.9 | 1 | J |
| 15 | 336 | 6.6 | 16 | J | 5.7 | -6 | 133 | -3.9 | 3.5 | -2.4 | 1 | J |
| 16 | 332 | 7.2 | 15 | J | 5.7 | -2 | 128 | -3.5 | 4.0 | -2.0 | 1 | J |
| 17 | 321 | 6.4 | 15 | J | 5.9 | -8 | 133 | -3.8 | 3.5 | -2.2 | 2 | J |
| 18 | 323 | 6.4 | 17 | J | 5.8 | -10 | 134 | -3.9 | 3.5 | -2.2 | 1 | J |
| 19 | 326 | 7.0 | 20 | J | 5.8 | -13 | 126 | -3.1 | 3.8 | -2.3 | 2 | J |
| 20 | 325 | 6.1 | 20 | J | 5.9 | -5 | 139 | -4.2 | 3.5 | -1.3 | 2 | J |
| 21 | 324 | 7.0 | 16 | J | 5.7 | -14 | 134 | -3.6 | 3.4 | -2.0 | 2 | J |
| 22 | 331 | 7.7 | 17 | J | 5.6 | 2 | 113 | -2.2 | 5.1 | -0.7 | 1 | J |
| 23 | 328 | 7.5 | 15 | J | 5.7 | -6 | 111 | -2.0 | 4.9 | -1.4 | 1 | J |
| 24 | 311 | 7.5 | 20 | J | 5.8 | -7 | 128 | -3.5 | 4.3 | -1.4 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 342 | 12.3 | 49 | J | 6.4 | 40 | 79 | 0.9 | 5.2 | 3.0 | 2 | J |
| 2 | 347 | 12.3 | 38 | J | 7.6 | -16 | 128 | -4.3 | 5.0 | -3.1 | 2 | J |
| 3 | 340 | 13.5 | 33 | J | 7.2 | -21 | 136 | -4.7 | 3.7 | -3.6 | 2 | J |
| 4 | 339 | 14.8 | 35 | J | 8.3 | -32 | 141 | -5.4 | 2.8 | -5.5 | 1 | J |
| 5 | 341 | 15.7 | 41 | J | 9.5 | -43 | 144 | -5.4 | 1.4 | -7.3 | 2 | J |
| 6 | 336 | 15.2 | 38 | J | 9.8 | -47 | 163 | -6.3 | -1.1 | -7.2 | 2 | J |
| 7 | 331 | 14.9 | 35 | J | 9.9 | -40 | 144 | -5.9 | 1.0 | -7.5 | 2 | J |
| 8 | 318 | 15.2 | 41 | J | 9.0 | -38 | 176 | -6.8 | -2.2 | -4.8 | 3 | J |
| 9 | 314 | 16.3 | 0 | C | 8.9 | -21 | 166 | -8.0 | 0.1 | -3.7 | 1 | C |
| 10 | | | | | | | | | | | | |
| 11 | 314 | 20.1 | 47 | J | | | | | | | | |
| 12 | 331 | 20.9 | 48 | J | | | | | | | | |
| 13 | 335 | 21.4 | 55 | J | 8.2 | 11 | 150 | -6.4 | 3.9 | -0.6 | 3 | C |
| 14 | 336 | 21.8 | 57 | J | 8.4 | 1 | 159 | -7.2 | 2.4 | -1.2 | 3 | C |
| 15 | 338 | 22.3 | 60 | J | 8.2 | -5 | 134 | -5.2 | 4.5 | -2.9 | 3 | C |
| 16 | 318 | 27.0 | 0 | C | 7.4 | 47 | 149 | -3.7 | 3.9 | 3.4 | 3 | C |
| 17 | 310 | 24.1 | 0 | C | 5.5 | 70 | 119 | -0.8 | 3.0 | 3.9 | 2 | C |
| 18 | 310 | 30.9 | 0 | C | 6.7 | -4 | 143 | -4.5 | 3.1 | -1.4 | 3 | C |
| 19 | 315 | 21.4 | 0 | C | 11.0 | -31 | 148 | -6.7 | 2.9 | -5.6 | 6 | C |
| 20 | 374 | 18.8 | 0 | C | 12.9 | -84 | 329 | 1.0 | -2.8 | -10.2 | 7 | C |
| 21 | 381 | 23.2 | 0 | C | 17.9 | -22 | 146 | -7.9 | 4.5 | -4.8 | 16 | C |
| 22 | 460 | 29.3 | 0 | C | 10.8 | -13 | 297 | 1.5 | -3.0 | -0.3 | 9 | C |
| 23 | 608 | 30.6 | 0 | C | 7.1 | -8 | 347 | 3.8 | -0.9 | -0.4 | 5 | C |
| 24 | 574 | 17.6 | 0 | C | 9.3 | 56 | 108 | -0.7 | 2.6 | 2.9 | 8 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 353 | 5.1 | 0 | C | 4.3 | 53 | 302 | 1.2 | -1.3 | 3.3 | 2 | C |
| 357 | 4.9 | 0 | C | 3.8 | 56 | 334 | 1.2 | -0.1 | 2.0 | 3 | C |
| 359 | 5.0 | 0 | C | 3.7 | 3 | 333 | 2.6 | -1.2 | 0.5 | 2 | C |
| 357 | 5.1 | 0 | C | 3.7 | -1 | 313 | 2.1 | -2.2 | 0.7 | 2 | C |
| 355 | 5.5 | 0 | C | 4.0 | 22 | 342 | 2.5 | -0.3 | 1.2 | 3 | C |
| 355 | 5.8 | 0 | C | 4.3 | 37 | 6 | 2.9 | 1.2 | 1.9 | 2 | C |
| 352 | 5.9 | 0 | C | 4.5 | 29 | 12 | 2.5 | 1.1 | 1.0 | 3 | C |
| 353 | 5.8 | 0 | C | 4.9 | 15 | 64 | 2.0 | 4.1 | -1.0 | 1 | C |
| 350 | 5.6 | 0 | C | 4.4 | -37 | 345 | 3.2 | -2.1 | -1.7 | 1 | C |
| 350 | 5.6 | 0 | C | 4.5 | -25 | 334 | 3.4 | -2.4 | -0.6 | 1 | C |
| 347 | 5.7 | 0 | C | 4.3 | 4 | 343 | 3.3 | -0.7 | 0.8 | 2 | C |
| 356 | 5.7 | 0 | C | 4.3 | 3 | 298 | 1.8 | -2.8 | 2.0 | 0 | C |
| 346 | 4.9 | 35 | J | 4.4 | -35 | 346 | 3.3 | -1.9 | -1.6 | 2 | J |
| 346 | 5.1 | 28 | J | 4.4 | -25 | 327 | 2.3 | -1.9 | -0.4 | 3 | J |
| 336 | 5.3 | 20 | J | 4.8 | -11 | 5 | 4.5 | -0.0 | -1.0 | 1 | J |
| 335 | 6.4 | 19 | J | 5.6 | -14 | 3 | 5.2 | -0.3 | -1.3 | 1 | J |
| 343 | 6.9 | 30 | J | 6.0 | -18 | 335 | 4.7 | -2.7 | -0.8 | 2 | J |
| 362 | 7.9 | 45 | J | 6.4 | -11 | 293 | 2.3 | -5.4 | 0.6 | 2 | J |
| 385 | 8.1 | 38 | J | 6.8 | 10 | 270 | -0.0 | -5.9 | 2.8 | 2 | J |
| 380 | 9.5 | 23 | J | 7.2 | 9 | 281 | 1.3 | -6.1 | 2.5 | 3 | J |
| 368 | 8.9 | 30 | J | 7.0 | -1 | 301 | 3.2 | -5.3 | 1.0 | 3 | J |
| 370 | 8.6 | 31 | J | 6.5 | -10 | 311 | 3.9 | -4.7 | -0.2 | 2 | J |
| 336 | 17.5 | 46 | J | 2.9 | -62 | 1 | 0.9 | -0.3 | -1.7 | 2 | J |
| 379 | 14.5 | 24 | J | 6.0 | -67 | 34 | 1.8 | 0.3 | -5.3 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 370 | 8.7 | 50 | J | 10.3 | 24 | 119 | -4.5 | 8.7 | 2.5 | 2 | J |
| 369 | 8.3 | 49 | J | 9.7 | 21 | 120 | -4.4 | 8.2 | 1.6 | 2 | J |
| 352 | 9.5 | 0 | C | 9.5 | 22 | 123 | -4.6 | 7.7 | 1.4 | 2 | J |
| 366 | 9.4 | 48 | J | 9.6 | 19 | 105 | -2.3 | 9.2 | 0.2 | 1 | J |
| 353 | 12.5 | 130 | J | 9.4 | 10 | 133 | -6.0 | 6.6 | -0.9 | 2 | J |
| 359 | 13.4 | 91 | J | 8.5 | 7 | 137 | -6.1 | 5.6 | -1.4 | 2 | J |
| 361 | 11.4 | 66 | J | 9.4 | 9 | 122 | -4.8 | 7.5 | -2.3 | 2 | J |
| 355 | 11.9 | 60 | J | 9.4 | -10 | 127 | -5.2 | 5.2 | -4.8 | 3 | J |
| 350 | 12.9 | 61 | J | 9.8 | 6 | 119 | -4.6 | 7.6 | -3.5 | 2 | J |
| 344 | 13.2 | 68 | J | 11.0 | 36 | 126 | -4.8 | 8.9 | 1.5 | 4 | J |
| 336 | 13.1 | 0 | C | 9.1 | 70 | 146 | -1.9 | 4.3 | 4.5 | 6 | C |
| 339 | 9.1 | 0 | C | 10.1 | 8 | 77 | 2.2 | 8.9 | -4.0 | 2 | C |
| 341 | 8.8 | 0 | C | 9.2 | 24 | 76 | 2.0 | 8.8 | -0.9 | 1 | C |
| 353 | 11.7 | 57 | J | 5.7 | 14 | 215 | -3.2 | -1.5 | 1.9 | 4 | J |
| 359 | 12.6 | 55 | J | 5.1 | -27 | 210 | -3.9 | -3.0 | -1.0 | 1 | J |
| 351 | 14.2 | 0 | C | 6.1 | -66 | 273 | 0.1 | -4.1 | -3.7 | 2 | C |
| 353 | 15.3 | 0 | C | 5.4 | -16 | 117 | -2.2 | 3.6 | -2.8 | 2 | C |
| 359 | 13.5 | 35 | J | 5.4 | -16 | 110 | -1.7 | 4.0 | -2.8 | 2 | J |
| 360 | 12.7 | 34 | J | 6.0 | 3 | 84 | 0.6 | 5.4 | -1.2 | 2 | J |
| 352 | 10.7 | 27 | J | 6.6 | -26 | 121 | -2.5 | 3.6 | -3.3 | 4 | J |
| 369 | 8.1 | 19 | J | 7.3 | -33 | 141 | -4.7 | 3.0 | -4.6 | 1 | J |
| 363 | 7.8 | 23 | J | 6.9 | -32 | 145 | -4.7 | 2.6 | -4.1 | 2 | J |
| 363 | 7.3 | 24 | J | 6.6 | -14 | 136 | -4.1 | 3.7 | -2.1 | 3 | J |
| 344 | 7.6 | 0 | C | 6.7 | 9 | 147 | -5.3 | 3.6 | 0.4 | 1 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 311 | 7.7 | 21 | J | 5.9 | -6 | 126 | -3.4 | 4.5 | -1.5 | 1 | J |
| 320 | 7.8 | 14 | J | 6.1 | 9 | 100 | -1.0 | 5.9 | -0.4 | 1 | J |
| 323 | 8.1 | 14 | J | 6.3 | 9 | 98 | -0.9 | 6.1 | -0.6 | 1 | J |
| 310 | 9.1 | 0 | C | 6.3 | 3 | 97 | -0.8 | 6.0 | -1.6 | 0 | J |
| 328 | 9.5 | 15 | J | 7.0 | -10 | 91 | -0.1 | 6.0 | -3.6 | 1 | J |
| 327 | 9.6 | 16 | J | 7.0 | -8 | 95 | -0.6 | 5.7 | -3.6 | 2 | J |
| 311 | 11.6 | 0 | C | 7.2 | 42 | 87 | 0.2 | 6.9 | 1.8 | 1 | C |
| 324 | 10.9 | 16 | J | 7.3 | 35 | 105 | -1.5 | 7.0 | 0.8 | 2 | J |
| 318 | 11.2 | 21 | J | 7.1 | -4 | 106 | -1.8 | 5.2 | -3.7 | 3 | J |
| 330 | 11.0 | 15 | J | 7.8 | 20 | 61 | 3.3 | 6.4 | -1.1 | 3 | J |
| 324 | 10.8 | 17 | J | 7.8 | 31 | 81 | 1.0 | 7.1 | -0.1 | 3 | J |
| 317 | 9.5 | 19 | J | 7.7 | 19 | 108 | -2.1 | 6.7 | -1.4 | 3 | J |
| 317 | 13.0 | 16 | J | 7.0 | 25 | 90 | 0.0 | 6.8 | -0.7 | 1 | J |
| 311 | 9.9 | 19 | J | 8.0 | -6 | 123 | -4.2 | 5.3 | -3.8 | 2 | J |
| 318 | 9.8 | 16 | J | 7.5 | 1 | 123 | -2.8 | 4.0 | -1.8 | 5 | J |
| 307 | 9.6 | 25 | J | 6.5 | -10 | 142 | -3.7 | 2.3 | -1.9 | 5 | J |
| 322 | 5.8 | 17 | J | 7.1 | -16 | 143 | -5.4 | 3.1 | -3.2 | 1 | J |
| 329 | 4.4 | 22 | J | 7.3 | -16 | 137 | -5.1 | 4.0 | -3.4 | 1 | J |
| 324 | 4.2 | 23 | J | 7.3 | -31 | 156 | -5.6 | 1.5 | -4.2 | 1 | J |
| 334 | 5.3 | 25 | J | 6.7 | -20 | 138 | -4.4 | 3.4 | -3.0 | 2 | J |
| 330 | 6.3 | 33 | J | 6.1 | -1 | 124 | -2.7 | 3.9 | -0.8 | 4 | J |
| 343 | 7.9 | 33 | J | 6.4 | 22 | 101 | -0.4 | 2.1 | 0.5 | 6 | J |
| 356 | 9.3 | 28 | J | 6.4 | 40 | 356 | 4.8 | 0.3 | 4.1 | 1 | J |
| 354 | 11.3 | 31 | J | 6.3 | 38 | 20 | 4.2 | 2.1 | 3.2 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV MAGN | B GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 498 | 9.8 | 0 | C | 10.3 | -4 | 173 | -8.2 | 0.9 | -0.8 | 6 | C |
| 455 | 3.7 | 0 | C | 12.2 | 4 | 158 | -10.9 | 4.4 | -0.2 | 4 | C |
| 494 | 2.7 | 0 | C | 13.8 | -13 | 164 | -12.4 | 2.7 | -3.7 | 4 | C |
| 514 | 2.6 | 0 | C | 14.4 | -36 | 182 | -11.4 | -3.0 | -7.7 | 3 | C |
| 520 | 2.3 | 0 | C | 14.0 | -35 | 168 | -10.9 | -0.5 | -8.1 | 3 | C |
| 521 | 3.6 | 0 | C | 14.7 | -49 | 150 | -8.0 | -0.1 | -11.7 | 2 | C |
| 506 | 4.1 | 0 | C | 14.1 | -62 | 152 | -5.8 | -2.8 | -12.4 | 2 | C |
| 503 | 3.4 | 0 | C | 14.8 | -60 | 159 | -6.8 | -3.9 | -12.4 | 2 | C |
| 500 | 7.6 | 0 | C | 13.9 | -80 | 146 | -1.9 | -5.8 | -12.1 | 3 | C |
| 525 | 18.5 | 0 | C | 10.4 | -53 | 149 | -4.4 | -1.4 | -7.2 | 5 | C |
| 544 | 21.0 | 0 | C | 13.3 | -12 | 137 | -9.4 | 6.0 | -6.9 | 1 | C |
| 542 | 16.0 | 0 | C | 16.1 | -19 | 146 | -12.4 | 4.4 | -8.9 | 2 | C |
| 528 | 16.7 | 0 | C | 14.5 | -17 | 187 | -13.2 | -3.4 | -2.6 | 4 | C |
| 518 | 21.6 | 0 | C | 11.0 | -36 | 148 | -7.5 | 1.1 | -7.7 | 3 | C |
| 498 | 17.8 | 0 | C | 10.4 | -11 | 121 | -4.7 | 6.2 | -4.9 | 5 | C |
| 496 | 7.1 | 0 | C | 12.0 | -3 | 74 | 3.0 | 9.5 | -4.7 | 4 | C |
| 525 | 7.1 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| 522 | 8.3 | 0 | C | | | | | | | | |
| 522 | 8.3 | 0 | C | 15.9 | -4 | 296 | 6.9 | -13.9 | 1.9 | 2 | C |
| 514 | 9.3 | 0 | C | 14.6 | -1 | 292 | 5.2 | -12.8 | 2.1 | 3 | C |
| 506 | 11.8 | 0 | C | 12.4 | -6 | 341 | 11.0 | -3.9 | -0.5 | 3 | C |
| 483 | 12.9 | 0 | C | 12.4 | -13 | 305 | 6.0 | -8.7 | -1.1 | 5 | C |
| 492 | 14.8 | 0 | C | 13.4 | 10 | 321 | 9.0 | -7.0 | 3.2 | 6 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 505 | 10.1 | 0 | C | 13.6 | 11 | 295 | 5.4 | -11.0 | 4.5 | 2 | C |
| 2 | 540 | 7.7 | 0 | C | 9.4 | 11 | 300 | 4.1 | -6.7 | 3.0 | 4 | C |
| 3 | 562 | 5.3 | 0 | C | 7.3 | 11 | 296 | 2.7 | -5.1 | 2.6 | 3 | C |
| 4 | 559 | 4.9 | 0 | C | 6.9 | 17 | 294 | 2.2 | -4.3 | 3.1 | 3 | C |
| 5 | 563 | 4.8 | 0 | C | 6.5 | 7 | 314 | 3.9 | -3.5 | 2.0 | 3 | C |
| 6 | 562 | 4.8 | 0 | C | 6.4 | 19 | 289 | 1.8 | -4.0 | 3.9 | 2 | C |
| 7 | 549 | 4.7 | 0 | C | 6.8 | -15 | 309 | 3.8 | -4.9 | 0.7 | 2 | C |
| 8 | 548 | 4.7 | 0 | C | 7.0 | -20 | 283 | 1.3 | -6.1 | 0.9 | 2 | C |
| 9 | 546 | 4.8 | 0 | C | 7.0 | 6 | 317 | 3.8 | -2.7 | 2.3 | 4 | C |
| 10 | 537 | 4.7 | 0 | C | 6.4 | -7 | 324 | 4.7 | -3.3 | 1.2 | 2 | C |
| 11 | 545 | 4.2 | 0 | C | 5.4 | -45 | 253 | -0.7 | -3.5 | -0.9 | 4 | C |
| 12 | 557 | 3.8 | 0 | C | 5.3 | -10 | 271 | 0.1 | -4.3 | 1.6 | 2 | C |
| 13 | 569 | 3.7 | 0 | C | 5.0 | 11 | 283 | 0.8 | -2.6 | 2.3 | 3 | C |
| 14 | 587 | 4.5 | 0 | C | 5.9 | 1 | 31 | 2.9 | 1.6 | -0.8 | 4 | C |
| 15 | 605 | 4.6 | 0 | C | 5.6 | 31 | 298 | 1.2 | -1.4 | 2.4 | 4 | C |
| 16 | 624 | 4.3 | 0 | C | 5.5 | 38 | 281 | 0.6 | -1.8 | 3.4 | 3 | C |
| 17 | 629 | 4.1 | 0 | C | 6.4 | 46 | 336 | 3.8 | -0.2 | 4.6 | 2 | C |
| 18 | 612 | 3.8 | 0 | C | 6.3 | 39 | 338 | 4.3 | -0.6 | 4.1 | 2 | C |
| 19 | 593 | 4.2 | 0 | C | 6.7 | 18 | 301 | 2.8 | -4.0 | 2.8 | 3 | C |
| 20 | 575 | 4.7 | 0 | C | 5.7 | 29 | 52 | 2.7 | 3.8 | 1.6 | 2 | C |
| 21 | 595 | 4.0 | 0 | C | 5.5 | 42 | 1 | 3.0 | 0.5 | 2.7 | 3 | C |
| 22 | 626 | 3.1 | 0 | C | 5.6 | 29 | 337 | 3.9 | -1.3 | 2.6 | 2 | C |
| 23 | 626 | 2.8 | 0 | C | 5.7 | -11 | 340 | 4.4 | -1.7 | -0.7 | 2 | C |
| 24 | 623 | 2.9 | 0 | C | 5.5 | -29 | 1 | 4.1 | -0.3 | -2.3 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 636 | 2.9 | 0 | C | 5.2 | 11 | 15 | 3.4 | 1.0 | 0.5 | 3 | C |
| 2 | 641 | 3.0 | 0 | C | 5.3 | 9 | 309 | 2.8 | -3.3 | 1.4 | 2 | C |
| 3 | 643 | 3.2 | 0 | C | 5.8 | 18 | 357 | 5.1 | 0.1 | 1.7 | 2 | C |
| 4 | 616 | 4.3 | 0 | C | 6.0 | 41 | 330 | 3.2 | -0.8 | 3.6 | 3 | C |
| 5 | 591 | 5.1 | 0 | C | 5.8 | 22 | 304 | 2.6 | -3.0 | 3.1 | 2 | C |
| 6 | 586 | 4.9 | 0 | C | 6.2 | 8 | 35 | 4.0 | 2.8 | -0.5 | 4 | C |
| 7 | 583 | 4.8 | 0 | C | 6.6 | -9 | 1 | 6.4 | -0.4 | -1.0 | 1 | C |
| 8 | 607 | 4.6 | 0 | C | 6.1 | -2 | 1 | 5.7 | -0.1 | -0.2 | 2 | C |
| 9 | 623 | 4.4 | 0 | C | 5.6 | -28 | 14 | 3.6 | -0.3 | -2.2 | 3 | C |
| 10 | 629 | 4.2 | 0 | C | 5.5 | -19 | 304 | 2.1 | -3.3 | 0.5 | 3 | C |
| 11 | 602 | 4.8 | 0 | C | 5.9 | -38 | 305 | 2.2 | -4.3 | -0.9 | 3 | C |
| 12 | 587 | 4.9 | 0 | C | 5.9 | -11 | 320 | 3.9 | -3.3 | 0.9 | 2 | C |
| 13 | 596 | 4.4 | 0 | C | 6.2 | -15 | 312 | 3.6 | -4.2 | 0.7 | 2 | C |
| 14 | 594 | 4.4 | 0 | C | 6.8 | -9 | 290 | 1.8 | -4.9 | 1.6 | 3 | C |
| 15 | 602 | 5.0 | 0 | C | 6.0 | -55 | 335 | 1.6 | -1.8 | -2.0 | 4 | C |
| 16 | 592 | 5.6 | 0 | C | 5.6 | -17 | 322 | 2.9 | -2.5 | -0.2 | 4 | C |
| 17 | 570 | 5.7 | 0 | C | 7.4 | -29 | 322 | 4.6 | -4.4 | -1.8 | 3 | C |
| 18 | 566 | 5.7 | 0 | C | 8.0 | -1 | 325 | 6.2 | -4.2 | 1.1 | 2 | C |
| 19 | 575 | 5.8 | 0 | C | 7.7 | 1 | 336 | 5.3 | -2.2 | 0.7 | 4 | C |
| 20 | 581 | 5.9 | 0 | C | 7.9 | 15 | 21 | 6.6 | 2.8 | 1.4 | 3 | C |
| 21 | 582 | 6.5 | 0 | C | 7.6 | -20 | 75 | 1.2 | 4.2 | -2.4 | 5 | C |
| 22 | 578 | 7.1 | 0 | C | 8.7 | -1 | 10 | 6.9 | 1.2 | -0.3 | 4 | C |
| 23 | 600 | 7.6 | 0 | C | 9.1 | -42 | 212 | -3.2 | -2.5 | -3.1 | 7 | C |
| 24 | 621 | 7.1 | 0 | C | 10.3 | -19 | 209 | -6.8 | -4.1 | -2.0 | 6 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 584 | 5.9 | 0 | C | 10.6 | -2 | 224 | -5.7 | -5.4 | 0.7 | 7 | C |
| 2 | 543 | 5.2 | 0 | C | 11.2 | -16 | 260 | -1.8 | -10.7 | -0.8 | 2 | C |
| 3 | 535 | 5.4 | 0 | C | 11.9 | -4 | 256 | -2.9 | -11.2 | 2.1 | 1 | C |
| 4 | 533 | 4.9 | 0 | C | 12.2 | -9 | 241 | -5.7 | -10.3 | 1.2 | 3 | C |
| 5 | 533 | 4.2 | 0 | C | 12.2 | -17 | 241 | -5.4 | -10.5 | 0.3 | 2 | C |
| 6 | 512 | 6.4 | 0 | C | 11.0 | -51 | 251 | -1.6 | -6.9 | -3.9 | 7 | C |
| 7 | 493 | 9.2 | 0 | C | 9.9 | -1 | 316 | 1.2 | -1.1 | 0.5 | 9 | C |
| 8 | 474 | 9.9 | 0 | C | 9.4 | 6 | 29 | 7.5 | 4.2 | -1.2 | 3 | C |
| 9 | 457 | 9.8 | 0 | C | 10.0 | -3 | 12 | 9.7 | 1.4 | -1.5 | 1 | C |
| 10 | 448 | 8.9 | 0 | C | 10.2 | -4 | 7 | 10.1 | 0.6 | -1.2 | 1 | C |
| 11 | 447 | 7.5 | 0 | C | 9.5 | 10 | 0 | 9.3 | 0.9 | 1.3 | 1 | C |
| 12 | 462 | 6.2 | 0 | C | 8.9 | 40 | 336 | 6.1 | 0.5 | 6.2 | 1 | C |
| 13 | 495 | 4.4 | 0 | C | 10.1 | 56 | 328 | 4.7 | 1.4 | 8.4 | 2 | C |
| 14 | 516 | 4.4 | 0 | C | 8.6 | 53 | 339 | 4.5 | 1.4 | 6.4 | 3 | C |
| 15 | 514 | 4.9 | 0 | C | 7.3 | 53 | 292 | 1.4 | -1.0 | 5.8 | 3 | C |
| 16 | 514 | 4.9 | 0 | C | 6.8 | 52 | 267 | -0.1 | -1.2 | 4.2 | 5 | C |
| 17 | 515 | 4.5 | 0 | C | 7.7 | 43 | 266 | -0.3 | -3.1 | 6.0 | 3 | C |
| 18 | 532 | 3.7 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 563 | 4.2 | 286 | J | 5.8 | 27 | 302 | 2.5 | -3.3 | 3.2 | 2 | C |
| 20 | 547 | 4.1 | 287 | J | 5.4 | 24 | 332 | 4.2 | -1.8 | 2.6 | 1 | C |
| 21 | 538 | 4.1 | 269 | J | 5.4 | 35 | 358 | 4.3 | 0.3 | 3.0 | 1 | C |
| 22 | 535 | 2.8 | 192 | J | 5.6 | 45 | 355 | 3.7 | 0.2 | 3.8 | 2 | J |
| 23 | 552 | 2.4 | 0 | C | 5.5 | 46 | 4 | 3.5 | 0.8 | 3.6 | 2 | J |
| 24 | 529 | 2.4 | 0 | C | 4.4 | 30 | 332 | 3.1 | -1.3 | 2.2 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 481 | 2.7 | 0 | C | 4.6 | 33 | 350 | 3.5 | -0.2 | 2.4 | 2 | J |
| 2 | 542 | 2.6 | 166 | J | 4.7 | 37 | 324 | 2.6 | -1.4 | 2.8 | 2 | J |
| 3 | 442 | 2.9 | 0 | C | 4.9 | 8 | 308 | 2.7 | -3.2 | 1.4 | 2 | J |
| 4 | 526 | 2.0 | 108 | J | 3.7 | 4 | 326 | 2.6 | -1.6 | 0.7 | 2 | J |
| 5 | 548 | 2.0 | 137 | J | 3.6 | 0 | 326 | 2.5 | -1.6 | 0.6 | 2 | J |
| 6 | 582 | 2.1 | 79 | J | 3.6 | -12 | 202 | -3.2 | -1.5 | -0.2 | 1 | J |
| 7 | 558 | 2.2 | 88 | J | 3.5 | -5 | 257 | -0.7 | -2.6 | 1.0 | 2 | J |
| 8 | 490 | 2.3 | 87 | J | 3.4 | 22 | 316 | 1.7 | -1.0 | 1.6 | 2 | J |
| 9 | 499 | 2.1 | 93 | J | 3.8 | 41 | 335 | 2.3 | 0.2 | 2.4 | 2 | J |
| 10 | 513 | 2.3 | 77 | J | 3.6 | 55 | 268 | -0.1 | -0.2 | 3.3 | 1 | J |
| 11 | 514 | 2.3 | 62 | J | 3.7 | 20 | 285 | 0.7 | -1.7 | 2.1 | 2 | J |
| 12 | 481 | 2.3 | 0 | C | 4.4 | 38 | 345 | 3.1 | 0.6 | 2.6 | 1 | J |
| 13 | 460 | 2.0 | 60 | J | 2.9 | 19 | 327 | 1.7 | -0.6 | 1.1 | 2 | J |
| 14 | 496 | 2.0 | 81 | J | 3.4 | 8 | 202 | -3.0 | -0.9 | 1.0 | 1 | J |
| 15 | 489 | 2.4 | 58 | J | 3.7 | -2 | 210 | -3.1 | -1.7 | 0.6 | 1 | J |
| 16 | 470 | 2.8 | 60 | J | 3.1 | 0 | 241 | -1.5 | -2.4 | 1.0 | 1 | J |
| 17 | 469 | 2.5 | 58 | J | 3.5 | 6 | 259 | -0.5 | -2.4 | 1.1 | 2 | J |
| 18 | 453 | 2.5 | 54 | J | 3.7 | -6 | 268 | -0.1 | -3.0 | 0.5 | 2 | J |
| 19 | 440 | 2.2 | 87 | L | 3.1 | 0 | 296 | 1.3 | -2.6 | 0.6 | 1 | J |
| 20 | 434 | 3.0 | 0 | C | 3.5 | 18 | 285 | 0.8 | -2.9 | 1.6 | 0 | C |
| 21 | 421 | 3.7 | 43 | J | 3.6 | 19 | 275 | 0.3 | -3.2 | 1.7 | 0 | J |
| 22 | 421 | 3.3 | 0 | C | 3.8 | 20 | 294 | 1.3 | -2.6 | 1.5 | 2 | J |
| 23 | 406 | 4.4 | 28 | J | 3.9 | 12 | 295 | 1.4 | -3.0 | 1.1 | 2 | J |
| 24 | 409 | 3.4 | 0 | C | 4.1 | 18 | 289 | 1.2 | -3.3 | 1.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 3.3 | 0 | C | 4.2 | 14 | 309 | 2.5 | -2.9 | 1.5 | 1 | C |
| 2 | 407 | 3.3 | 0 | C | 4.4 | 13 | 315 | 2.9 | -2.7 | 1.5 | 1 | C |
| 3 | 405 | 3.3 | 0 | C | 4.6 | 17 | 332 | 3.8 | -1.7 | 1.8 | 1 | C |
| 4 | 398 | 3.1 | 0 | C | 4.7 | 19 | 334 | 4.0 | -1.4 | 2.0 | 0 | C |
| 5 | 394 | 3.2 | 0 | C | 4.5 | 17 | 313 | 2.9 | -2.5 | 2.3 | 0 | C |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 375 | 3.4 | 22 | J | 4.3 | 0 | 322 | 3.4 | -2.4 | 1.2 | 1 | J |
| 8 | 365 | 3.6 | 0 | C | 4.2 | 2 | 324 | 3.3 | -2.1 | 1.3 | 0 | C |
| 9 | 361 | 4.3 | 29 | J | 3.6 | 3 | 306 | 1.9 | -2.2 | 1.5 | 1 | J |
| 10 | 352 | 4.5 | 51 | J | 3.6 | -16 | 320 | 2.6 | -2.4 | 0.3 | 1 | J |
| 11 | 345 | 4.7 | 23 | J | 3.4 | -6 | 311 | 2.1 | -2.2 | 1.0 | 1 | J |
| 12 | 353 | 5.0 | 27 | J | 3.4 | -11 | 292 | 1.2 | -2.9 | 1.0 | 1 | J |
| 13 | 346 | 5.2 | 21 | J | 3.5 | -2 | 303 | 1.8 | -2.5 | 1.3 | 1 | J |
| 14 | 338 | 5.5 | 19 | J | 3.5 | -2 | 309 | 2.2 | -2.5 | 1.1 | 0 | J |
| 15 | 340 | 6.0 | 19 | J | 3.3 | 2 | 323 | 2.4 | -1.6 | 0.9 | 1 | J |
| 16 | 337 | 6.2 | 16 | J | 3.5 | 1 | 325 | 2.8 | -1.8 | 0.8 | 1 | J |
| 17 | 335 | 7.4 | 18 | J | 3.6 | 18 | 328 | 2.8 | -1.3 | 1.6 | 1 | J |
| 18 | 333 | 6.6 | 13 | J | 3.8 | -2 | 293 | 1.4 | -3.3 | 0.8 | 1 | J |
| 19 | 337 | 7.2 | 16 | J | 3.8 | -6 | 285 | 0.9 | -3.5 | 0.4 | 1 | J |
| 20 | 326 | 6.9 | 0 | C | 3.7 | 36 | 265 | -0.2 | -1.6 | 1.8 | 3 | J |
| 21 |  |  |  |  | 3.5 | 7 | 259 | -0.5 | -2.5 | 0.7 | 2 | J |
| 22 | 344 | 8.9 | 22 | J | 4.1 | -29 | 258 | -0.7 | -3.7 | -1.5 | 0 | J |
| 23 | 348 | 10.1 | 19 | J | 3.9 | 23 | 266 | -0.2 | -3.2 | 1.9 | 1 | C |
| 24 | 345 | 12.1 | 21 | J | 3.8 | 5 | 264 | -0.4 | -3.5 | 0.8 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 346 | 11.1 | 19 | J |  |  |  |  |  |  |  |  |
| 2 | 343 | 11.9 | 19 | J | 5.1 | 24 | 210 | -4.0 | -1.9 | 2.5 | 1 | J |
| 3 | 339 | 10.6 | 18 | J | 5.1 | 20 | 219 | -3.6 | -2.4 | 2.3 | 1 | J |
| 4 | 345 | 9.4 | 21 | J | 5.8 | 0 | 212 | -4.8 | -2.8 | 0.8 | 1 | J |
| 5 |  |  |  |  | 5.6 | -4 | 218 | -4.3 | -3.3 | 0.8 | 1 | J |
| 6 | 333 | 12.1 | 14 | J | 5.2 | -18 | 213 | -4.1 | -3.0 | -0.4 | 1 | J |
| 7 | 331 | 10.8 | 17 | J | 5.3 | -8 | 221 | -3.9 | -3.4 | 0.8 | 1 | J |
| 8 | 314 | 10.1 | 0 | C | 5.4 | -17 | 222 | -3.8 | -3.7 | 0.2 | 1 | C |
| 9 | 314 | 10.1 | 0 | C | 5.1 | -15 | 226 | -3.4 | -3.7 | 0.6 | 1 | C |
| 10 | 293 | 12.1 | 0 | C | 5.8 | 30 | 322 | 3.0 | -0.9 | 3.1 | 4 | C |
| 11 | 290 | 10.6 | 0 | C | 6.2 | 34 | 346 | 4.8 | 0.7 | 3.5 | 2 | J |
| 12 | 305 | 9.9 | 14 | J | 6.2 | 36 | 354 | 4.9 | 1.4 | 3.4 | 1 | J |
| 13 | 298 | 7.5 | 11 | J | 6.2 | 25 | 351 | 5.1 | 0.5 | 2.5 | 3 | J |
| 14 | 285 | 6.3 | 12 | J | 6.2 | 13 | 349 | 5.8 | -0.4 | 1.7 | 1 | J |
| 15 | 284 | 6.8 | 14 | J | 6.9 | 17 | 353 | 6.5 | 0.1 | 2.2 | 1 | J |
| 16 | 288 | 6.2 | 23 | J | 6.2 | 3 | 349 | 5.8 | -0.9 | 0.7 | 2 | J |
| 17 | 295 | 7.5 | 21 | J | 6.3 | -4 | 319 | 4.5 | -3.9 | 0.9 | 2 | J |
| 18 | 306 | 9.3 | 20 | J | 5.6 | -47 | 303 | 1.9 | -3.8 | -2.8 | 2 | J |
| 19 | 288 | 7.8 | 24 | J | 5.8 | -35 | 329 | 3.8 | -2.9 | -2.5 | 2 | J |
| 20 | 289 | 7.6 | 28 | J | 6.1 | -36 | 311 | 3.2 | -4.3 | -2.8 | 1 | J |
| 21 | 279 | 6.8 | 15 | J | 6.2 | -23 | 322 | 4.3 | -3.7 | -1.8 | 2 | J |
| 22 | 291 | 7.3 | 16 | J | 6.7 | -21 | 314 | 4.3 | -4.7 | -1.8 | 1 | J |
| 23 | 286 | 7.2 | 18 | J | 6.8 | -19 | 316 | 4.5 | -4.6 | -1.6 | 1 | J |
| 24 | 290 | 7.0 | 15 | J | 6.9 | -33 | 320 | 4.4 | -4.2 | -3.2 | 1 | J |

OCT. 30, 1980 304

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 285 | 8.0 | 0 | C | 7.5 | -34 | 306 | 3.3 | -5.1 | -3.1 | 3 | J |
| 2 | 296 | 8.7 | 17 | J | 7.5 | -37 | 321 | 4.5 | -4.4 | -3.6 | 2 | J |
| 3 | 290 | 10.9 | 0 | C | 8.2 | -31 | 53 | 4.1 | 4.3 | -5.2 | 2 | J |
| 4 | 310 | 11.2 | 25 | J | 8.5 | -78 | 158 | -1.1 | -1.1 | -5.4 | 6 | J |
| 5 | 293 | 10.1 | 22 | J | 8.7 | -42 | 35 | 4.9 | 1.4 | -6.2 | 3 | J |
| 6 | 296 | 10.9 | 24 | J | 8.7 | -36 | 40 | 5.3 | 2.2 | -6.4 | 1 | J |
| 7 | 298 | 10.4 | 20 | J | 8.7 | -36 | 44 | 4.9 | 2.2 | -6.6 | 2 | J |
| 8 | 272 | 11.6 | 0 | C | 9.0 | -24 | 24 | 7.3 | 1.1 | -4.6 | 2 | C |
| 9 | 265 | 11.9 | 0 | C | 8.9 | -19 | 16 | 8.0 | 0.6 | -3.7 | 1 | C |
| 10 | 258 | 12.0 | 0 | C | 8.9 | -1 | 15 | 8.5 | 1.9 | -1.2 | 2 | C |
| 11 | 245 | 11.5 | 0 | C | 9.4 | -6 | 2 | 9.2 | -0.2 | -1.0 | 1 | C |
| 12 | 233 | 10.4 | 0 | C | 9.4 | 0 | 355 | 9.3 | -0.7 | 0.3 | 0 | C |
| 13 | 236 | 10.0 | 0 | C | 8.8 | -4 | 351 | 8.7 | -1.5 | 0.1 | 1 | C |
| 14 | 246 | 7.4 | 9 | J | 7.3 | -2 | 354 | 6.1 | -0.7 | 0.1 | 4 | J |
| 15 | 239 | 9.7 | 0 | C | 8.0 | 4 | 3 | 7.9 | 0.6 | 0.3 | 1 | C |
| 16 | 259 | 16.1 | 0 | C | 8.4 | -4 | 345 | 7.6 | -2.1 | 0.2 | 3 | C |
| 17 | 298 | 25.1 | 0 | C | 15.0 | 34 | 288 | 3.8 | -8.6 | 11.7 | 1 | J |
| 18 | 334 | 21.8 | 76 | J | 14.9 | 36 | 280 | 2.0 | -8.9 | 11.3 | 4 | J |
| 19 | 334 | 24.5 | 45 | J | 14.7 | 36 | 284 | 2.7 | -8.9 | 10.5 | 5 | J |
| 20 | 335 | 27.7 | 30 | J | 14.5 | 28 | 284 | 2.9 | -10.4 | 8.4 | 5 | J |
| 21 | 341 | 32.0 | 33 | J | 14.3 | 25 | 281 | 2.4 | -11.4 | 7.7 | 3 | J |
| 22 | 311 | 51.1 | 0 | C | 11.9 | 13 | 276 | 1.0 | -9.3 | 3.4 | 6 | C |
| 23 | 306 | 50.9 | 0 | C | 12.3 | -14 | 122 | -4.5 | 6.9 | -3.0 | 9 | C |
| 24 | 328 | 26.0 | 0 | C | 16.4 | 6 | 103 | -3.2 | 13.5 | -0.3 | 8 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 347 | 19.0 | 0 | C |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 370 | 17.3 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 370 | 17.3 | 0 | C | 14.7 | -6 | 110 | -4.9 | 11.7 | -7.1 | 1 | C |
| 8 | 377 | 15.9 | 48 | J | 15.1 | 2 | 120 | -7.4 | 11.6 | -5.5 | 3 | J |
| 9 | 379 | 17.1 | 57 | J | 14.2 | 8 | 122 | -7.2 | 11.0 | -4.0 | 4 | J |
| 10 | 381 | 20.0 | 85 | J | 13.8 | 34 | 181 | -11.0 | 3.6 | 6.5 | 4 | J |
| 11 | 441 | 17.7 | 0 | C | 15.7 | 35 | 157 | -11.4 | 8.5 | 5.1 | 4 | C |
| 12 | 447 | 19.0 | 0 | C | 13.4 | 27 | 137 | -7.8 | 9.1 | 1.2 | 5 | C |
| 13 | 491 | 13.2 | 239 | J | 14.4 | -8 | 98 | -1.8 | 10.2 | -7.5 | 6 | J |
| 14 | 474 | 14.2 | 225 | J | 13.4 | -10 | 117 | -4.8 | 7.6 | -5.8 | 8 | J |
| 15 | 487 | 15.3 | 215 | J | 12.5 | -10 | 126 | -6.1 | 7.0 | -5.1 | 7 | J |
| 16 | 511 | 18.4 | 0 | C | 11.9 | -15 | 117 | -4.0 | 6.4 | -5.0 | 5 | C |
| 17 | 531 | 14.8 | 0 | C | 10.1 | 15 | 120 | -3.7 | 6.7 | -0.1 | 5 | C |
| 18 | 518 | 10.0 | 153 | J | 8.4 | -5 | 149 | -6.0 | 3.3 | -1.5 | 5 | J |
| 19 | 528 | 9.5 | 161 | J | 11.0 | -2 | 118 | -4.8 | 8.8 | -2.3 | 4 | J |
| 20 | 505 | 9.8 | 129 | J | 10.9 | 19 | 146 | -6.9 | 5.1 | 2.0 | 6 | J |
| 21 | 526 | 10.0 | 199 | J | 8.9 | -1 | 133 | -5.7 | 6.0 | -1.0 | 3 | J |
| 22 | 542 | 10.1 | 210 | J | 9.6 | -3 | 114 | -3.1 | 6.9 | -1.3 | 6 | J |
| 23 | 529 | 9.0 | 0 | C | 11.9 | 20 | 116 | -4.2 | 9.0 | 2.4 | 5 | C |
| 24 | 548 | 9.6 | 0 | C | 10.1 | 51 | 143 | -3.8 | 3.5 | 5.5 | 5 | C |

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OF POOR QUALITY

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NOV. 1, 1980 306

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 518 | 10.7 | 0 | C | 9.8 | 11 | 152 | -7.8 | 4.3 | 1.1 | 3 | C |
| 2 | 483 | 12.1 | 0 | C | 9.7 | 15 | 150 | -7.1 | 4.5 | 1.4 | 3 | C |
| 3 | 476 | 11.2 | 0 | C | 10.1 | -4 | 160 | -8.8 | 2.9 | -1.3 | 3 | C |
| 4 | 483 | 10.0 | 0 | C | 10.2 | 12 | 109 | -3.1 | 9.2 | -0.4 | 3 | C |
| 5 | 460 | 10.0 | 0 | C | 9.8 | 19 | 142 | -7.1 | 6.3 | 1.2 | 2 | C |
| 6 | 450 | 10.0 | 0 | C | 9.7 | -4 | 117 | -4.2 | 7.3 | -3.6 | 3 | C |
| 7 | 447 | 10.5 | 0 | C | 8.6 | 5 | 119 | -3.5 | 6.1 | -2.1 | 3 | C |
| 8 | 435 | 10.5 | 0 | C | 8.6 | -9 | 147 | -5.8 | 2.8 | -2.7 | 4 | C |
| 9 | 496 | 8.1 | 75 | J | 8.4 | -9 | 108 | -2.5 | 6.2 | -4.9 | 1 | J |
| 10 | 483 | 7.6 | 70 | J | 8.4 | -8 | 111 | -2.8 | 5.8 | -4.7 | 3 | J |
| 11 | 414 | 10.0 | 0 | C | 8.4 | 18 | 146 | -5.6 | 4.4 | 0.0 | 4 | C |
| 12 | 427 | 10.1 | 0 | C | 7.8 | -2 | 124 | -3.6 | 4.6 | -2.8 | 4 | C |
| 13 | 502 | 7.2 | 69 | J | 6.7 | 47 | 102 | -0.7 | 4.6 | 1.6 | 4 | J |
| 14 | 471 | 6.6 | 65 | J | 6.3 | -2 | 122 | -2.1 | 3.0 | -1.6 | 5 | J |
| 15 | 475 | 7.2 | 83 | J | 6.5 | -16 | 125 | -3.5 | 3.9 | -3.6 | 0 | J |
| 16 | 465 | 6.2 | 52 | J | 6.5 | -17 | 138 | -4.3 | 3.0 | -3.0 | 2 | J |
| 17 | 453 | 6.0 | 43 | J | 6.6 | -24 | 173 | -5.8 | -0.1 | -2.7 | 1 | J |
| 18 | 461 | 6.5 | 61 | J | 6.3 | -6 | 148 | -4.6 | 2.6 | -1.3 | 3 | J |
| 19 | 477 | 6.4 | 70 | J | 5.9 | 24 | 96 | -0.5 | 5.4 | 1.1 | 2 | J |
| 20 | 416 | 8.6 | 0 | C | 6.1 | 18 | 88 | 0.2 | 5.4 | 0.8 | 2 | C |
| 21 | 401 | 8.1 | 0 | C | 6.0 | 12 | 104 | -1.4 | 5.6 | 0.5 | 1 | C |
| 22 | 441 | 5.3 | 57 | J | 6.4 | 13 | 151 | -5.2 | 3.0 | 1.0 | 2 | J |
| 23 | 439 | 5.7 | 96 | J | 5.5 | 26 | 164 | -4.1 | 1.4 | 1.9 | 3 | J |
| 24 | 441 | 5.8 | 106 | J | 5.4 | -1 | 147 | -4.1 | 2.6 | -0.4 | 2 | J |

NOV. 2, 1980 307

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 5.4 | 107 | J | 5.2 | 8 | 175 | -4.5 | 0.5 | 0.6 | 2 | J |
| 425 | 5.0 | 82 | J | 5.2 | -16 | 170 | -4.6 | 0.6 | -1.5 | 2 | J |
| 430 | 5.2 | 74 | J | 5.1 | -14 | 167 | -4.0 | 0.7 | -1.2 | 3 | J |
| 432 | 5.4 | 63 | J | 5.2 | -8 | 131 | -3.1 | 3.2 | -1.6 | 2 | J |
| 426 | 6.0 | 0 | C | 5.3 | -5 | 128 | -2.9 | 3.3 | -1.6 | 2 | C |
| 445 | 5.8 | 73 | J | 4.6 | 66 | 227 | -1.2 | 0.3 | 4.0 | 2 | J |
| 425 | 5.7 | 69 | J | 5.2 | 31 | 176 | -3.4 | 1.1 | 1.8 | 3 | J |
| 442 | 5.8 | 83 | J | 4.7 | 50 | 131 | -1.4 | 2.7 | 1.6 | 3 | J |
| 437 | 5.7 | 71 | J | 4.7 | 50 | 221 | -1.8 | 0.0 | 3.3 | 3 | J |
| 435 | 6.0 | 79 | J | 4.7 | 6 | 216 | -3.1 | -1.8 | 1.5 | 3 | J |
| 455 | 7.2 | 86 | J | 5.6 | -22 | 213 | -3.9 | -3.1 | -0.4 | 2 | J |
| 444 | 7.3 | 93 | J | 5.9 | -17 | 162 | -5.3 | 0.7 | -2.3 | 1 | J |
| 450 | 7.2 | 82 | J | 5.4 | -1 | 230 | -3.0 | -3.1 | 1.6 | 3 | J |
| 461 | 7.2 | 91 | J | 5.0 | -50 | 236 | -1.5 | -3.4 | -1.9 | 3 | J |
| 440 | 6.4 | 145 | J | 4.3 | -14 | 179 | -3.8 | -0.3 | -0.9 | 2 | J |
| 450 | 6.5 | 88 | J | 4.6 | -41 | 208 | -2.3 | -2.0 | -1.7 | 3 | J |
| 428 | 6.5 | 0 | C | 4.0 | -29 | 169 | -3.1 | 0.0 | -1.9 | 1 | C |
| 451 | 5.6 | 82 | J | 4.5 | -45 | 90 | 0.0 | 2.2 | -3.7 | 1 | J |
| 428 | 4.7 | 56 | J | 4.2 | -19 | 166 | -2.9 | 0.5 | -1.2 | 3 | J |
| 433 | 5.1 | 81 | J | 4.4 | -6 | 222 | -3.1 | -2.8 | 0.0 | 1 | J |
| 438 | 5.3 | 78 | J | 4.4 | -2 | 225 | -3.0 | -3.0 | 0.3 | 1 | J |
| 436 | 5.2 | 90 | J | 4.1 | -14 | 207 | -3.3 | -1.8 | -0.7 | 1 | J |
| 435 | 4.6 | 56 | J | 4.2 | 14 | 194 | -3.5 | -0.8 | 1.0 | 2 | J |
| 434 | 4.1 | 80 | J | 3.8 | 22 | 151 | -2.9 | 1.8 | 1.2 | 1 | J |

NOV. 3, 1980 308

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 4.0 | 73 | J | 3.6 | 38 | 153 | -2.5 | 1.5 | 2.0 | 1 | J |
| 2 | 415 | 3.5 | 33 | J | 3.4 | 13 | 160 | -3.0 | 1.2 | 0.6 | 1 | J |
| 3 | 432 | 3.8 | 0 | C | 3.6 | -2 | 165 | -3.4 | 0.9 | -0.3 | 1 | J |
| 4 | 409 | 3.6 | 33 | J | 3.4 | 0 | 153 | -2.9 | 1.4 | -0.4 | 1 | J |
| 5 | 407 | 3.7 | 38 | J | 3.2 | 1 | 138 | -2.3 | 2.0 | -0.6 | 1 | J |
| 6 | 403 | 3.7 | 52 | J | 3.5 | -4 | 155 | -3.0 | 1.2 | -0.7 | 1 | J |
| 7 | 408 | 3.5 | 36 | J | 3.7 | -16 | 145 | -2.8 | 1.4 | -1.7 | 1 | J |
| 8 | 565 | 0.3 | 386 | J | 3.1 | -32 | 154 | -2.2 | 0.3 | -1.9 | 1 | J |
| 9 | 381 | 3.3 | 71 | L | 3.3 | -23 | 135 | -2.0 | 1.2 | -2.0 | 1 | J |
| 10 | 385 | 5.1 | 33 | J | 3.8 | -4 | 130 | -2.3 | 2.3 | -1.6 | 1 | J |
| 11 | 383 | 5.3 | 40 | J | 3.8 | 2 | 114 | -1.5 | 3.1 | -1.6 | 1 | J |
| 12 | 376 | 6.2 | 29 | J | 3.6 | -2 | 124 | -1.7 | 2.2 | -1.3 | 2 | J |
| 13 | 379 | 7.2 | 34 | J | 3.7 | -10 | 104 | -0.8 | 2.4 | -1.9 | 2 | J |
| 14 | 377 | 7.3 | 27 | J | 4.2 | -11 | 104 | -0.9 | 2.9 | -2.2 | 2 | J |
| 15 | 375 | 7.4 | 22 | J | 4.5 | -18 | 116 | -1.8 | 2.9 | -2.7 | 1 | J |
| 16 | 368 | 6.8 | 25 | J | 4.9 | -13 | 114 | -1.8 | 3.4 | -2.3 | 2 | J |
| 17 | 369 | 7.4 | 21 | J | 4.8 | -11 | 109 | -1.4 | 3.6 | -2.0 | 2 | J |
| 18 | 367 | 7.3 | 21 | J | 4.8 | -2 | 99 | -0.7 | 4.1 | -1.2 | 2 | J |
| 19 | 361 | 6.7 | 27 | J | 4.7 | -2 | 127 | -2.7 | 3.5 | -0.9 | 1 | J |
| 20 | 340 | 4.3 | 77 | L | 4.9 | -17 | 161 | -4.2 | 1.2 | -1.6 | 1 | J |
| 21 | 337 | 4.4 | 82 | L | 4.7 | -16 | 165 | -3.9 | 0.9 | -1.3 | 2 | J |
| 22 | 333 | 4.0 | 74 | L | 4.7 | -14 | 162 | -4.3 | 1.2 | -1.3 | 0 | C |
| 23 | 345 | 5.3 | 52 | L | 4.5 | -8 | 152 | -3.7 | 1.9 | -0.8 | 2 | C |
| 24 | 348 | 8.2 | 0 | C | 4.5 | 11 | 126 | -2.5 | 3.5 | 0.5 | 1 | C |

NOV. 4, 1980 309

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 341 | 7.8 | 0 | C | 4.9 | 12 | 134 | -3.3 | 3.5 | 0.6 | 1 | C |
| 354 | 8.1 | 0 | C | 5.1 | 9 | 126 | -2.9 | 4.2 | 0.1 | 0 | C |
| 353 | 9.3 | 0 | C | 5.8 | -10 | 120 | -2.8 | 4.6 | -1.9 | 1 | C |
| 352 | 11.2 | 0 | C | 5.9 | -1 | 121 | -3.0 | 4.8 | -1.3 | 0 | C |
| 354 | 13.8 | 0 | C | 6.5 | 13 | 111 | -2.2 | 6.0 | -0.5 | 1 | C |
| 359 | 16.6 | 0 | C | 7.4 | 2 | 105 | -1.9 | 6.5 | -2.3 | 2 | C |
| 356 | 16.5 | 0 | C | 8.6 | -7 | 110 | -2.9 | 6.6 | -4.2 | 2 | C |
| 361 | 16.6 | 0 | C | 8.7 | -3 | 106 | -2.4 | 7.1 | -4.0 | 1 | C |
| 357 | 16.5 | 0 | C | 9.0 | -13 | 103 | -2.0 | 6.5 | -5.7 | 1 | C |
| 357 | 16.5 | 0 | C |  |  |  |  |  |  |  |  |
| 352 | 20.9 | 0 | C | 9.3 | -48 | 116 | -2.7 | 1.4 | -8.8 | 0 | C |
| 352 | 20.9 | 0 | C | 8.3 | -54 | 108 | -1.4 | 0.8 | -7.6 | 3 | C |
| 359 | 27.3 | 0 | C | 9.2 | 32 | 303 | 4.2 | -3.4 | 7.2 | 2 | C |
| 363 | 20.0 | 0 | C | 9.2 | 53 | 290 | 1.8 | -1.4 | 8.4 | 3 | C |
| 375 | 13.1 | 0 | C | 7.1 | 21 | 306 | 2.7 | -2.8 | 3.1 | 5 | C |
| 377 | 10.5 | 0 | C | 6.8 | 62 | 281 | 0.6 | -0.9 | 6.5 | 2 | C |
| 377 | 8.9 | 0 | C | 6.7 | 58 | 221 | -1.9 | -0.4 | 4.4 | 4 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 372 | 10.7 | 0 | C | 5.4 | -13 | 129 | -3.2 | 3.6 | -1.9 | 1 | C |
| 361 | 12.2 | 0 | C | 5.1 | 9 | 129 | -2.3 | 2.8 | 0.1 | 3 | C |
| 354 | 13.7 | 0 | C | 5.6 | 51 | 353 | 3.4 | 0.1 | 4.2 | 1 | C |
| 358 | 15.5 | 0 | C | 5.9 | 22 | 331 | 4.7 | -2.3 | 2.4 | 1 | C |
| 359 | 14.7 | 0 | C | 5.6 | -2 | 329 | 4.7 | -2.8 | 0.1 | 1 | C |
| 358 | 14.4 | 0 | C | 5.3 | 14 | 343 | 4.6 | -1.3 | 1.3 | 1 | C |

NOV. 5, 1980 310

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 365 | 14.3 | 0 | C | 5.4 | -10 | 309 | 3.2 | -4.0 | -0.5 | 2 | C |
| 2 | 355 | 14.6 | 0 | C |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 351 | 14.3 | 0 | C | 6.0 | -2 | 322 | 4.6 | -3.4 | 1.3 | 1 | C |
| 8 | 351 | 14.3 | 0 | C | 5.9 | -3 | 314 | 4.0 | -3.9 | 1.6 | 1 | C |
| 9 | 342 | 14.7 | 0 | C | 5.6 | -10 | 321 | 4.3 | -3.4 | 0.8 | 1 | C |
| 10 | 345 | 15.0 | 0 | C | 5.3 | 19 | 324 | 3.8 | -1.6 | 2.7 | 2 | C |
| 11 | 335 | 16.5 | 0 | C | 4.7 | 20 | 331 | 3.3 | -0.9 | 2.1 | 2 | C |
| 12 | 340 | 17.7 | 0 | C | 4.7 | 25 | 328 | 3.1 | -0.9 | 2.5 | 2 | C |
| 13 | 338 | 18.0 | 0 | C | 5.0 | 35 | 54 | 2.3 | 4.1 | 1.0 | 1 | C |
| 14 | 339 | 17.2 | 0 | C | 5.2 | 32 | 26 | 3.8 | 2.8 | 1.6 | 1 | C |
| 15 | 335 | 16.9 | 0 | C | 6.2 | -12 | 309 | 3.8 | -4.7 | 0.7 | 1 | C |
| 16 | 337 | 15.1 | 0 | C | 6.2 | -5 | 314 | 4.3 | -4.3 | 1.0 | 1 | C |
| 17 | 332 | 15.4 | 0 | C | 5.1 | 8 | 328 | 4.1 | -2.3 | 1.4 | 1 | C |
| 18 | 335 | 16.1 | 0 | C | 4.9 | 68 | 349 | 1.6 | 0.7 | 4.1 | 2 | C |
| 19 | 334 | 17.3 | 0 | C | 5.4 | 87 | 55 | 0.1 | 1.1 | 4.3 | 3 | C |
| 20 | 337 | 18.7 | 0 | C | 6.4 | 16 | 329 | 5.3 | -2.8 | 2.2 | 0 | C |
| 21 | 335 | 13.7 | 0 | C | 6.1 | 30 | 340 | 4.6 | -1.4 | 3.1 | 2 | C |
| 22 | 349 | 11.6 | 0 | C | 6.0 | 27 | 13 | 4.2 | 1.2 | 2.1 | 3 | C |
| 23 | 340 | 11.8 | 0 | C | 5.7 | 29 | 68 | 1.8 | 4.9 | 2.4 | 0 | C |
| 24 | 343 | 13.0 | 0 | C | 5.7 | 36 | 86 | 0.3 | 4.6 | 2.7 | 2 | C |

NOV. 6, 1980 311

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 345 | 14.4 | 0 | C | 5.9 | 27 | 78 | 1.1 | 5.3 | 2.0 | 1 | C |
| 349 | 13.6 | 0 | C | 6.5 | 54 | 346 | 3.0 | -0.1 | 4.3 | 4 | C |
| 350 | 14.3 | 0 | C | 5.4 | 17 | 298 | 2.2 | -3.7 | 2.2 | 2 | C |
| 350 | 13.7 | 0 | C | 4.4 | 14 | 308 | 2.3 | -2.6 | 1.6 | 2 | C |
| 345 | 12.8 | 0 | C | 6.3 | -34 | 306 | 3.0 | -5.0 | -2.0 | 2 | C |
| 358 | 11.7 | 0 | C | 6.5 | -6 | 311 | 4.1 | -4.6 | 1.0 | 2 | C |
| 349 | 11.9 | 0 | C | 6.3 | -8 | 293 | 2.2 | -5.3 | 1.4 | 2 | C |
| 341 | 12.2 | 0 | C | 6.5 | -21 | 290 | 1.9 | -5.7 | 0.4 | 2 | C |
| 340 | 12.5 | 0 | C | 6.5 | -10 | 326 | 4.9 | -3.3 | 0.6 | 2 | C |
| 340 | 12.6 | 0 | C |  |  |  |  |  |  |  |  |
| 341 | 14.9 | 0 | C | 6.0 | -6 | 251 | -1.9 | -5.2 | 2.2 | 0 | C |
| 341 | 14.9 | 0 | C | 5.5 | 9 | 300 | 2.6 | -3.5 | 2.8 | 2 | C |
| 343 | 13.1 | 0 | C | 5.6 | -28 | 190 | -4.8 | -1.9 | -1.9 | 1 | C |
| 349 | 12.9 | 0 | C | 5.8 | -30 | 201 | -4.7 | -2.9 | -1.9 | 0 | C |
| 351 | 13.3 | 0 | C | 5.0 | -44 | 262 | -0.4 | -3.9 | -1.6 | 2 | C |
| 345 | 13.3 | 0 | C | 4.0 | -23 | 330 | 2.5 | -1.7 | -0.7 | 2 | C |
| 355 | 14.7 | 0 | C | 4.6 | -48 | 269 | -0.0 | -2.5 | -1.5 | 3 | C |
| 341 | 13.5 | 0 | C | 5.8 | -16 | 258 | -0.3 | -1.7 | -0.1 | 5 | C |
| 361 | 11.6 | 0 | C | 6.1 | 29 | 337 | 4.6 | -1.4 | 3.1 | 2 | C |
| 383 | 10.6 | 0 | C | 6.0 | 2 | 304 | 3.3 | -4.8 | 0.9 | 1 | C |
| 384 | 10.4 | 0 | C | 4.3 | -19 | 294 | 0.8 | -1.9 | -0.5 | 3 | C |
| 373 | 11.5 | 0 | C | 3.4 | -69 | 154 | -0.5 | 0.1 | -1.5 | 3 | C |
| 368 | 12.5 | 0 | C | 4.3 | -24 | 259 | -0.6 | -3.1 | -1.1 | 2 | C |
| 368 | 14.1 | 0 | C | 5.8 | -63 | 11 | 2.3 | 0.0 | -4.6 | 3 | C |

NOV. 7, 1980 312

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 359 | 14.0 | 0 | C | 7.4 | -20 | 344 | 6.0 | -2.0 | -2.1 | 3 | C |
| 2 | 358 | 13.9 | 0 | C | 7.2 | 1 | 301 | 3.5 | -5.6 | 1.0 | 2 | C |
| 3 | 355 | 13.9 | 0 | C | 6.8 | -31 | 292 | 2.1 | -5.5 | -2.2 | 2 | C |
| 4 | 352 | 13.9 | 0 | C | 5.4 | -15 | 343 | 4.3 | -1.6 | -0.8 | 2 | C |
| 5 | 359 | 12.3 | 0 | C | 7.4 | 42 | 10 | 4.2 | 1.8 | 3.4 | 4 | C |
| 6 | 374 | 11.0 | 0 | C | 8.5 | 38 | 323 | 4.3 | -1.6 | 5.0 | 5 | C |
| 7 | 385 | 10.6 | 0 | C | 9.2 | 39 | 0 | 6.6 | 2.2 | 5.0 | 3 | C |
| 8 | 383 | 10.5 | 0 | C | 9.7 | 18 | 345 | 7.7 | -0.7 | 3.2 | 5 | C |
| 9 | 386 | 9.1 | 0 | C | 9.9 | 45 | 346 | 6.2 | 1.5 | 6.3 | 4 | C |
| 10 | 412 | 10.9 | 0 | C | 7.5 | 63 | 12 | 3.3 | 3.8 | 5.5 | 1 | C |
| 11 | 407 | 11.8 | 0 | C | 6.7 | 54 | 331 | 3.0 | 0.8 | 5.0 | 3 | C |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 384 | 9.9 | 0 | C | 8.0 | 65 | 294 | 1.3 | 0.4 | 7.0 | 3 | C |
| 14 | 379 | 10.1 | 0 | C | 7.8 | 50 | 291 | 1.6 | -1.5 | 6.6 | 3 | C |
| 15 | 377 | 9.9 | 0 | C | 7.1 | 8 | 319 | 2.6 | -1.9 | 1.3 | 6 | C |
| 16 | 379 | 9.1 | 0 | C | 7.6 | 19 | 290 | 2.2 | -4.8 | 4.0 | 4 | C |
| 17 | 380 | 8.7 | 0 | C | 6.8 | 15 | 297 | 2.6 | -4.6 | 3.0 | 2 | C |
| 18 | 388 | 8.0 | 0 | C | 7.0 | 35 | 310 | 3.4 | -3.2 | 4.7 | 2 | C |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 397 | 8.6 | 0 | C | 6.3 | 31 | 295 | 2.2 | -4.3 | 3.8 | 0 | C |
| 21 | 404 | 8.8 | 0 | C | 4.9 | -6 | 267 | -0.2 | -4.1 | 0.0 | 2 | C |
| 22 | 398 | 7.7 | 0 | C | 5.9 | 17 | 296 | 2.1 | -4.3 | 1.9 | 3 | C |
| 23 | 399 | 8.4 | 0 | C | 5.6 | -30 | 278 | 0.6 | -4.4 | -2.1 | 2 | C |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

NOV. 8, 1980 313

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 394 | 7.4 | 0 | C | 6.6 | -12 | 311 | 4.0 | -4.8 | -0.8 | 2 | C |
| 380 | 7.2 | 0 | C | 6.8 | -1 | 307 | 3.9 | -5.2 | 0.6 | 2 | C |
| 376 | 6.4 | 0 | C | 7.1 | 1 | 323 | 5.5 | -4.0 | 0.9 | 2 | C |
| 370 | 7.7 | 22 | J | 6.8 | -13 | 311 | 4.1 | -4.9 | -0.3 | 2 | C |
| 366 | 8.0 | 25 | J | 6.8 | -4 | 325 | 5.4 | -3.8 | 0.6 | 1 | C |
| 377 | 6.0 | 22 | J | 6.7 | -1 | 330 | 5.6 | -3.1 | 1.0 | 1 | C |
| 367 | 6.7 | 39 | J | 6.4 | -9 | 335 | 5.6 | -2.8 | 0.2 | 1 | C |
| 356 | 6.1 | 48 | J | 6.2 | 13 | 1 | 5.6 | 0.7 | 1.2 | 2 | C |
| 356 | 6.5 | 66 | J | 6.2 | 26 | 346 | 5.1 | 0.0 | 2.8 | 2 | C |
| 357 | 6.9 | 57 | J |  |  |  |  |  |  |  |  |
| 369 | 6.7 | 41 | J |  |  |  |  |  |  |  |  |
| 379 | 8.4 | 37 | J | 5.8 | 32 | 26 | 4.3 | 3.3 | 1.7 | 1 | C |
| 373 | 7.6 | 35 | J | 6.5 | 37 | 14 | 4.8 | 2.7 | 2.8 | 2 | J |
| 373 | 6.6 | 32 | J | 7.3 | 35 | 356 | 5.9 | 1.3 | 3.9 | 1 | J |
| 380 | 7.6 | 50 | J | 6.3 | 34 | 14 | 4.5 | 2.2 | 2.5 | 3 | J |
| 402 | 6.7 | 60 | J | 6.2 | 4 | 336 | 5.3 | -2.1 | 1.2 | 2 | J |
| 420 | 5.7 | 73 | J | 6.0 | -3 | 318 | 3.3 | -2.9 | 0.6 | 4 | J |
| 446 | 5.3 | 152 | J | 6.4 | -28 | 325 | 4.1 | -3.4 | -1.9 | 3 | J |
| 442 | 6.0 | 194 | J | 6.1 | -22 | 324 | 4.1 | -3.3 | -1.5 | 3 | J |
| 452 | 5.4 | 0 | C | 8.2 | 23 | 333 | 6.6 | -2.9 | 3.6 | 1 | C |
| 461 | 4.6 | 53 | J | 8.8 | 29 | 341 | 7.0 | -2.0 | 4.4 | 2 | C |
| 474 | 4.6 | 67 | J | 8.6 | 29 | 341 | 6.9 | -2.1 | 4.3 | 1 | C |
| 501 | 5.2 | 209 | J | 8.9 | 31 | 342 | 6.6 | -1.9 | 4.4 | 2 | C |
| 502 | 4.8 | 0 | C | 10.3 | 38 | 329 | 6.6 | -3.5 | 6.3 | 2 | C |

# 11/09/80 – 11/16/80

### NOV. 9, 1980

314

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 499 | 4.6 | 149 | J | 10.5 | 34 | 321 | 6.3 | -4.5 | 6.0 | 3 | C |
| 2 | 456 | 4.7 | 109 | J | 10.5 | 18 | 322 | 7.6 | -5.4 | 3.9 | 2 | C |
| 3 | 439 | 5.2 | 98 | J | 10.3 | -3 | 320 | 7.5 | -6.3 | 0.6 | 3 | C |
| 4 | 434 | 6.7 | 133 | J | 9.9 | 5 | 321 | 7.1 | -5.4 | 2.0 | 3 | C |
| 5 | 437 | 6.6 | 82 | J | 9.5 | 11 | 318 | 6.4 | -5.1 | 3.3 | 3 | C |
| 6 | 414 | 6.9 | 0 | C | 9.4 | 14 | 321 | 6.8 | -4.4 | 3.8 | 3 | C |
| 7 | 419 | 5.9 | 65 | J | 8.5 | -4 | 316 | 5.4 | -5.1 | 1.6 | 4 | J |
| 8 | 416 | 5.8 | 43 | J | 8.3 | 21 | 315 | 5.1 | -3.5 | 4.7 | 3 | J |
| 9 | 404 | 4.8 | 35 | J | 8.1 | 28 | 321 | 5.4 | -2.2 | 5.3 | 1 | J |
| 10 | 403 | 5.3 | 41 | J | 7.5 | 24 | 317 | 4.7 | -2.6 | 4.6 | 2 | J |
| 11 | 402 | 6.0 | 60 | J | 6.4 | 1 | 317 | 4.5 | -3.7 | 2.1 | 1 | J |
| 12 | 405 | 5.4 | 47 | J | 6.4 | 3 | 311 | 4.1 | -4.1 | 2.5 | 1 | J |
| 13 | 447 | 12.9 | 0 | C | 10.1 | -45 | 284 | 1.6 | -8.6 | -3.2 | 3 | C |
| 14 | 427 | 10.8 | 0 | C | 10.6 | 2 | 307 | 5.8 | -6.8 | 3.3 | 4 | C |
| 15 | 436 | 7.6 | 133 | J | | | | | | | | |
| 16 | 439 | 6.0 | 104 | J | 11.5 | -19 | 305 | 6.1 | -9.4 | -0.7 | 3 | J |
| 17 | 401 | 7.1 | 0 | C | 12.0 | -34 | 295 | 4.1 | -10.4 | -4.0 | 1 | C |
| 18 | 423 | 5.7 | 56 | J | 11.5 | -22 | 299 | 5.1 | -10.0 | -2.1 | 1 | J |
| 19 | 420 | 5.2 | 45 | J | 11.1 | -14 | 302 | 5.7 | -9.5 | -1.0 | 1 | J |
| 20 | | | | | 10.9 | -2 | 303 | 5.8 | -8.9 | 0.8 | 2 | J |
| 21 | 392 | 4.4 | 50 | J | 10.4 | -1 | 308 | 6.4 | -8.2 | 0.6 | 1 | J |
| 22 | 400 | 5.0 | 55 | J | 12.0 | 0 | 312 | 8.0 | -8.8 | 0.7 | 2 | J |
| 23 | 394 | 4.7 | 59 | J | 12.5 | 4 | 311 | 8.1 | -9.3 | 1.5 | 2 | J |
| 24 | 394 | 4.4 | 55 | J | 12.2 | 15 | 312 | 7.6 | -8.2 | 3.7 | 3 | J |

### NOV. 10, 1980

315

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 401 | 2.9 | 55 | J | 12.3 | 9 | 312 | 7.0 | -7.6 | 2.4 | 6 | J |
| 2 | 431 | 3.0 | 50 | J | 12.4 | 2 | 309 | 7.1 | -8.7 | 1.5 | 5 | J |
| 3 | 434 | 2.8 | 49 | J | 12.5 | 8 | 294 | 3.7 | -8.0 | 2.7 | 9 | J |
| 4 | 387 | 3.2 | 35 | J | 12.1 | -3 | 310 | 7.1 | -8.4 | 1.3 | 5 | J |
| 5 | 392 | 3.2 | 34 | J | 11.4 | -7 | 306 | 6.5 | -9.0 | 1.2 | 2 | J |
| 6 | 400 | 3.7 | 32 | J | 11.0 | 14 | 311 | 6.8 | -6.5 | 5.1 | 2 | J |
| 7 | 367 | 4.1 | 0 | C | 11.2 | 6 | 303 | 6.1 | -8.1 | 4.6 | 1 | C |
| 8 | 372 | 3.4 | 0 | C | 10.7 | 3 | 302 | 5.7 | -7.9 | 4.3 | 1 | C |
| 9 | 383 | 2.7 | 0 | C | 11.2 | 7 | 333 | 7.5 | -2.9 | 2.7 | 7 | C |
| 10 | 410 | 2.1 | 83 | L | 10.1 | -26 | 344 | 8.2 | -4.0 | -2.6 | 4 | J |
| 11 | 395 | 2.5 | 0 | C | 10.7 | 0 | 313 | 6.6 | -6.3 | 3.3 | 4 | C |
| 12 | 440 | 1.8 | 68 | L | 10.3 | -21 | 292 | 3.3 | -8.9 | 0.7 | 4 | J |
| 13 | 475 | 2.4 | 129 | L | 10.4 | -23 | 293 | 2.7 | -7.0 | 0.1 | 7 | J |
| 14 | 496 | 2.2 | 90 | J | 10.6 | -71 | 350 | 2.4 | -3.3 | -6.4 | 7 | J |
| 15 | 460 | 2.2 | 174 | L | 12.0 | 24 | 279 | 1.7 | -8.1 | 8.3 | 3 | J |
| 16 | 473 | 2.1 | 104 | J | 11.5 | 35 | 286 | 2.5 | -6.3 | 8.9 | 2 | J |
| 17 | 464 | 2.8 | 88 | J | 11.1 | 39 | 291 | 3.1 | -5.8 | 8.8 | 2 | J |
| 18 | 451 | 2.8 | 0 | C | 12.0 | 49 | 294 | 3.3 | -5.1 | 10.3 | 1 | C |
| 19 | 427 | 2.8 | 211 | L | 11.9 | 24 | 299 | 5.1 | -8.3 | 6.2 | 3 | J |
| 20 | 444 | 2.5 | 75 | J | 12.2 | 39 | 320 | 6.8 | -4.8 | 7.9 | 4 | J |
| 21 | 434 | 4.7 | 115 | J | 13.1 | 26 | 310 | 7.2 | -8.1 | 6.3 | 4 | J |
| 22 | 423 | 4.3 | 81 | J | 12.7 | 9 | 302 | 6.3 | -9.9 | 2.6 | 4 | J |
| 23 | 437 | 6.5 | 0 | C | 11.2 | -23 | 305 | 5.1 | -7.5 | -3.3 | 5 | C |
| 24 | 507 | 5.5 | 148 | J | 8.4 | 56 | 11 | 3.8 | 1.1 | 5.7 | 5 | J |

### NOV. 11, 1980

316

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 468 | 6.1 | 149 | J | 8.2 | 11 | 0 | 6.5 | 0.1 | 1.3 | 5 | J |
| 2 | 471 | 7.4 | 0 | C | 8.7 | -38 | 341 | 6.2 | -2.7 | -4.8 | 3 | J |
| 3 | 473 | 7.5 | 0 | C | 8.6 | -9 | 333 | 6.9 | -3.7 | -0.6 | 3 | C |
| 4 | 483 | 7.6 | 0 | C | 9.7 | -8 | 336 | 7.2 | -3.4 | -0.4 | 5 | C |
| 5 | 481 | 7.5 | 0 | C | 11.6 | 12 | 324 | 7.5 | -4.8 | 3.4 | 6 | C |
| 6 | 495 | 10.0 | 0 | C | 9.6 | 56 | 343 | 4.0 | 0.9 | 6.3 | 5 | C |
| 7 | 497 | 10.6 | 0 | C | 9.7 | 3 | 292 | 2.8 | -6.4 | 3.1 | 5 | C |
| 8 | 498 | 10.0 | 0 | C | 9.6 | -11 | 316 | 4.5 | -4.4 | 0.7 | 7 | C |
| 9 | 507 | 8.9 | 0 | C | 10.2 | -47 | 346 | 6.2 | -4.5 | -5.5 | 3 | C |
| 10 | 517 | 7.9 | 0 | C | 10.8 | 52 | 290 | 1.4 | -1.0 | 6.4 | 8 | C |
| 11 | 525 | 7.7 | 0 | C | 10.7 | 26 | 263 | -1.0 | -5.9 | 7.9 | 3 | C |
| 12 | 518 | 6.6 | 248 | J | 9.5 | -10 | 306 | 4.3 | -5.8 | 1.5 | 6 | J |
| 13 | 565 | 4.1 | 240 | J | 9.5 | 50 | 330 | 4.2 | 0.3 | 6.3 | 6 | J |
| 14 | 584 | 3.1 | 269 | J | 9.7 | 28 | 308 | 4.8 | -4.0 | 6.3 | 4 | J |
| 15 | 591 | 3.7 | 248 | J | 9.3 | 0 | 315 | 5.7 | -5.3 | 2.0 | 5 | J |
| 16 | 601 | 4.2 | 0 | C | 8.9 | -9 | 309 | 4.9 | -6.3 | 0.7 | 3 | C |
| 17 | 637 | 3.8 | 261 | J | 8.0 | 57 | 63 | 1.9 | 5.4 | 5.3 | 2 | J |
| 18 | 639 | 3.8 | 242 | J | 8.1 | -48 | 20 | 2.9 | 0.3 | -3.6 | 7 | J |
| 19 | 624 | 3.9 | 242 | J | 7.1 | -52 | 3 | 3.9 | -0.6 | -5.0 | 3 | J |
| 20 | 635 | 3.7 | 213 | J | 6.9 | 15 | 334 | 3.6 | -1.6 | 1.3 | 5 | J |
| 21 | 628 | 3.6 | 180 | J | 6.5 | -6 | 346 | 4.0 | -1.0 | -0.3 | 5 | J |
| 22 | 616 | 3.4 | 144 | J | 6.5 | -21 | 3 | 5.3 | 0.1 | -2.1 | 3 | J |
| 23 | 620 | 3.1 | 132 | J | 6.1 | -6 | 1 | 4.9 | 0.1 | -0.5 | 3 | J |
| 24 | 631 | 3.2 | 134 | J | 6.0 | -10 | 326 | 3.7 | -2.5 | -0.6 | 4 | J |

### NOV. 12, 1980

317

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 650 | 3.7 | 153 | J | 6.1 | -35 | 318 | 2.9 | -2.8 | -2.5 | 4 | J |
| 2 | 655 | 3.7 | 148 | J | 6.0 | -16 | 289 | 1.1 | -3.4 | -0.6 | 5 | J |
| 3 | 613 | 3.8 | 140 | J | 6.4 | -16 | 339 | 4.8 | -2.1 | -1.2 | 3 | J |
| 4 | 586 | 3.3 | 123 | J | 6.3 | -5 | 5 | 5.9 | 0.4 | -0.6 | 2 | J |
| 5 | 583 | 3.3 | 96 | J | 6.6 | -5 | 357 | 6.5 | -0.5 | -0.5 | 1 | J |
| 6 | | | | | 7.7 | -1 | 352 | 7.6 | -1.1 | 0.2 | 1 | J |
| 7 | | | | | | | | | | | | |
| 8 | 570 | 3.3 | 0 | C | | | | | | | | |
| 9 | 570 | 3.3 | 0 | C | 6.6 | 5 | 2 | 6.5 | 0.4 | 0.4 | 1 | C |
| 10 | 569 | 3.4 | 0 | C | 6.4 | 4 | 6 | 6.2 | 0.8 | 0.1 | 1 | C |
| 11 | 566 | 3.3 | 0 | C | 6.3 | -13 | 1 | 6.0 | -0.6 | -1.3 | 1 | C |
| 12 | 562 | 3.5 | 0 | C | 6.4 | -14 | 350 | 6.0 | -1.6 | -0.9 | 1 | C |
| 13 | 559 | 3.4 | 0 | C | 6.4 | 11 | 4 | 5.9 | 0.9 | 0.9 | 2 | C |
| 14 | 545 | 3.4 | 0 | C | 6.3 | 6 | 358 | 6.1 | 0.1 | 0.6 | 1 | C |
| 15 | 533 | 3.2 | 0 | C | 6.1 | 0 | 356 | 6.1 | -0.4 | 0.1 | 1 | C |
| 16 | 543 | 3.3 | 0 | C | 6.0 | 3 | 357 | 5.8 | -0.2 | 0.4 | 1 | C |
| 17 | 533 | 3.3 | 0 | C | 5.8 | 12 | 10 | 5.5 | 1.3 | 0.9 | 1 | C |
| 18 | 543 | 3.5 | 0 | C | 6.0 | 24 | 341 | 5.1 | -1.2 | 2.7 | 1 | C |
| 19 | 539 | 3.6 | 0 | C | 5.3 | -1 | 356 | 5.1 | -0.4 | -0.0 | 1 | J |
| 20 | 498 | 4.5 | 151 | J | 4.7 | 16 | 336 | 3.9 | -1.6 | 1.4 | 2 | J |
| 21 | 526 | 4.8 | 109 | J | 5.0 | 9 | 258 | -0.7 | -3.1 | 0.8 | 4 | J |
| 22 | 567 | 6.4 | 103 | J | 7.6 | 12 | 202 | -6.4 | -2.5 | 1.6 | 3 | J |
| 23 | 576 | 6.2 | 125 | J | 7.3 | 19 | 213 | -5.5 | -3.4 | 2.4 | 2 | J |
| 24 | 549 | 6.0 | 125 | J | 7.1 | -17 | 229 | -4.3 | -5.1 | -1.7 | 2 | J |

### NOV. 13, 1980

318

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 504 | 5.5 | 105 | J | 6.6 | 1 | 258 | -1.2 | -5.5 | 0.5 | 3 | J |
| 2 | 499 | 5.3 | 0 | C | 6.0 | 17 | 281 | 1.0 | -4.9 | 2.1 | 3 | J |
| 3 | 520 | 4.1 | 0 | C | 6.3 | 36 | 5 | 4.4 | 0.9 | 3.1 | 3 | J |
| 4 | 506 | 3.9 | 57 | J | 6.8 | 19 | 11 | 5.9 | 1.6 | 1.8 | 2 | J |
| 5 | 519 | 3.6 | 0 | C | 6.8 | 24 | 356 | 6.1 | 0.3 | 2.7 | 1 | J |
| 6 | 506 | 3.8 | 57 | J | 6.2 | 24 | 346 | 5.4 | -0.5 | 2.8 | 1 | J |
| 7 | 475 | 4.4 | 127 | J | 5.4 | 16 | 348 | 4.7 | -0.4 | 1.7 | 2 | J |
| 8 | 467 | 4.6 | 52 | J | 5.7 | 10 | 321 | 3.6 | -2.3 | 1.9 | 3 | J |
| 9 | 477 | 5.7 | 51 | J | 5.9 | -24 | 255 | -1.4 | -5.5 | 0.1 | 1 | J |
| 10 | 453 | 5.4 | 0 | C | 5.6 | -10 | 243 | -2.5 | -4.7 | 1.3 | 1 | J |
| 11 | 448 | 4.9 | 0 | C | | | | | | | | |
| 12 | 448 | 4.9 | 0 | C | 6.7 | 3 | 228 | -4.4 | -4.3 | 2.5 | 0 | C |
| 13 | | | | | | | | | | | | |
| 14 | 452 | 4.4 | 0 | C | 6.4 | -2 | 253 | -1.8 | -5.5 | 2.1 | 1 | C |
| 15 | 432 | 4.8 | 0 | C | 6.6 | -6 | 247 | -2.5 | -5.7 | 1.5 | 1 | C |
| 16 | 436 | 4.5 | 0 | C | 6.3 | -12 | 269 | -0.1 | -5.8 | 0.6 | 2 | C |
| 17 | | | | | | | | | | | | |
| 18 | 441 | 4.7 | 0 | C | 6.5 | -20 | 275 | 0.5 | -6.3 | -0.9 | 1 | C |
| 19 | 421 | 3.5 | 37 | J | 5.6 | -23 | 309 | 3.0 | -4.0 | -1.4 | 2 | C |
| 20 | 406 | 4.5 | 0 | C | 5.8 | -31 | 340 | 4.7 | -2.0 | -2.8 | 0 | J |
| 21 | 400 | 5.0 | 0 | C | 5.9 | -22 | 291 | 1.0 | -2.8 | -0.9 | 5 | C |
| 22 | 450 | 2.7 | 61 | J | 4.8 | -6 | 300 | 2.4 | -4.2 | -0.3 | 1 | J |
| 23 | 446 | 2.9 | 88 | J | 4.7 | 16 | 352 | 3.5 | -0.4 | 1.0 | 3 | J |
| 24 | 468 | 3.6 | 66 | J | 4.7 | 26 | 277 | 0.3 | -2.6 | 1.5 | 4 | J |

### NOV. 14, 1980

319

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 423 | 4.4 | 60 | J | 4.4 | -2 | 317 | 2.1 | -2.0 | 0.0 | 3 | J |
| 2 | 438 | 4.7 | 57 | J | 4.7 | 9 | 303 | 2.1 | -3.2 | 1.0 | 3 | J |
| 3 | 425 | 5.4 | 59 | J | 5.4 | -11 | 288 | 1.4 | -4.3 | -0.2 | 3 | J |
| 4 | 414 | 5.0 | 58 | J | 5.3 | -12 | 325 | 3.4 | -2.5 | -0.4 | 3 | J |
| 5 | 410 | 4.9 | 35 | J | 5.4 | 22 | 322 | 3.6 | -2.2 | 2.5 | 2 | J |
| 6 | 430 | 4.7 | 50 | J | 5.0 | -11 | 284 | 1.0 | -4.1 | 0.5 | 3 | J |
| 7 | 426 | 4.8 | 42 | J | 5.0 | 39 | 294 | 1.5 | -2.1 | 4.1 | 1 | J |
| 8 | 415 | 4.5 | 38 | J | 5.5 | 3 | 296 | 2.1 | -3.8 | 1.9 | 3 | J |
| 9 | 413 | 4.5 | 50 | J | 5.5 | 4 | 302 | 2.3 | -3.2 | 1.9 | 3 | J |
| 10 | 424 | 4.6 | 42 | J | 5.4 | 18 | 283 | 1.0 | -3.2 | 3.2 | 3 | J |
| 11 | 403 | 4.6 | 67 | J | 5.3 | -47 | 323 | 2.3 | -3.0 | -2.0 | 3 | J |
| 12 | 416 | 5.8 | 77 | J | 6.1 | -22 | 317 | 3.3 | -3.5 | -0.3 | 4 | J |
| 13 | 445 | 10.9 | 0 | C | 8.6 | -33 | 270 | 0.0 | -6.9 | -1.1 | 4 | C |
| 14 | 425 | 12.0 | 0 | C | 10.1 | 28 | 327 | 6.5 | -2.3 | 5.5 | 4 | C |
| 15 | 438 | 9.3 | 0 | C | 9.6 | -27 | 272 | 0.3 | -8.1 | -1.0 | 4 | C |
| 16 | 430 | 8.8 | 0 | C | 6.5 | -48 | 299 | 1.9 | -4.6 | -3.2 | 3 | C |
| 17 | 417 | 7.5 | 0 | C | 6.6 | 27 | 342 | 4.6 | -0.8 | 2.8 | 3 | C |
| 18 | 423 | 5.6 | 0 | C | 7.2 | -40 | 284 | 1.2 | -5.2 | -3.0 | 3 | C |
| 19 | 417 | 5.7 | 0 | C | 7.6 | -24 | 260 | -1.2 | -6.6 | -1.9 | 3 | C |
| 20 | 431 | 4.8 | 148 | J | 6.7 | -9 | 281 | 1.1 | -5.7 | -0.3 | 3 | C |
| 21 | 444 | 5.5 | 308 | J | 6.5 | 13 | 312 | 3.9 | -4.3 | 1.7 | 2 | C |
| 22 | 416 | 6.5 | 0 | C | 7.7 | -7 | 327 | 5.9 | -3.8 | -0.6 | 3 | C |
| 23 | 425 | 5.7 | 0 | C | 9.0 | 38 | 344 | 6.5 | -1.6 | 5.3 | 2 | C |
| 24 | 449 | 5.0 | 0 | C | 9.7 | 44 | 49 | 4.3 | 5.3 | 6.3 | 2 | C |

### NOV. 15, 1980

320

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 511 | 6.5 | 141 | J | 8.8 | 17 | 91 | -0.2 | 8.2 | 2.0 | 2 | C |
| 2 | 497 | 7.2 | 162 | J | 7.4 | -72 | 188 | -1.7 | -0.8 | -5.4 | 4 | C |
| 3 | 484 | 7.0 | 0 | C | 8.5 | -64 | 219 | -1.9 | -2.2 | -4.6 | 6 | C |
| 4 | 477 | 7.1 | 0 | C | 9.3 | -40 | 251 | -2.2 | -7.3 | -4.2 | 2 | C |
| 5 | 489 | 8.1 | 118 | J | | | | | | | | |
| 6 | 459 | 7.4 | 141 | J | 8.9 | -5 | 276 | 0.5 | -4.6 | 1.0 | 7 | C |
| 7 | 458 | 9.5 | 161 | J | 4.9 | 52 | 51 | 1.5 | 2.8 | 2.2 | 3 | C |
| 8 | 471 | 5.8 | 121 | J | 7.3 | -23 | 78 | 1.2 | 4.2 | -4.4 | 4 | C |
| 9 | 504 | 1.9 | 102 | J | 10.4 | -48 | 85 | 0.6 | 3.0 | -9.9 | 1 | C |
| 10 | 493 | 2.2 | 93 | J | 9.9 | -33 | 84 | 0.8 | 4.9 | -8.3 | 2 | C |
| 11 | 513 | 2.1 | 84 | J | 8.9 | -6 | 86 | 0.6 | 7.4 | -4.7 | 1 | C |
| 12 | 473 | 2.1 | 198 | L | 8.4 | -17 | 105 | -2.1 | 5.8 | -5.4 | 1 | C |
| 13 | 472 | 2.2 | 216 | L | 8.1 | -3 | 107 | -2.3 | 6.7 | -3.5 | 1 | C |
| 14 | 513 | 2.4 | 91 | J | 8.1 | -8 | 113 | -2.9 | 5.9 | -3.6 | 2 | C |
| 15 | 491 | 2.8 | 110 | J | 8.0 | -20 | 116 | -3.2 | 5.2 | -4.6 | 2 | C |
| 16 | 489 | 3.4 | 122 | J | | | | | | | | |
| 17 | 454 | 3.0 | 0 | C | 7.8 | -20 | 137 | -5.2 | 4.0 | -3.7 | 2 | C |
| 18 | | | | | | | | | | | | |
| 19 | 416 | 3.1 | 0 | C | 8.5 | -17 | 118 | -3.8 | 6.8 | -3.4 | 1 | C |
| 20 | 438 | 3.4 | 104 | J | 7.9 | -33 | 150 | -5.3 | 2.7 | -4.3 | 3 | C |
| 21 | 485 | 3.7 | 0 | C | 7.6 | -41 | 210 | -4.3 | -2.7 | -4.1 | 3 | C |
| 22 | 487 | 4.4 | 0 | C | 7.9 | -36 | 237 | -1.9 | -3.2 | -2.5 | 6 | C |
| 23 | 449 | 4.6 | 86 | J | | | | | | | | |
| 24 | 430 | 4.0 | 66 | J | 7.6 | 30 | 215 | -4.7 | -3.1 | 3.4 | 3 | C |

### NOV. 16, 1980

321

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 426 | 3.7 | 43 | J | 7.5 | 7 | 209 | -6.0 | -3.2 | 1.0 | 3 | C |
| 2 | 441 | 4.7 | 0 | C | 7.8 | -22 | 175 | -5.8 | 0.3 | -2.4 | 4 | C |
| 3 | 437 | 5.1 | 0 | C | 7.9 | -30 | 136 | -4.8 | 4.0 | -4.4 | 2 | C |
| 4 | 440 | 5.3 | 0 | C | 7.5 | -33 | 124 | -3.3 | 4.1 | -4.8 | 2 | C |
| 5 | 434 | 5.5 | 0 | C | 7.6 | -15 | 120 | -3.6 | 5.6 | -3.4 | 1 | C |
| 6 | 427 | 5.4 | 0 | C | 7.8 | -21 | 133 | -4.9 | 4.2 | -4.2 | 1 | C |
| 7 | 426 | 5.5 | 0 | C | 7.9 | -9 | 127 | -4.7 | 5.3 | -3.3 | 1 | C |
| 8 | 423 | 5.8 | 0 | C | 7.9 | -20 | 149 | -5.8 | 2.2 | -3.7 | 3 | C |
| 9 | 421 | 6.2 | 0 | C | 8.2 | -11 | 133 | -5.4 | 4.5 | -3.8 | 1 | C |
| 10 | 426 | 5.7 | 0 | C | 8.6 | -17 | 123 | -4.3 | 4.9 | -5.1 | 1 | C |
| 11 | 416 | 5.8 | 0 | C | 8.5 | 5 | 139 | -6.3 | 5.3 | -1.7 | 1 | C |
| 12 | 428 | 5.6 | 0 | C | 7.9 | -15 | 151 | -5.9 | 2.2 | -3.0 | 3 | C |
| 13 | 421 | 5.0 | 0 | C | 9.0 | -12 | 134 | -6.1 | 5.0 | -4.1 | 1 | C |
| 14 | 430 | 4.7 | 0 | C | 8.9 | -12 | 141 | -6.7 | 4.4 | -3.7 | 1 | C |
| 15 | 426 | 5.0 | 0 | C | 9.1 | -16 | 124 | -4.8 | 6.8 | -4.7 | 2 | C |
| 16 | 439 | 3.8 | 0 | C | 9.5 | -2 | 118 | -4.4 | 7.7 | -2.7 | 2 | C |
| 17 | 454 | 4.1 | 0 | C | 8.9 | -7 | 141 | -6.6 | 5.0 | -2.2 | 2 | C |
| 18 | 427 | 4.4 | 0 | C | 8.8 | -7 | 156 | -7.9 | 3.2 | -1.6 | 1 | C |
| 19 | 439 | 5.0 | 0 | C | 9.3 | 42 | 198 | -6.3 | -1.3 | 6.3 | 2 | C |
| 20 | 458 | 5.0 | 0 | C | 8.9 | 38 | 207 | -5.6 | -2.4 | 5.2 | 3 | C |
| 21 | 435 | 5.5 | 0 | C | 8.9 | 36 | 208 | -4.4 | -2.1 | 3.7 | 6 | C |
| 22 | 446 | 5.6 | 0 | C | 7.7 | 28 | 182 | -5.0 | -0.1 | 2.7 | 4 | C |
| 23 | 444 | 5.7 | 0 | C | 8.1 | 27 | 214 | -5.8 | -3.8 | 3.6 | 2 | C |

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322

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 445 | 6.6 | 0 | C | 8.9 | 24 | 209 | -6.0 | -3.2 | 3.2 | 4 | C |
| 2 | 465 | 6.2 | 0 | C | 8.1 | 7 | 214 | -4.6 | -3.1 | 0.9 | 5 | C |
| 3 | 447 | 5.9 | 0 | C | 8.4 | -12 | 210 | -6.8 | -4.1 | -1.1 | 2 | C |
| 4 | 456 | 5.8 | 0 | C | 8.5 | -16 | 227 | -4.1 | -4.7 | -0.9 | 5 | C |
| 5 | 465 | 5.5 | 0 | C | 8.6 | 27 | 230 | -4.3 | -4.2 | 4.5 | 4 | C |
| 6 | 453 | 5.0 | 0 | C | 7.8 | 6 | 178 | -6.9 | 0.4 | 0.6 | 3 | C |
| 7 | 462 | 5.0 | 0 | C | 8.7 | -8 | 128 | -5.1 | 5.8 | -3.4 | 1 | C |
| 8 | 474 | 5.3 | 0 | C | 8.5 | 15 | 180 | -6.5 | 0.7 | 1.7 | 5 | C |
| 9 | 491 | 5.0 | 0 | C | 7.7 | 43 | 226 | -3.0 | -1.1 | 4.9 | 4 | C |
| 10 | 508 | 4.4 | 0 | C | 8.1 | 14 | 153 | -6.3 | 3.7 | 0.2 | 3 | C |
| 11 | 525 | 4.0 | 0 | C | 8.7 | 19 | 138 | -5.8 | 6.0 | 0.2 | 2 | C |
| 12 | | | | | | | | | | | | |
| 13 | 467 | 5.5 | 0 | C | 9.0 | 3 | 122 | -4.6 | 7.0 | -2.5 | 2 | C |
| 14 | | | | | | | | | | | | |
| 15 | 426 | 3.5 | 0 | C | 8.5 | 11 | 153 | -7.4 | 4.1 | 0.2 | 1 | C |
| 16 | 424 | 4.1 | 0 | C | 8.4 | 3 | 144 | -6.4 | 4.6 | -0.9 | 2 | C |
| 17 | 518 | 2.6 | 0 | C | 8.5 | 1 | 147 | -6.2 | 3.9 | -0.8 | 3 | C |
| 18 | | | | | | | | | | | | |
| 19 | 396 | 3.4 | 0 | C | 8.8 | 2 | 141 | -6.2 | 5.0 | -0.4 | 3 | C |
| 20 | 341 | 4.7 | 0 | C | 9.1 | -2 | 155 | -7.3 | 3.3 | -0.6 | 4 | C |
| 21 | 355 | 4.8 | 0 | C | 9.2 | 11 | 162 | -7.9 | 2.6 | 1.5 | 3 | C |
| 22 | 361 | 4.1 | 0 | C | 8.9 | 6 | 162 | -7.9 | 2.7 | 0.7 | 3 | C |
| 23 | 523 | 2.9 | 0 | C | 9.2 | 3 | 137 | -5.8 | 5.5 | 0.3 | 3 | C |
| 24 | 515 | 3.1 | 0 | C | 9.0 | 0 | 139 | -6.3 | 5.5 | -0.1 | 2 | C |

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323

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 517 | 3.4 | 0 | C | 8.9 | 3 | 143 | -6.7 | 5.1 | 0.2 | 2 | C |
| 2 | 560 | 3.0 | 0 | C | 8.9 | 3 | 141 | -6.6 | 5.4 | 0.1 | 2 | C |
| 3 | 555 | 2.8 | 0 | C | 8.7 | 12 | 140 | -6.4 | 5.5 | 1.0 | 1 | C |
| 4 | 584 | 2.8 | 0 | C | 8.4 | 11 | 137 | -5.7 | 5.5 | 0.6 | 2 | C |
| 5 | | | | | | | | | | | | |
| 6 | 475 | 4.2 | 0 | C | 7.8 | -2 | 180 | -6.3 | -0.1 | -0.2 | 4 | C |
| 7 | | | | | | | | | | | | |
| 8 | 408 | 4.0 | 0 | C | 7.8 | 3 | 152 | -6.1 | 3.1 | -0.9 | 3 | C |
| 9 | | | | | | | | | | | | |
| 10 | 463 | 3.1 | 0 | C | 7.6 | 12 | 149 | -5.4 | 3.5 | -0.1 | 4 | C |
| 11 | | | | | | | | | | | | |
| 12 | 428 | 3.6 | 0 | C | 7.3 | -5 | 160 | -6.5 | 1.8 | -1.6 | 1 | C |
| 13 | 514 | 3.4 | 0 | C | 7.8 | 7 | 116 | -3.1 | 6.3 | -1.8 | 2 | C |
| 14 | | | | | | | | | | | | |
| 15 | 560 | 2.7 | 0 | C | 7.4 | -5 | 161 | -6.4 | 1.9 | -1.2 | 2 | C |
| 16 | 534 | 2.4 | 0 | C | 7.6 | -30 | 164 | -5.8 | 0.7 | -3.8 | 2 | C |
| 17 | 524 | 2.4 | 0 | C | 7.7 | -14 | 145 | -5.8 | 3.6 | -2.7 | 2 | C |
| 18 | 537 | 2.3 | 0 | C | 8.3 | 2 | 115 | -3.1 | 6.7 | -1.0 | 3 | C |
| 19 | 509 | 2.5 | 0 | C | | | | | | | | |
| 20 | 505 | 2.5 | 0 | C | 8.0 | -15 | 133 | -5.0 | 5.2 | -2.4 | 2 | C |
| 21 | 513 | 2.5 | 0 | C | 8.0 | -13 | 133 | -4.6 | 4.9 | -1.8 | 3 | C |
| 22 | 510 | 2.5 | 0 | C | 7.9 | -3 | 140 | -5.7 | 4.7 | -0.6 | 2 | C |
| 23 | 510 | 2.7 | 0 | C | 7.6 | -19 | 136 | -4.5 | 4.2 | -2.2 | 3 | C |
| 24 | 530 | 3.3 | 0 | C | 7.6 | 45 | 123 | -2.6 | 4.2 | 4.9 | 2 | C |

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324

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 522 | 3.2 | 0 | C | 7.4 | -16 | 134 | -4.5 | 4.5 | -2.1 | 2 | C |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | 6.4 | -5 | 174 | -6.3 | 0.4 | -0.7 | 1 | C |
| 8 | | | | | 6.0 | -22 | 124 | -2.1 | 2.3 | -2.6 | 4 | C |
| 9 | | | | | 6.3 | -18 | 68 | 2.0 | 3.9 | -3.7 | 2 | C |
| 10 | | | | | 6.3 | -29 | 68 | 1.9 | 3.0 | -4.5 | 2 | C |
| 11 | | | | | 6.2 | -62 | 71 | 0.9 | 0.1 | -6.1 | 1 | C |
| 12 | | | | | | | | | | | | |
| 13 | | | | | 5.7 | 2 | 144 | -4.2 | 2.9 | -1.1 | 2 | C |
| 14 | | | | | 5.6 | -36 | 174 | -4.4 | -0.7 | -3.2 | 1 | C |
| 15 | | | | | 5.3 | -31 | 175 | -4.1 | -0.4 | -2.5 | 2 | C |
| 16 | | | | | 5.1 | -42 | 185 | -3.6 | -1.2 | -3.0 | 1 | C |
| 17 | | | | | 5.4 | -28 | 161 | -3.8 | 0.8 | -2.4 | 3 | C |
| 18 | | | | | 4.9 | -20 | 107 | -1.3 | 3.8 | -2.2 | 1 | C |
| 19 | | | | | 4.7 | 3 | 73 | 1.2 | 3.7 | -0.2 | 2 | C |
| 20 | | | | | 5.1 | -4 | 59 | 2.5 | 4.1 | -0.6 | 1 | C |
| 21 | | | | | 5.5 | -4 | 80 | 0.6 | 3.6 | -0.4 | 3 | C |
| 22 | | | | | 5.7 | 19 | 79 | 0.9 | 4.9 | 1.7 | 2 | C |
| 23 | | | | | 8.4 | 0 | 62 | 3.2 | 6.1 | -0.1 | 4 | C |
| 24 | | | | | 8.8 | -10 | 51 | 3.7 | 4.5 | -1.1 | 6 | C |

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325

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 7.1 | -19 | 171 | -4.3 | 0.7 | -1.6 | 5 | C |
| 2 | | | | | 6.6 | 42 | 102 | -0.7 | 3.4 | 2.8 | 4 | C |
| 3 | | | | | 6.5 | 52 | 125 | -1.3 | 2.1 | 2.6 | 5 | C |
| 4 | | | | | 7.1 | 32 | 118 | -2.3 | 4.8 | 2.3 | 4 | C |
| 5 | | | | | 4.3 | -18 | 78 | 0.6 | 2.5 | -1.5 | 3 | C |
| 6 | | | | | 3.9 | 1 | 161 | -3.5 | 1.1 | -0.3 | 1 | C |
| 7 | | | | | 4.1 | -20 | 133 | -2.5 | 2.0 | -2.1 | 1 | C |
| 8 | | | | | 5.1 | -28 | 145 | -3.6 | 1.5 | -3.1 | 1 | C |
| 9 | | | | | 5.4 | -25 | 129 | -3.0 | 2.5 | -3.6 | 1 | C |
| 10 | 430 | 6.6 | 143 | L | 4.6 | -35 | 161 | -3.2 | -0.0 | -2.6 | 2 | C |
| 11 | 425 | 10.3 | 111 | L | 4.5 | -40 | 129 | -2.1 | 1.2 | -3.6 | 1 | C |
| 12 | 435 | 11.6 | 103 | L | | | | | | | | |
| 13 | 438 | 13.0 | 93 | L | 4.5 | -34 | 162 | -3.4 | 0.1 | -2.6 | 1 | C |
| 14 | 424 | 13.1 | 101 | L | 4.1 | -5 | 109 | -1.2 | 3.1 | -1.5 | 2 | C |
| 15 | 419 | 10.3 | 105 | L | 5.5 | -11 | 114 | -2.1 | 4.1 | -2.4 | 2 | C |
| 16 | 423 | 14.8 | 119 | L | 9.0 | -9 | 125 | -4.7 | 6.2 | -3.0 | 3 | C |
| 17 | 425 | 17.8 | 83 | L | 7.6 | 10 | 335 | 2.0 | -0.8 | 0.6 | 7 | C |
| 18 | | | | | 9.7 | 12 | 27 | 8.2 | 4.5 | 1.3 | 3 | C |
| 19 | | | | | 7.8 | -23 | 254 | -1.1 | -4.1 | -1.3 | 6 | C |
| 20 | 430 | 25.8 | 51 | L | 9.2 | 10 | 64 | 3.7 | 7.9 | 0.9 | 2 | C |
| 21 | 411 | 34.2 | 51 | L | 10.7 | 60 | 94 | -0.1 | 2.4 | 3.9 | 9 | C |
| 22 | | | | | 16.1 | 63 | 257 | -1.6 | -6.8 | 14.4 | 3 | C |
| 23 | | | | | 13.6 | 71 | 329 | 3.7 | -2.1 | 12.6 | 2 | C |
| 24 | | | | | 13.6 | 47 | 308 | 5.6 | -7.2 | 9.8 | 2 | C |

NOV. 21, 1980

326

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 12.5 | 43 | 303 | 4.8 | -7.2 | 8.4 | 2 | C |
| 2 | | | | | 11.3 | 50 | 285 | 1.2 | -4.0 | 5.6 | 8 | C |
| 3 | | | | | 11.2 | 14 | 315 | 7.6 | -7.1 | 3.4 | 2 | C |
| 4 | 564 | 7.8 | 205 | J | 9.9 | -18 | 0 | 7.5 | -0.4 | -2.4 | 6 | J |
| 5 | 581 | 7.5 | 235 | J | 9.2 | -48 | 348 | 5.2 | -2.4 | -5.5 | 5 | J |
| 6 | 574 | 7.4 | 198 | J | 9.8 | 13 | 315 | 5.4 | -4.7 | 3.2 | 6 | J |
| 7 | 569 | 7.4 | 234 | J | 9.9 | -25 | 323 | 6.8 | -6.2 | -2.1 | 3 | J |
| 8 | 562 | 8.0 | 202 | J | 10.4 | 9 | 329 | 7.7 | -3.8 | 3.0 | 5 | J |
| 9 | 576 | 9.3 | 235 | J | 11.0 | 9 | 327 | 6.7 | -3.5 | 2.9 | 7 | J |
| 10 | 562 | 7.7 | 154 | J | 10.4 | -6 | 334 | 8.0 | -4.0 | 0.8 | 5 | J |
| 11 | 558 | 6.8 | 85 | J | 9.7 | -6 | 342 | 8.6 | -2.9 | 0.3 | 3 | J |
| 12 | 558 | 6.6 | 84 | J | 9.3 | 15 | 338 | 7.9 | -2.0 | 3.4 | 3 | J |
| 13 | 557 | 6.1 | 88 | J | 8.6 | 16 | 331 | 7.1 | -2.8 | 3.6 | 2 | J |
| 14 | 549 | 4.7 | 97 | J | 8.5 | 8 | 323 | 6.6 | -4.3 | 2.8 | 1 | J |
| 15 | 535 | 3.6 | 84 | J | 8.4 | 10 | 341 | 7.6 | -2.1 | 2.2 | 2 | J |
| 16 | 530 | 3.9 | 122 | J | 8.7 | 4 | 339 | 7.8 | -2.8 | 1.3 | 2 | J |
| 17 | | | | | 8.7 | -5 | 336 | 7.6 | -3.5 | -0.1 | 2 | C |
| 18 | 570 | 4.4 | 157 | J | 6.1 | 39 | 268 | -0.1 | -2.1 | 2.4 | 5 | J |
| 19 | 584 | 7.1 | 71 | J | 7.2 | 5 | 187 | -7.0 | -0.8 | 0.7 | 1 | J |
| 20 | 585 | 6.9 | 63 | J | 7.6 | 2 | 201 | -6.6 | -2.5 | 0.4 | 3 | J |
| 21 | 560 | 5.6 | 77 | J | 8.1 | 4 | 252 | -2.3 | -7.2 | 0.7 | 3 | J |
| 22 | 561 | 6.1 | 93 | J | 7.5 | -4 | 224 | -5.0 | -4.8 | -0.4 | 3 | J |
| 23 | 546 | 6.0 | 141 | J | 6.8 | -6 | 227 | -3.5 | -3.8 | -0.6 | 4 | J |
| 24 | 542 | 5.5 | 120 | J | 7.4 | 12 | 251 | -1.9 | -5.6 | 1.3 | 4 | J |

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327

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 554 | 5.5 | 208 | J | 8.1 | 15 | 273 | 0.3 | -6.7 | 1.9 | 4 | J |
| 2 | 552 | 6.5 | 216 | J | 8.9 | 13 | 276 | 0.9 | -8.1 | 2.3 | 3 | J |
| 3 | 576 | 7.4 | 131 | J | 8.4 | 34 | 259 | -0.8 | -3.7 | 3.1 | 7 | J |
| 4 | 571 | 6.7 | 141 | J | 7.5 | -1 | 287 | 1.7 | -5.4 | 0.7 | 5 | J |
| 5 | 533 | 6.5 | 150 | J | 7.2 | -26 | 340 | 6.0 | -2.8 | -2.6 | 1 | J |
| 6 | | | | | 6.8 | -11 | 1 | 6.6 | -0.2 | -1.3 | 0 | J |
| 7 | 529 | 5.0 | 146 | J | 6.8 | -11 | 358 | 6.3 | -0.6 | -1.1 | 2 | J |
| 8 | 530 | 4.6 | 113 | J | 6.9 | -4 | 6 | 6.8 | 0.5 | -0.7 | 0 | J |
| 9 | 523 | 4.4 | 74 | J | 6.9 | -9 | 2 | 6.8 | -0.2 | -1.1 | 1 | J |
| 10 | 519 | 4.6 | 73 | J | 6.7 | -8 | 356 | 6.5 | -0.8 | -0.7 | 1 | J |
| 11 | | | | | 6.6 | -10 | 352 | 6.3 | -1.3 | -0.7 | 1 | C |
| 12 | 509 | 5.7 | 62 | J | 6.8 | -9 | 342 | 6.3 | -2.3 | -0.2 | 1 | J |
| 13 | 512 | 5.8 | 67 | J | 7.1 | 5 | 331 | 6.1 | -2.9 | 1.8 | 2 | J |
| 14 | 505 | 5.4 | 75 | J | 6.9 | 1 | 339 | 6.3 | -2.3 | 0.9 | 1 | J |
| 15 | 508 | 6.8 | 69 | J | 7.5 | 7 | 315 | 4.7 | -4.2 | 2.2 | 3 | J |
| 16 | 520 | 7.6 | 68 | J | 7.4 | 20 | 299 | 3.2 | -5.0 | 3.8 | 2 | J |
| 17 | | | | | 7.5 | 21 | 305 | 3.9 | -5.0 | 3.7 | 1 | C |
| 18 | 497 | 7.2 | 79 | J | 8.1 | 33 | 319 | 5.0 | -3.7 | 4.9 | 2 | J |
| 19 | 500 | 7.2 | 60 | J | 7.9 | 47 | 315 | 3.6 | -3.1 | 5.8 | 2 | J |
| 20 | 470 | 6.7 | 34 | J | 8.5 | 35 | 346 | 6.3 | -1.3 | 4.6 | 3 | J |
| 21 | 458 | 6.8 | 34 | J | 8.7 | 5 | 333 | 7.2 | -3.7 | 0.8 | 3 | J |
| 22 | 452 | 7.0 | 28 | J | 8.6 | -3 | 341 | 7.9 | -2.7 | -0.4 | 2 | J |
| 23 | 439 | 7.5 | 38 | J | 8.7 | -8 | 359 | 8.6 | -0.1 | -1.2 | 1 | J |
| 24 | 449 | 8.3 | 41 | J | 8.6 | 2 | 2 | 8.5 | 0.3 | 0.3 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 429 | 6.4 | 29 | J | 8.7 | -4 | 359 | 8.5 | -0.2 | -0.6 | 2 | J |
| 2 | 435 | 7.0 | 43 | J | 9.0 | -15 | 9 | 7.9 | 1.2 | -2.2 | 3 | J |
| 3 | | | | | 9.1 | -10 | 7 | 8.9 | 0.9 | -1.7 | 1 | J |
| 4 | 415 | 6.9 | 32 | J | 8.6 | 7 | 355 | 8.3 | -0.6 | 1.1 | 1 | J |
| 5 | 414 | 5.6 | 28 | J | 7.9 | 19 | 360 | 7.3 | 0.5 | 2.5 | 2 | J |
| 6 | | | | | 8.6 | 32 | 1 | 7.0 | 1.2 | 4.2 | 2 | C |
| 7 | | | | | 8.5 | 29 | 331 | 5.0 | -1.6 | 3.9 | 4 | C |
| 8 | | | | | 7.3 | 22 | 321 | 4.1 | -2.4 | 3.2 | 4 | C |
| 9 | 476 | 5.1 | 133 | J | 6.4 | 56 | 12 | 3.4 | 2.6 | 4.5 | 2 | J |
| 10 | 495 | 6.8 | 172 | J | 6.4 | 62 | 258 | -0.6 | -0.4 | 6.2 | 2 | J |
| 11 | 468 | 6.3 | 112 | J | 6.8 | 40 | 319 | 3.6 | -1.3 | 4.9 | 3 | J |
| 12 | 461 | 6.3 | 93 | J | 7.1 | 34 | 315 | 4.2 | -2.3 | 5.3 | 0 | J |
| 13 | 455 | 6.2 | 59 | J | 8.4 | 36 | 322 | 5.4 | -2.1 | 6.1 | 1 | J |
| 14 | 452 | 5.7 | 51 | J | 8.6 | 39 | 323 | 5.3 | -2.0 | 6.4 | 1 | J |
| 15 | 436 | 6.8 | 74 | J | 8.5 | 28 | 317 | 5.2 | -3.6 | 5.1 | 2 | J |
| 16 | | | | | 9.3 | -28 | 320 | 6.2 | -6.0 | -2.8 | 2 | C |
| 17 | 447 | 8.5 | 18 | J | 9.9 | -21 | 313 | 6.3 | -7.3 | -2.2 | 0 | J |
| 18 | 447 | 9.0 | 19 | J | 10.1 | -16 | 311 | 6.3 | -7.6 | -1.7 | 1 | J |
| 19 | 443 | 13.1 | 23 | J | 9.9 | -9 | 309 | 6.0 | -7.6 | -0.8 | 2 | J |
| 20 | 444 | 8.6 | 31 | J | 10.7 | -5 | 313 | 7.3 | -7.8 | -0.5 | 1 | J |
| 21 | 436 | 7.8 | 36 | J | 10.7 | 5 | 308 | 6.4 | -8.2 | 1.1 | 2 | J |
| 22 | 446 | 5.3 | 86 | J | 9.9 | 12 | 300 | 4.6 | -7.9 | 1.9 | 3 | C |
| 23 | 443 | 7.7 | 99 | J | 8.4 | -25 | 316 | 5.4 | -5.1 | -3.6 | 2 | C |
| 24 | 431 | 8.2 | 131 | J | 7.2 | -15 | 321 | 5.1 | -4.1 | -1.8 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 439 | 8.1 | 132 | J | 6.9 | 2 | 302 | 3.0 | -4.8 | 0.2 | 3 | C |
| 2 | 421 | 7.5 | 64 | J | 8.1 | -15 | 325 | 6.1 | -4.3 | -1.8 | 2 | C |
| 3 | 444 | 9.1 | 90 | J | 7.9 | -3 | 307 | 3.3 | -4.3 | 0.0 | 5 | C |
| 4 | 420 | 8.8 | 66 | J | 7.9 | -46 | 322 | 3.9 | -3.8 | -4.8 | 3 | C |
| 5 | 428 | 10.1 | 80 | J | 7.6 | -44 | 5 | 4.9 | -0.5 | -4.7 | 3 | C |
| 6 | 415 | 10.3 | 70 | J | 8.4 | -19 | 357 | 7.1 | -1.0 | -2.2 | 4 | C |
| 7 | 429 | 10.0 | 82 | J | 7.7 | 31 | 290 | 2.3 | -4.7 | 5.7 | 0 | J |
| 8 | 419 | 9.6 | 81 | J | 6.8 | 5 | 323 | 3.7 | -2.4 | 1.3 | 5 | J |
| 9 | 458 | 9.0 | 95 | J | 6.0 | -76 | 14 | 0.5 | -0.7 | -2.1 | 6 | J |
| 10 | 464 | 6.9 | 95 | J | 6.1 | 21 | 292 | 1.4 | -2.7 | 2.7 | 4 | J |
| 11 | 464 | 5.0 | 96 | J | 6.3 | 29 | 292 | 1.9 | -3.2 | 4.4 | 3 | J |
| 12 | 469 | 4.3 | 78 | J | 6.7 | 18 | 298 | 2.8 | -4.1 | 3.8 | 3 | J |
| 13 | 463 | 3.3 | 81 | J | 6.6 | -2 | 298 | 3.0 | -5.3 | 1.8 | 2 | J |
| 14 | 458 | 3.4 | 64 | J | 6.7 | -3 | 307 | 3.8 | -4.9 | 1.4 | 2 | J |
| 15 | | | | | 6.6 | -27 | 297 | 2.5 | -5.5 | -1.2 | 2 | C |
| 16 | 463 | 4.2 | 60 | J | 6.2 | -34 | 295 | 2.0 | -4.9 | -2.1 | 3 | J |
| 17 | 464 | 3.9 | 62 | J | 5.6 | 0 | 289 | 1.5 | -4.2 | 0.8 | 3 | J |
| 18 | 463 | 4.8 | 62 | J | 5.2 | 7 | 295 | 1.9 | -3.9 | 1.1 | 3 | J |
| 19 | 454 | 4.8 | 85 | J | 5.1 | -13 | 349 | 4.5 | -1.0 | -1.0 | 2 | J |
| 20 | 454 | 4.8 | 75 | J | 5.1 | -32 | 9 | 4.1 | 0.5 | -2.6 | 1 | J |
| 21 | 471 | 5.0 | 45 | J | 5.9 | 48 | 249 | -1.3 | -3.4 | 4.1 | 2 | J |
| 22 | 477 | 4.6 | 41 | J | 6.1 | 29 | 229 | -3.4 | -4.0 | 2.9 | 1 | J |
| 23 | 470 | 4.5 | 41 | J | 6.5 | 32 | 243 | -2.4 | -4.7 | 3.1 | 2 | J |
| 24 | 560 | 14.4 | 162 | J | 14.5 | 27 | 252 | -3.5 | -10.7 | 5.5 | 7 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 569 | 17.0 | 203 | J | 11.9 | 2 | 240 | -4.9 | -8.5 | 0.3 | 7 | J |
| 2 | 550 | 19.8 | 218 | J | 9.7 | 24 | 266 | -0.5 | -6.3 | 3.0 | 7 | J |
| 3 | 542 | 19.3 | 336 | J | 8.2 | -30 | 273 | 0.3 | -6.2 | -3.0 | 5 | J |
| 4 | 532 | 21.8 | 243 | J | 9.9 | 12 | 261 | -0.9 | -5.5 | 2.0 | 8 | J |
| 5 | 503 | 23.2 | 136 | J | 9.7 | -5 | 291 | 2.8 | -7.3 | 0.7 | 6 | J |
| 6 | 492 | 20.2 | 77 | J | 14.5 | 37 | 291 | 3.9 | -7.8 | 10.5 | 5 | J |
| 7 | 519 | 30.6 | 0 | C | 14.9 | 27 | 297 | 5.2 | -8.1 | 8.7 | 7 | C |
| 8 | 529 | 35.3 | 0 | C | 14.5 | 4 | 320 | 7.4 | -5.6 | 2.8 | 10 | C |
| 9 | 491 | 26.6 | 63 | J | 14.1 | 75 | 280 | 0.6 | 1.7 | 13.7 | 3 | J |
| 10 | 496 | 26.8 | 70 | J | 13.1 | 57 | 263 | -0.8 | -2.2 | 12.5 | 3 | J |
| 11 | 494 | 24.1 | 114 | J | 13.7 | 40 | 175 | -10.1 | 4.1 | 7.5 | 4 | J |
| 12 | 485 | 22.9 | 98 | J | 13.7 | 24 | 159 | -11.7 | 6.3 | 3.5 | 1 | J |
| 13 | 460 | 31.0 | 118 | J | 11.0 | -5 | 150 | -9.4 | 4.7 | -2.8 | 1 | J |
| 14 | 458 | 27.0 | 91 | J | 10.5 | -6 | 145 | -8.5 | 5.3 | -2.9 | 1 | J |
| 15 | 445 | 26.3 | 126 | J | 7.9 | 0 | 154 | -6.9 | 3.2 | -0.9 | 2 | J |
| 16 | 452 | 26.7 | 0 | C | 9.5 | 29 | 191 | -7.9 | -0.4 | 4.8 | 2 | C |
| 17 | 445 | 25.8 | 0 | C | 9.5 | 30 | 231 | -5.0 | -5.2 | 5.7 | 2 | C |
| 18 | 434 | 23.5 | 0 | C | 9.6 | 9 | 247 | -3.7 | -8.2 | 2.5 | 2 | C |
| 19 | 429 | 23.5 | 0 | C | 7.1 | -27 | 195 | -5.5 | -1.7 | -2.7 | 3 | C |
| 20 | 414 | 22.4 | 31 | J | 12.3 | 9 | 85 | 1.0 | 11.6 | 1.4 | 3 | J |
| 21 | 417 | 36.6 | 59 | J | 9.2 | -40 | 142 | -4.0 | 3.1 | -4.3 | 7 | J |
| 22 | 432 | 35.5 | 0 | C | 10.6 | -27 | 283 | 1.2 | -5.0 | -2.8 | 9 | C |
| 23 | 432 | 34.8 | 0 | C | 10.6 | 11 | 286 | 2.8 | -9.9 | 1.7 | 2 | C |
| 24 | 414 | 37.4 | 54 | J | 7.9 | 26 | 263 | -0.4 | -3.0 | 1.4 | 8 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 408 | 7.9 | 20 | J | 15.6 | 62 | 272 | 0.2 | -7.4 | 13.6 | 2 | J |
| 2 | 420 | 8.4 | 43 | J | 14.7 | 44 | 274 | 0.7 | -9.9 | 10.0 | 4 | J |
| 3 | 414 | 14.3 | 24 | J | 14.3 | 44 | 269 | -0.2 | -9.4 | 10.5 | 2 | J |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 576 | 17.6 | 0 | C |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 576 | 17.6 | 0 | C | 24.0 | -1 | 251 | -7.9 | -21.3 | 7.3 | 2 | C |
| 9 | 542 | 15.9 | 0 | C | 18.2 | 27 | 244 | -6.4 | -9.4 | 11.7 | 7 | C |
| 10 | 492 | 17.3 | 213 | J | 12.4 | 63 | 159 | -4.7 | 5.5 | 8.4 | 6 | J |
| 11 | 509 | 17.8 | 242 | J | 11.1 | -77 | 46 | 1.5 | -2.2 | -9.2 | 6 | J |
| 12 | 486 | 16.6 | 269 | J | 9.4 | -30 | 136 | -4.4 | 2.6 | -4.8 | 6 | J |
| 13 | 472 | 14.1 | 243 | J | 10.2 | 12 | 138 | -6.0 | 5.7 | -0.3 | 6 | J |
| 14 | 460 | 15.2 | 235 | J | 11.0 | 19 | 147 | -8.1 | 6.0 | 1.5 | 4 | J |
| 15 | 443 | 13.2 | 142 | J | 12.0 | 22 | 176 | -10.8 | 1.9 | 4.0 | 3 | J |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 453 | 11.9 | 100 | J | 8.2 | -63 | 61 | 1.6 | 1.7 | -6.8 | 4 | J |
| 18 | 450 | 9.2 | 102 | J | 7.5 | 6 | 203 | -6.5 | -2.6 | 1.1 | 2 | J |
| 19 | 462 | 9.2 | 139 | J | 6.2 | -5 | 207 | -5.1 | -2.7 | -0.3 | 2 | J |
| 20 | 419 | 10.1 | 0 | C | 5.8 | 7 | 196 | -5.0 | -1.4 | 0.7 | 2 | C |
| 21 | 445 | 9.6 | 0 | C | 5.9 | 23 | 207 | -4.5 | -2.3 | 2.2 | 2 | C |
| 22 | 458 | 8.9 | 68 | J | 5.5 | 34 | 125 | -2.4 | 3.4 | 2.9 | 2 | J |
| 23 | 465 | 8.9 | 62 | J | 5.4 | 4 | 82 | 0.7 | 5.1 | 0.6 | 2 | J |
| 24 | 468 | 9.3 | 58 | J | 5.3 | -18 | 72 | 1.3 | 3.9 | -1.2 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 471 | 9.9 | 73 | J | 5.9 | -60 | 354 | 2.3 | -0.2 | -4.1 | 4 | J |
| 2 | 474 | 5.9 | 81 | J | 7.7 | -30 | 270 | -0.0 | -6.5 | -3.6 | 2 | J |
| 3 | 476 | 4.9 | 54 | J | 7.6 | 11 | 252 | -2.3 | -6.9 | 1.9 | 1 | J |
| 4 | 461 | 8.7 | 97 | J | 5.3 | 26 | 226 | -2.8 | -2.7 | 2.3 | 3 | J |
| 5 | 462 | 7.3 | 63 | J | 5.3 | 17 | 258 | -1.0 | -4.5 | 2.4 | 1 | J |
| 6 | 444 | 7.3 | 0 | C | 5.9 | 7 | 113 | -1.8 | 4.2 | -0.5 | 4 | C |
| 7 | 444 | 5.9 | 0 | C | 5.9 | -16 | 85 | 0.5 | 4.9 | -3.1 | 1 | J |
| 8 | 472 | 8.2 | 55 | J | 5.8 | 11 | 85 | 0.5 | 5.3 | -0.8 | 2 | J |
| 9 | 479 | 5.3 | 41 | J | 6.7 | -6 | 73 | 1.8 | 5.4 | -2.8 | 2 | J |
| 10 | 474 | 6.7 | 51 | J | 5.6 | -31 | 64 | 1.8 | 2.5 | -3.7 | 3 | J |
| 11 | 452 | 6.8 | 0 | C | 5.3 | -39 | 63 | 1.8 | 2.0 | -4.3 | 0 | C |
| 12 | 452 | 7.5 | 0 | C | 5.7 | -48 | 61 | 1.8 | 1.4 | -4.9 | 2 | C |
| 13 | 452 | 7.5 | 0 | C | 6.2 | -38 | 68 | 1.7 | 2.7 | -4.8 | 2 | C |
| 14 | 460 | 9.2 | 40 | J | 7.2 | -16 | 100 | -1.0 | 5.1 | -3.5 | 3 | J |
| 15 | 454 | 8.0 | 43 | J | 6.7 | 12 | 104 | -1.5 | 6.3 | -0.4 | 1 | J |
| 16 | 455 | 7.3 | 39 | J | 6.4 | 6 | 110 | -2.1 | 5.8 | -0.6 | 1 | J |
| 17 | 454 | 7.7 | 45 | J | 5.7 | -8 | 101 | -1.0 | 4.9 | -1.6 | 2 | J |
| 18 | 465 | 7.4 | 55 | J | 6.4 | -2 | 98 | -0.9 | 6.2 | -0.9 | 1 | J |
| 19 | 481 | 9.4 | 69 | J | 6.7 | -10 | 88 | 0.2 | 6.2 | -1.5 | 2 | J |
| 20 | 479 | 10.2 | 60 | J | 8.1 | 2 | 85 | 0.7 | 7.8 | 0.1 | 2 | J |
| 21 | 482 | 11.2 | 55 | J | 7.8 | 13 | 81 | 1.1 | 7.0 | 1.7 | 3 | J |
| 22 | 484 | 12.1 | 61 | J | 8.2 | -14 | 74 | 2.0 | 6.9 | -1.5 | 4 | J |
| 23 | 465 | 12.3 | 65 | J | 9.0 | -17 | 103 | -1.6 | 7.1 | -1.9 | 5 | J |
| 24 | 470 | 12.4 | 62 | J | 9.5 | 11 | 95 | -0.7 | 7.9 | 1.9 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 487 | 13.8 | 58 | J | 10.6 | -30 | 80 | 1.6 | 8.9 | -5.0 | 2 | J |
| 2 | 487 | 15.2 | 83 | J | 9.4 | -31 | 91 | -0.1 | 7.3 | -4.5 | 4 | J |
| 3 | 486 | 16.3 | 0 | C | 9.1 | 11 | 85 | 0.6 | 6.7 | 0.9 | 6 | J |
| 4 | 485 | 17.1 | 121 | J | 9.4 | -3 | 88 | 0.2 | 7.0 | -1.2 | 6 | J |
| 5 | 493 | 10.1 | 141 | J | 10.4 | 16 | 97 | -0.8 | 6.5 | 0.7 | 8 | J |
| 6 | 501 | 9.0 | 185 | J | 10.8 | -2 | 100 | -1.5 | 8.0 | -2.2 | 7 | J |
| 7 | 509 | 9.5 | 172 | J | 11.1 | -3 | 101 | -1.8 | 8.5 | -3.0 | 6 | J |
| 8 | 508 | 8.3 | 201 | J | 9.4 | 21 | 86 | 0.5 | 8.1 | 0.3 | 5 | J |
| 9 | 507 | 9.9 | 206 | J | 8.4 | 14 | 117 | -2.8 | 5.7 | -0.5 | 5 | J |
| 10 | 551 | 9.5 | 162 | J | 8.0 | -48 | 59 | 2.0 | 1.5 | -5.2 | 5 | J |
| 11 | 555 | 7.3 | 121 | J | 6.4 | -14 | 76 | 1.2 | 3.9 | -2.9 | 4 | J |
| 12 | 537 | 6.6 | 109 | J | 6.0 | -31 | 121 | -2.3 | 2.6 | -3.9 | 3 | J |
| 13 | 541 | 6.6 | 96 | J | 5.7 | -10 | 115 | -1.8 | 3.4 | -2.0 | 3 | J |
| 14 | 520 | 6.4 | 73 | J | 5.7 | -19 | 155 | -3.9 | 1.3 | -1.9 | 3 | J |
| 15 | 546 | 6.5 | 102 | J | 5.9 | 9 | 95 | -0.5 | 5.2 | -0.6 | 2 | J |
| 16 | 538 | 6.4 | 96 | J | 5.9 | 16 | 106 | -1.5 | 5.4 | 0.4 | 2 | J |
| 17 | 510 | 6.1 | 0 | C | 6.3 | 20 | 105 | -1.4 | 5.5 | 1.1 | 2 | C |
| 18 | 506 | 5.9 | 0 | C | 6.5 | -4 | 185 | -5.7 | -0.6 | -0.3 | 3 | C |
| 19 | 534 | 6.3 | 101 | J | 6.3 | 17 | 93 | -0.3 | 5.4 | 1.3 | 3 | J |
| 20 | 527 | 5.7 | 167 | L | 5.0 | 10 | 132 | -2.3 | 2.6 | 0.6 | 4 | J |
| 21 | 517 | 6.2 | 0 | C | 5.7 | -16 | 173 | -3.2 | 0.4 | -0.9 | 4 | C |
| 22 | 521 | 6.4 | 0 | C | 5.8 | -13 | 161 | -4.6 | 1.6 | -1.1 | 2 | C |
| 23 | 518 | 6.5 | 0 | C | 5.2 | 52 | 133 | -1.5 | 1.5 | 2.9 | 3 | C |
| 24 | 526 | 5.9 | 0 | C | 5.5 | 2 | 204 | -3.4 | -1.5 | 0.0 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 521 | 6.1 | 0 | C | 6.0 | 8 | 196 | -5.5 | -1.6 | 0.8 | 1 | C |
| 2 | 510 | 5.6 | 0 | C | 5.5 | -23 | 150 | -3.8 | 2.1 | -1.8 | 2 | C |
| 3 | 518 | 5.3 | 0 | C | 4.9 | -4 | 138 | -2.5 | 2.3 | -0.4 | 3 | C |
| 4 | 514 | 5.3 | 0 | C | 5.1 | 26 | 164 | -3.2 | 1.1 | 1.6 | 3 | C |
| 5 | 504 | 5.7 | 0 | C | 5.5 | -1 | 168 | -4.8 | 1.0 | -0.2 | 2 | C |
| 6 | 499 | 6.1 | 0 | C | 5.9 | -10 | 167 | -5.0 | 0.9 | -1.1 | 2 | C |
| 7 | 505 | 6.7 | 0 | C | 5.6 | -16 | 159 | -3.0 | 0.8 | -1.2 | 4 | C |
| 8 | 506 | 6.7 | 0 | C | 6.3 | 26 | 45 | 3.1 | 3.6 | 1.0 | 3 | C |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 533 | 6.9 | 0 | C | 7.8 | 30 | 76 | 1.6 | 7.3 | 1.2 | 2 | C |
| 11 | 533 | 6.9 | 0 | C | 7.4 | 22 | 66 | 2.5 | 6.1 | 0.2 | 3 | C |
| 12 | 557 | 7.0 | 0 | C | 6.3 | 2 | 62 | 2.9 | 5.1 | -1.7 | 1 | C |
| 13 | 534 | 6.9 | 0 | C | 6.4 | 4 | 52 | 3.9 | 4.8 | -1.2 | 1 | C |
| 14 | 533 | 7.3 | 0 | C | 7.2 | 6 | 34 | 5.7 | 4.0 | -0.4 | 1 | C |
| 15 | 534 | 7.3 | 0 | C | 7.8 | 18 | 17 | 7.0 | 2.7 | 1.8 | 1 | C |
| 16 | 545 | 7.1 | 0 | C | 7.9 | 27 | 31 | 5.9 | 4.1 | 2.7 | 2 | C |
| 17 | 526 | 7.4 | 0 | C | 8.0 | 29 | 38 | 5.1 | 4.6 | 3.0 | 2 | C |
| 18 | 511 | 7.5 | 0 | C | 7.3 | 9 | 59 | 3.1 | 5.1 | 0.4 | 4 | C |
| 19 | 504 | 8.7 | 0 | C | 7.7 | 21 | 42 | 4.7 | 4.3 | 2.1 | 4 | C |
| 20 | 487 | 7.7 | 0 | C | 7.4 | -13 | 67 | 2.0 | 4.6 | -1.2 | 5 | C |
| 21 | 485 | 10.0 | 0 | C | 8.0 | -5 | 39 | 5.7 | 4.5 | -0.5 | 3 | C |
| 22 | 479 | 10.9 | 0 | C | 8.1 | -16 | 64 | 3.2 | 6.8 | -1.8 | 2 | C |
| 23 | 476 | 12.2 | 0 | C | 8.1 | -21 | 63 | 3.1 | 6.1 | -2.2 | 3 | C |
| 24 | 466 | 12.5 | 0 | C | 9.7 | 13 | 154 | -8.3 | 4.0 | 2.4 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 456 | 14.8 | 0 | C | 11.1 | -1 | 114 | -4.2 | 9.3 | 0.2 | 4 | C |
| 2 | 471 | 16.5 | 0 | C | 12.1 | -20 | 67 | 4.3 | 10.1 | -4.0 | 3 | C |
| 3 | 462 | 17.4 | 0 | C | 12.0 | -27 | 58 | 4.1 | 6.3 | -4.1 | 8 | C |
| 4 | 448 | 12.7 | 0 | C | 10.3 | 33 | 281 | 1.4 | -6.6 | 5.3 | 5 | C |
| 5 | 454 | 11.7 | 0 | C | 10.1 | 6 | 301 | 4.6 | -7.6 | 2.1 | 4 | C |
| 6 | 464 | 10.9 | 0 | C | 9.8 | 40 | 299 | 3.2 | -4.4 | 6.5 | 4 | C |
| 7 | 483 | 11.4 | 0 | C | 8.5 | 20 | 330 | 6.8 | -2.9 | 3.8 | 2 | C |
| 8 | 481 | 11.4 | 0 | C | 8.7 | 13 | 342 | 7.6 | -1.7 | 2.5 | 2 | C |
| 9 | 474 | 10.1 | 0 | C | 8.6 | 11 | 333 | 7.2 | -2.8 | 2.8 | 2 | C |
| 10 | 467 | 10.1 | 0 | C | 8.5 | 14 | 332 | 7.1 | -2.8 | 3.2 | 1 | C |
| 11 | 466 | 10.2 | 0 | C |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 446 | 10.5 | 0 | C | 9.7 | -5 | 343 | 9.3 | -3.0 | 0.1 | 0 | C |
| 14 | 446 | 10.5 | 0 | C | 9.7 | -3 | 338 | 8.9 | -3.7 | 0.5 | 1 | C |
| 15 | 446 | 11.3 | 0 | C | 9.1 | -1 | 336 | 7.8 | -3.3 | 0.7 | 3 | C |
| 16 | 449 | 12.1 | 0 | C | 9.6 | -16 | 359 | 9.1 | -0.7 | -2.5 | 1 | C |
| 17 | 444 | 11.1 | 0 | C | 9.1 | -19 | 353 | 8.0 | -1.4 | -2.6 | 2 | C |
| 18 | 461 | 11.4 | 0 | C | 8.6 | -10 | 23 | 7.0 | 2.8 | -1.6 | 3 | C |
| 19 | 470 | 11.8 | 0 | C | 9.3 | -34 | 31 | 6.3 | 3.5 | -5.1 | 3 | C |
| 20 | 436 | 8.9 | 0 | C | 10.1 | -22 | 33 | 7.7 | 4.9 | -3.8 | 2 | C |
| 21 | 439 | 8.9 | 0 | C | 10.2 | -26 | 34 | 7.5 | 5.2 | -4.3 | 1 | C |
| 22 | 438 | 8.2 | 0 | C | 9.3 | -21 | 88 | 0.2 | 7.8 | -2.5 | 4 | C |
| 23 | 455 | 9.5 | 0 | C | 9.4 | -51 | 68 | 2.0 | 5.5 | -6.4 | 3 | C |
| 24 | 429 | 10.3 | 0 | C | 8.6 | -46 | 71 | 1.8 | 5.6 | -5.4 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 448 | 11.1 | 0 | C | 7.9 | -48 | 89 | 0.1 | 4.9 | -5.0 | 3 | C |
| 2 | 438 | 11.0 | 0 | C | 8.8 | -19 | 97 | -0.9 | 7.4 | -2.4 | 4 | C |
| 3 | 456 | 7.7 | 0 | C | 14.2 | -16 | 94 | -1.0 | 12.9 | -4.2 | 4 | C |
| 4 | 487 | 7.3 | 0 | C | 15.9 | 0 | 100 | -2.6 | 14.5 | -1.2 | 6 | C |
| 5 | 492 | 7.5 | 0 | C | 15.3 | 20 | 118 | -6.6 | 12.9 | 3.3 | 3 | C |
| 6 | 506 | 11.4 | 0 | C | 14.0 | 29 | 117 | -5.4 | 12.0 | 4.2 | 2 | C |
| 7 | 501 | 13.5 | 0 | C | 13.9 | 33 | 123 | -6.0 | 11.0 | 4.6 | 3 | C |
| 8 | 497 | 15.9 | 0 | C | 12.6 | 33 | 122 | -5.5 | 10.6 | 3.8 | 2 | C |
| 9 | 487 | 15.2 | 0 | C | 11.7 | 25 | 125 | -6.0 | 9.7 | 1.7 | 2 | C |
| 10 | 497 | 16.8 | 0 | C | 10.2 | 25 | 157 | -8.3 | 4.9 | 2.7 | 1 | C |
| 11 | 490 | 16.9 | 0 | C | 10.8 | 28 | 145 | -7.4 | 6.5 | 2.8 | 4 | C |
| 12 | 488 | 16.9 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 435 | 10.6 | 0 | C | 12.8 | 33 | 134 | -7.5 | 9.5 | 4.2 | 0 | C |
| 14 | 435 | 10.6 | 0 | C | 13.0 | 32 | 119 | -5.2 | 10.8 | 3.7 | 3 | C |
| 15 | 432 | 10.5 | 0 | C | 12.7 | 33 | 106 | -2.9 | 11.4 | 4.2 | 2 | C |
| 16 | 435 | 10.5 | 0 | C | 12.4 | 32 | 119 | -5.1 | 10.3 | 4.6 | 1 | C |
| 17 | 433 | 10.1 | 0 | C | 12.0 | 23 | 131 | -7.3 | 8.9 | 3.4 | 1 | C |
| 18 | 441 | 9.4 | 0 | C | 12.5 | 21 | 129 | -7.3 | 9.4 | 3.7 | 1 | C |
| 19 | 437 | 8.4 | 0 | C | 12.8 | 17 | 132 | -8.1 | 9.3 | 3.3 | 1 | C |
| 20 | 432 | 10.2 | 0 | C | 12.3 | 27 | 131 | -7.1 | 8.2 | 5.5 | 2 | C |
| 21 | 424 | 12.8 | 0 | C | 10.1 | 55 | 93 | -0.3 | 5.2 | 8.0 | 3 | C |
| 22 | 423 | 17.0 | 0 | C | 9.8 | 57 | 95 | -0.5 | 4.6 | 8.2 | 3 | C |
| 23 | 427 | 20.6 | 0 | C | 11.6 | 67 | 344 | 3.6 | -1.6 | 8.8 | 6 | C |
| 24 | 431 | 17.1 | 0 | C | 10.5 | 76 | 331 | 1.8 | -1.6 | 8.1 | 6 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 456 | 11.7 | 0 | C | 8.9 | 61 | 326 | 3.2 | -2.5 | 7.0 | 3 | C |
| 2 | 515 | 9.0 | 0 | C | 8.2 | 27 | 341 | 6.0 | -2.2 | 3.2 | 4 | C |
| 3 | 511 | 9.6 | 0 | C | 7.5 | 32 | 338 | 5.3 | -2.1 | 3.6 | 3 | C |
| 4 | 493 | 10.3 | 0 | C | 7.0 | 27 | 7 | 5.6 | 0.9 | 2.8 | 2 | C |
| 5 | 487 | 9.3 | 0 | C | 8.6 | 11 | 349 | 7.5 | -1.2 | 1.7 | 3 | C |
| 6 | 499 | 8.1 | 0 | C | 8.7 | 67 | 52 | 2.0 | 4.0 | 6.8 | 2 | C |
| 7 | 505 | 8.1 | 0 | C | 8.6 | 57 | 14 | 4.4 | 2.9 | 6.5 | 1 | C |
| 8 | 515 | 8.3 | 0 | C | 8.1 | 59 | 19 | 3.7 | 3.1 | 5.8 | 2 | C |
| 9 | 514 | 8.0 | 0 | C | 8.0 | 19 | 351 | 6.9 | -0.3 | 2.7 | 2 | C |
| 10 | 503 | 7.4 | 0 | C | 7.6 | 10 | 341 | 6.8 | -1.7 | 2.0 | 2 | C |
| 11 | 531 | 7.1 | 0 | C | 8.0 | 48 | 45 | 3.1 | 4.6 | 3.6 | 4 | C |
| 12 | 501 | 6.9 | 0 | C | 8.5 | 28 | 352 | 7.4 | 0.4 | 4.0 | 0 | C |
| 13 | 502 | 7.2 | 0 | C | 8.6 | 24 | 345 | 7.3 | -0.9 | 3.8 | 2 | C |
| 14 | 496 | 7.6 | 0 | C | 8.8 | 10 | 341 | 7.2 | -1.9 | 1.9 | 4 | C |
| 15 | 493 | 8.5 | 0 | C | 9.1 | -2 | 326 | 6.6 | -4.4 | 0.8 | 4 | C |
| 16 | 495 | 8.3 | 0 | C | 9.6 | 59 | 346 | 4.6 | 0.3 | 7.8 | 3 | C |
| 17 | 494 | 9.7 | 0 | C | 10.4 | 31 | 330 | 7.1 | -3.4 | 5.4 | 4 | C |
| 18 | 496 | 11.0 | 0 | C | 8.6 | 24 | 316 | 4.5 | -4.0 | 3.1 | 4 | C |
| 19 | 499 | 10.5 | 0 | C | 8.6 | 52 | 339 | 3.5 | -1.2 | 5.0 | 5 | C |
| 20 | 503 | 9.9 | 0 | C | 9.3 | 8 | 319 | 5.3 | -4.7 | 1.0 | 5 | C |
| 21 | 498 | 9.9 | 0 | C | 9.0 | 4 | 329 | 7.4 | -4.4 | 0.3 | 1 | C |
| 22 | 498 | 9.5 | 0 | C | 9.2 | 1 | 318 | 6.6 | -6.0 | -0.2 | 2 | C |
| 23 | 493 | 8.6 | 0 | C | 10.3 | 18 | 322 | 6.6 | -5.4 | 2.4 | 5 | C |
| 24 | 492 | 8.3 | 0 | C | 10.0 | 0 | 318 | 6.5 | -5.9 | -0.4 | 4 | C |

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12/03/80 – 12/10/80

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 491 | 8.3 | 0 | C | 9.4 | 13 | 344 | 8.4 | -2.5 | 1.8 | 3 | C |
| 2 | 482 | 7.2 | 130 | L | 9.0 | 6 | 335 | 6.5 | -3.0 | 0.7 | 5 | C |
| 3 | 492 | 7.7 | 0 | C | 9.1 | -57 | 298 | 2.2 | -4.4 | -7.4 | 1 | C |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 523 | 12.3 | 197 | J | 6.6 | -72 | 308 | 1.2 | -3.1 | -5.6 | 1 | J |
| 8 | 517 | 11.7 | 180 | J | 5.8 | -64 | 351 | 2.0 | -1.5 | -3.9 | 3 | J |
| 9 | 522 | 11.2 | 162 | J | 6.1 | -63 | 32 | 1.8 | -0.3 | -4.2 | 4 | J |
| 10 | 514 | 11.4 | 0 | C | 5.4 | -83 | 270 | -0.0 | -1.3 | -2.6 | 5 | J |
| 11 | 513 | 10.8 | 0 | C | 6.7 | -71 | 29 | 1.7 | -1.1 | -5.8 | 3 | J |
| 12 | 523 | 10.8 | 244 | J | 5.1 | -21 | 338 | 3.9 | -2.0 | -1.0 | 2 | J |
| 13 | 524 | 9.2 | 189 | J | 6.0 | -14 | 13 | 5.3 | 0.7 | -1.7 | 2 | J |
| 14 | 522 | 9.1 | 210 | J | 6.2 | -2 | 348 | 5.9 | -1.3 | 0.1 | 2 | J |
| 15 | 516 | 8.6 | 101 | J | 5.9 | 32 | 351 | 4.4 | -0.0 | 2.9 | 2 | J |
| 16 | 520 | 8.5 | 97 | J | 5.9 | 31 | 336 | 3.8 | -1.2 | 2.7 | 3 | J |
| 17 | 555 | 7.5 | 123 | J | 4.8 | -74 | 127 | -0.4 | 0.2 | -2.5 | 4 | J |
| 18 | 526 | 7.1 | 165 | J | 5.1 | 1 | 1 | 4.4 | 0.1 | 0.1 | 3 | J |
| 19 | 523 | 7.3 | 0 | C | 5.1 | 37 | 15 | 3.8 | 1.1 | 2.9 | 2 | J |
| 20 | 579 | 6.4 | 166 | J | 5.0 | 16 | 15 | 4.4 | 1.1 | 1.3 | 2 | J |
| 21 | 508 | 6.4 | 45 | J | 4.7 | -13 | 6 | 4.5 | 0.5 | -1.0 | 1 | J |
| 22 | 516 | 6.0 | 0 | C | 4.7 | 34 | 22 | 3.4 | 1.1 | 2.6 | 1 | C |
| 23 | 514 | 5.8 | 0 | C | 4.8 | -51 | 11 | 2.2 | 0.7 | -2.7 | 3 | J |
| 24 | 520 | 5.7 | 78 | J | 4.5 | -26 | 306 | 1.5 | -1.9 | -1.4 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 450 | 2.9 | 29 | J | 5.2 | -4 | 331 | 4.4 | -2.4 | -0.5 | 1 | J |
| 2 | 448 | 2.8 | 28 | J | 4.7 | -17 | 326 | 3.6 | -2.4 | -1.4 | 1 | J |
| 3 | 455 | 6.8 | 31 | J | 3.8 | -30 | 320 | 2.4 | -2.0 | -1.8 | 1 | J |
| 4 | 447 | 5.4 | 24 | J | 3.9 | -12 | 330 | 3.1 | -1.9 | -0.7 | 1 | J |
| 5 | 446 | 7.0 | 25 | J | 4.3 | -21 | 327 | 3.2 | -2.2 | -1.2 | 1 | J |
| 6 | 424 | 5.2 | 0 | C | 4.3 | -11 | 321 | 3.3 | -2.8 | -0.3 | 0 | C |
| 7 | 422 | 5.3 | 30 | J | 4.5 | -10 | 323 | 3.5 | -2.7 | -0.1 | 1 | J |
| 8 | 417 | 6.2 | 30 | J | 4.8 | -8 | 324 | 3.7 | -2.8 | 0.1 | 1 | J |
| 9 | 408 | 6.5 | 23 | J | 4.2 | -10 | 319 | 3.0 | -2.7 | 0.1 | 1 | J |
| 10 | 406 | 7.0 | 19 | J | 4.0 | -12 | 316 | 2.7 | -2.8 | 0.1 | 1 | J |
| 11 | 407 | 7.4 | 19 | J | 4.1 | -12 | 311 | 2.6 | -3.1 | 0.2 | 0 | J |
| 12 | 400 | 6.5 | 0 | C | 4.1 | -6 | 322 | 3.2 | -2.5 | 0.4 | 0 | C |
| 13 | 393 | 3.7 | 15 | L | 4.6 | -12 | 316 | 3.2 | -3.3 | 0.0 | 0 | J |
| 14 | 391 | 8.0 | 18 | J | 4.7 | -11 | 317 | 3.4 | -3.3 | -0.1 | 0 | J |
| 15 | 381 | 6.1 | 0 | C | 5.3 | -9 | 322 | 4.1 | -3.3 | -0.1 | 1 | C |
| 16 | 381 | 6.0 | 0 | C | 5.6 | -6 | 326 | 4.7 | -3.1 | -0.1 | 0 | C |
| 17 | 381 | 7.6 | 23 | J | 5.2 | -4 | 326 | 4.2 | -2.9 | -0.0 | 1 | J |
| 18 | 373 | 6.6 | 25 | J | 5.4 | 4 | 333 | 4.4 | -2.2 | 0.5 | 2 | J |
| 19 | 348 | 3.4 | 37 | J | 6.0 | 13 | 357 | 5.7 | -0.3 | 1.3 | 1 | J |
| 20 | 343 | 3.2 | 42 | J | 5.8 | -12 | 351 | 5.4 | -0.8 | -1.2 | 1 | J |
| 21 | 346 | 3.5 | 23 | J | 6.1 | -4 | 336 | 5.3 | -2.3 | -0.6 | 2 | J |
| 22 | 352 | 3.6 | 26 | J | 7.0 | 13 | 322 | 5.2 | -4.2 | 1.2 | 1 | J |
| 23 | 355 | 4.1 | 27 | J | 6.9 | 9 | 319 | 5.1 | -4.5 | 0.6 | 1 | J |
| 24 | 345 | 4.0 | 20 | J | 6.8 | 8 | 335 | 5.9 | -2.8 | 0.6 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 380 | 6.7 | 116 | J | 8.2 | 10 | 322 | 5.5 | -4.4 | 0.8 | 4 | J |
| 2 | 395 | 6.7 | 144 | J | 9.0 | 15 | 300 | 3.9 | -6.9 | 1.7 | 4 | J |
| 3 | 375 | 6.4 | 109 | J | 9.1 | 24 | 324 | 6.4 | -4.7 | 3.4 | 3 | J |
| 4 | 405 | 6.3 | 174 | J | 7.6 | 9 | 271 | 0.1 | -6.3 | 1.3 | 4 | J |
| 5 | 409 | 5.8 | 165 | J | 7.6 | -9 | 261 | -1.0 | -6.2 | -0.3 | 4 | J |
| 6 | 451 | 5.4 | 172 | J | 8.7 | -35 | 214 | -5.8 | -4.7 | -4.2 | 1 | J |
| 7 | 405 | 4.7 | 145 | J | 7.7 | -6 | 283 | 0.9 | -4.0 | 0.5 | 6 | J |
| 8 | 441 | 6.1 | 106 | J | 8.6 | -25 | 209 | -6.4 | -4.3 | -2.4 | 3 | J |
| 9 | 418 | 5.6 | 119 | J | 7.8 | -5 | 244 | -2.8 | -5.6 | 1.1 | 4 | J |
| 10 | 405 | 5.3 | 129 | J | 7.9 | -8 | 270 | -0.0 | -6.7 | 1.2 | 4 | J |
| 11 | 400 | 5.1 | 121 | J | 8.1 | -15 | 265 | -0.7 | -7.7 | 0.4 | 2 | J |
| 12 | 398 | 6.1 | 130 | J | 8.4 | -7 | 273 | 0.3 | -6.6 | 1.2 | 5 | J |
| 13 | 391 | 6.2 | 133 | J | 8.6 | 4 | 274 | 0.6 | -7.7 | 2.8 | 2 | J |
| 14 | 368 | 7.1 | 0 | C | 8.9 | 10 | 330 | 3.7 | -5.9 | 2.9 | 4 | C |
| 15 | 386 | 5.6 | 171 | J | 8.1 | -1 | 341 | 6.9 | -2.3 | 0.4 | 3 | C |
| 16 | 389 | 5.1 | 109 | J | 8.6 | 8 | 287 | 2.3 | -7.1 | 2.2 | 3 | C |
| 17 | 358 | 6.4 | 0 | C | 9.6 | 18 | 285 | 2.4 | -8.3 | 3.7 | 2 | C |
| 18 | 357 | 6.2 | 0 | C | 9.7 | 26 | 296 | 3.7 | -7.3 | 4.5 | 2 | C |
| 19 | 371 | 5.6 | 91 | J | 9.7 | 7 | 294 | 3.8 | -8.6 | 1.1 | 1 | C |
| 20 | 373 | 5.1 | 73 | J | 9.8 | 4 | 290 | 3.2 | -9.0 | 0.3 | 2 | C |
| 21 | 376 | 5.9 | 26 | J | 10.2 | 31 | 299 | 4.0 | -7.6 | 4.3 | 3 | C |
| 22 | 376 | 7.1 | 26 | J | 9.8 | -5 | 287 | 2.8 | -8.8 | -1.8 | 2 | C |
| 23 | 360 | 6.7 | 23 | J | 9.6 | 8 | 293 | 3.6 | -8.5 | 0.3 | 2 | C |
| 24 | 372 | 7.0 | 28 | J | 9.6 | 0 | 297 | 4.2 | -8.2 | -0.9 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 421 | 6.3 | 49 | J | 8.5 | 38 | 326 | 5.2 | -4.0 | 4.5 | 3 | J |
| 2 | 439 | 7.0 | 83 | J | 8.5 | 27 | 305 | 3.9 | -5.8 | 3.0 | 4 | J |
| 3 | 446 | 6.7 | 112 | J | 7.1 | 24 | 315 | 3.9 | -4.0 | 2.4 | 4 | J |
| 4 | 469 | 6.6 | 125 | J | 6.6 | -1 | 297 | 2.0 | -3.9 | 0.0 | 5 | J |
| 5 | 453 | 6.8 | 164 | J | 6.7 | 38 | 337 | 3.8 | -1.3 | 3.3 | 4 | J |
| 6 | 481 | 6.0 | 102 | J | 6.7 | -28 | 287 | 1.4 | -4.8 | -1.8 | 4 | J |
| 7 | 445 | 5.9 | 118 | J | 7.3 | -15 | 321 | 4.2 | -3.6 | -0.7 | 5 | J |
| 8 | 456 | 6.3 | 103 | J | 7.3 | 4 | 298 | 2.7 | -4.8 | 1.6 | 5 | J |
| 9 | 450 | 6.3 | 115 | J | 7.7 | 3 | 308 | 3.9 | -4.7 | 1.7 | 4 | J |
| 10 | 416 | 4.9 | 44 | J | 8.1 | 13 | 331 | 6.4 | -2.9 | 2.7 | 3 | J |
| 11 | 420 | 5.2 | 46 | J | 8.1 | -4 | 341 | 6.3 | -2.2 | 0.2 | 4 | J |
| 12 | 424 | 5.7 | 0 | C | 8.4 | 10 | 318 | 5.7 | -4.5 | 2.8 | 2 | C |
| 13 | 433 | 5.9 | 0 | C | 8.3 | -12 | 321 | 5.2 | -4.4 | -0.2 | 4 | C |
| 14 | 454 | 6.4 | 104 | J | 8.1 | 37 | 326 | 4.7 | -2.1 | 4.9 | 4 | J |
| 15 | 449 | 5.8 | 86 | J | 8.1 | -15 | 311 | 4.1 | -5.0 | -0.8 | 5 | J |
| 16 | 439 | 5.9 | 100 | J | 8.3 | -39 | 323 | 4.6 | -4.1 | -4.1 | 4 | J |
| 17 | 436 | 5.9 | 80 | J | 8.6 | -4 | 331 | 5.1 | -2.9 | -0.2 | 6 | J |
| 18 | 440 | 6.1 | 68 | J | 9.0 | -8 | 316 | 5.0 | -6.9 | -1.0 | 2 | J |
| 19 | 451 | 6.2 | 73 | J | 8.5 | 10 | 331 | 3.8 | -6.4 | 1.2 | 4 | J |
| 20 | 461 | 5.7 | 77 | J | 8.1 | 18 | 296 | 3.0 | -6.2 | 1.8 | 4 | J |
| 21 | 460 | 5.5 | 73 | J | 8.1 | -12 | 330 | 3.6 | -6.0 | -2.1 | 3 | J |
| 22 | 479 | 5.3 | 109 | J | 8.3 | -4 | 297 | 3.3 | -6.4 | -1.3 | 3 | C |
| 23 | 469 | 5.3 | 97 | J | 7.9 | -25 | 311 | 4.2 | -4.4 | -3.6 | 4 | J |
| 24 | 469 | 5.2 | 91 | J | 8.1 | -27 | 307 | 4.1 | -5.0 | -4.2 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 500 | 5.5 | 0 | C | 4.3 | -50 | 282 | 0.4 | -1.5 | -2.1 | 3 | C |
| 2 | 513 | 5.4 | 82 | J | 5.0 | -12 | 300 | 2.2 | -3.9 | -1.1 | 2 | J |
| 3 | 522 | 5.3 | 75 | J | 5.5 | -53 | 315 | 1.7 | -1.7 | -3.2 | 4 | J |
| 4 | 538 | 4.3 | 69 | J | 4.7 | -65 | 261 | -0.3 | -2.1 | -3.9 | 1 | J |
| 5 | 512 | 3.9 | 0 | C | 5.1 | -8 | 332 | 4.3 | -2.4 | -0.4 | 1 | C |
| 6 | 520 | 3.5 | 49 | J | 4.7 | 12 | 333 | 3.7 | -1.7 | 1.2 | 2 | J |
| 7 | 506 | 4.0 | 42 | J | 4.8 | -1 | 344 | 3.7 | -1.0 | 0.2 | 3 | J |
| 8 | 508 | 4.0 | 47 | J | 4.9 | -13 | 350 | 4.4 | -1.0 | -0.8 | 2 | J |
| 9 | 507 | 4.1 | 42 | J | 4.8 | -4 | 355 | 4.7 | -0.5 | -0.2 | 1 | J |
| 10 | 505 | 3.8 | 42 | J | 4.6 | -6 | 349 | 4.4 | -1.0 | -0.2 | 1 | J |
| 11 | 534 | 2.8 | 0 | C | 5.4 | 4 | 320 | 4.0 | -3.1 | 1.5 | 0 | C |
| 12 | 503 | 3.7 | 37 | J | 5.6 | -12 | 329 | 4.4 | -2.9 | -0.2 | 2 | J |
| 13 | 504 | 3.3 | 39 | J | 5.4 | 11 | 329 | 4.2 | -2.1 | 1.7 | 2 | J |
| 14 | 499 | 3.5 | 38 | J | 5.7 | -4 | 334 | 4.7 | -2.3 | 0.3 | 2 | J |
| 15 | 496 | 3.3 | 28 | J | 5.9 | 16 | 10 | 5.6 | 1.3 | 1.4 | 1 | J |
| 16 | 489 | 3.1 | 29 | J | 6.1 | 14 | 1 | 5.7 | 0.3 | 1.4 | 2 | J |
| 17 | 482 | 3.1 | 36 | J | 5.8 | 8 | 355 | 5.6 | -0.4 | 0.8 | 1 | J |
| 18 | 472 | 2.3 | 40 | L | 5.5 | 6 | 343 | 4.9 | -1.5 | 0.6 | 2 | J |
| 19 | 478 | 3.2 | 0 | C | 6.0 | -3 | 357 | 5.9 | -0.3 | -0.3 | 1 | C |
| 20 | 486 | 3.2 | 0 | C | 5.9 | -2 | 353 | 5.6 | -0.7 | -0.3 | 2 | C |
| 21 | 466 | 3.2 | 0 | C | 6.0 | 10 | 352 | 5.8 | -0.8 | 1.0 | 0 | C |
| 22 | 459 | 3.1 | 35 | J | 4.8 | 8 | 354 | 4.4 | -0.5 | 0.6 | 1 | J |
| 23 | 458 | 3.6 | 63 | J | 5.3 | -12 | 340 | 4.6 | -1.6 | -1.2 | 2 | J |
| 24 | 453 | 3.2 | 26 | J | 5.4 | -9 | 341 | 4.9 | -1.6 | -1.0 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 346 | 4.2 | 18 | J | 6.8 | 1 | 328 | 5.6 | -3.5 | -0.2 | 1 | J |
| 2 | 358 | 4.4 | 33 | J | 7.1 | -1 | 312 | 4.7 | -5.2 | -0.4 | 2 | J |
| 3 | 361 | 4.7 | 26 | J | 7.4 | -6 | 307 | 4.3 | -5.7 | -0.8 | 1 | J |
| 4 | 372 | 5.0 | 22 | J | 7.6 | 3 | 298 | 3.4 | -6.4 | 0.7 | 2 | J |
| 5 | | | | | | | | | | | | |
| 6 | 393 | 5.1 | 39 | J | 8.4 | 7 | 284 | 2.0 | -7.8 | 2.4 | 0 | J |
| 7 | 393 | 5.8 | 44 | J | 8.6 | -2 | 289 | 2.7 | -7.8 | 1.5 | 2 | J |
| 8 | 394 | 6.2 | 47 | J | 8.9 | 0 | 295 | 3.6 | -7.4 | 2.1 | 3 | J |
| 9 | 410 | 6.5 | 36 | J | 9.5 | -11 | 286 | 2.5 | -8.8 | 0.9 | 2 | J |
| 10 | 416 | 7.1 | 63 | J | 9.6 | 1 | 287 | 2.6 | -8.0 | 2.9 | 3 | J |
| 11 | 425 | 7.5 | 88 | J | 9.2 | 7 | 281 | 1.6 | -7.6 | 3.7 | 3 | J |
| 12 | 385 | 7.2 | 75 | J | 9.8 | 12 | 314 | 6.4 | -5.8 | 3.9 | 2 | J |
| 13 | 391 | 7.4 | 57 | J | 9.7 | 2 | 313 | 5.5 | -5.6 | 2.0 | 5 | J |
| 14 | 403 | 8.4 | 98 | J | 9.8 | 22 | 301 | 4.5 | -6.4 | 5.3 | 2 | J |
| 15 | 392 | 8.0 | 74 | J | 9.1 | 31 | 356 | 6.2 | 0.3 | 3.7 | 6 | J |
| 16 | 411 | 9.1 | 150 | J | 9.3 | 2 | 287 | 2.7 | -8.5 | 1.7 | 2 | J |
| 17 | 412 | 8.7 | 172 | J | 8.6 | 43 | 24 | 4.0 | 2.2 | 3.9 | 6 | J |
| 18 | 405 | 8.5 | 134 | J | 9.2 | 37 | 3 | 7.1 | 0.7 | 5.3 | 3 | J |
| 19 | 403 | 8.8 | 0 | C | 8.9 | 0 | 346 | 8.3 | -2.1 | 0.0 | 2 | C |
| 20 | 408 | 8.3 | 0 | C | 8.0 | 31 | 323 | 5.1 | -4.0 | 3.7 | 2 | C |
| 21 | 399 | 8.3 | 0 | C | 8.1 | 22 | 341 | 6.9 | -2.5 | 2.7 | 1 | C |
| 22 | 399 | 8.3 | 0 | C | 8.2 | 16 | 333 | 6.8 | -3.6 | 1.9 | 1 | C |
| 23 | 358 | 8.0 | 0 | C | 8.4 | 24 | 352 | 7.5 | -1.4 | 3.2 | 1 | C |
| 24 | 374 | 5.8 | 69 | J | 8.5 | 15 | 353 | 7.9 | -1.2 | 2.0 | 2 | J |

DEC. 8, 1980

343

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 361 | 7.8 | 0 | C | 8.8 | -7 | 312 | 5.0 | -5.4 | -1.5 | 4 | C |
| 2 | 378 | 8.4 | 90 | J | 7.6 | 3 | 351 | 6.7 | -1.0 | 0.3 | 3 | C |
| 3 | 378 | 9.0 | 62 | J | 7.2 | -12 | 10 | 6.1 | 1.1 | -1.2 | 3 | C |
| 4 | 355 | 10.5 | 69 | J | 7.9 | 7 | 354 | 7.6 | -0.8 | 1.0 | 2 | J |
| 5 | 372 | 10.9 | 56 | J | 8.0 | 18 | 38 | 5.3 | 4.3 | 1.8 | 3 | J |
| 6 | 416 | 10.9 | 45 | J | 8.8 | 60 | 122 | -2.2 | 4.7 | 6.6 | 2 | J |
| 7 | 400 | 13.0 | 0 | C | 8.0 | 72 | 301 | 1.0 | -0.4 | 6.0 | 5 | J |
| 8 | 389 | 8.9 | 52 | J | 8.7 | -33 | 298 | 3.2 | -7.0 | -2.8 | 2 | C |
| 9 | 371 | 8.6 | 34 | J | 9.5 | -6 | 305 | 5.3 | -7.5 | 1.2 | 2 | C |
| 10 | 386 | 8.2 | 66 | J | 7.3 | -15 | 312 | 4.5 | -5.3 | -0.2 | 2 | J |
| 11 | 398 | 9.0 | 79 | J | 6.9 | 38 | 341 | 4.6 | -0.3 | 4.1 | 3 | J |
| 12 | 395 | 10.6 | 0 | C | 7.1 | -10 | 340 | 6.4 | -2.6 | -0.5 | 1 | C |
| 13 | 393 | 9.3 | 38 | J | 7.9 | 28 | 328 | 5.3 | -2.3 | 4.1 | 4 | J |
| 14 | 402 | 10.1 | 56 | J | 8.0 | 34 | 294 | 2.6 | -4.7 | 5.6 | 2 | J |
| 15 | 407 | 9.9 | 80 | J | 7.2 | 8 | 320 | 4.3 | -3.4 | 1.5 | 4 | J |
| 16 | 427 | 8.2 | 72 | J | 8.5 | 31 | 325 | 5.8 | -3.4 | 4.8 | 2 | J |
| 17 | 424 | 8.3 | 58 | J | 8.0 | 19 | 333 | 6.4 | -3.0 | 2.8 | 2 | J |
| 18 | 436 | 8.4 | 94 | J | 8.5 | 9 | 305 | 4.3 | -6.1 | 1.4 | 4 | J |
| 19 | 433 | 8.9 | 0 | C | 8.3 | -31 | 302 | 3.1 | -5.0 | -3.6 | 4 | C |
| 20 | 424 | 5.8 | 53 | J | 8.1 | 29 | 317 | 5.0 | -4.9 | 3.6 | 2 | J |
| 21 | 446 | 5.9 | 54 | J | 9.0 | 57 | 316 | 3.3 | -3.8 | 6.8 | 3 | J |
| 22 | 425 | 6.5 | 63 | J | 9.2 | 12 | 309 | 4.9 | -6.2 | 1.0 | 5 | J |
| 23 | 427 | 6.4 | 59 | J | 8.9 | -19 | 319 | 5.1 | -4.1 | -2.8 | 5 | J |
| 24 | 424 | 5.8 | 50 | J | 8.9 | 48 | 331 | 5.0 | -3.6 | 6.0 | 2 | J |

DEC. 10, 1980

345

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 5.5 | 83 | J | 8.3 | -13 | 313 | 5.0 | -5.2 | -2.3 | 3 | J |
| 2 | 482 | 5.0 | 114 | J | 8.3 | -52 | 314 | 3.5 | -3.1 | -6.7 | 2 | J |
| 3 | 475 | 5.0 | 126 | J | 8.0 | -36 | 313 | 4.2 | -4.3 | -4.6 | 3 | J |
| 4 | 482 | 5.0 | 135 | J | 8.1 | -19 | 304 | 3.7 | -5.5 | -2.2 | 4 | J |
| 5 | 477 | 4.8 | 117 | J | 8.3 | -3 | 303 | 4.0 | -6.2 | 0.1 | 4 | J |
| 6 | 499 | 5.2 | 141 | J | 8.6 | 1 | 292 | 2.6 | -6.3 | 1.0 | 5 | J |
| 7 | 488 | 5.0 | 144 | J | 8.4 | 20 | 299 | 3.4 | -5.5 | 3.7 | 4 | J |
| 8 | 462 | 4.6 | 91 | J | 8.2 | 1 | 330 | 6.1 | -3.4 | 1.0 | 4 | J |
| 9 | 486 | 4.0 | 124 | J | 7.4 | -7 | 327 | 4.6 | -3.0 | 0.2 | 5 | J |
| 10 | 507 | 4.3 | 145 | J | 6.8 | 24 | 328 | 3.0 | -1.4 | 2.1 | 5 | J |
| 11 | 515 | 4.4 | 150 | J | 7.1 | 40 | 304 | 2.1 | -2.1 | 4.0 | 5 | J |
| 12 | 494 | 4.4 | 124 | J | 7.1 | 20 | 319 | 4.2 | -2.9 | 3.0 | 4 | J |
| 13 | 490 | 4.1 | 107 | J | 7.2 | -4 | 327 | 4.6 | -3.0 | 0.4 | 5 | J |
| 14 | 515 | 4.0 | 124 | J | 7.4 | 27 | 293 | 2.3 | -4.6 | 4.1 | 3 | J |
| 15 | 515 | 4.3 | 133 | J | 7.3 | 39 | 290 | 1.6 | -3.7 | 4.7 | 4 | J |
| 16 | 485 | 4.5 | 125 | J | 7.2 | 30 | 344 | 4.5 | -0.9 | 2.8 | 5 | J |
| 17 | 496 | 4.1 | 142 | J | 7.1 | 22 | 307 | 3.7 | -4.7 | 2.9 | 2 | J |
| 18 | 508 | 4.2 | 0 | C | 7.0 | -7 | 319 | 4.5 | -3.9 | -0.6 | 3 | C |
| 19 | 480 | 3.9 | 100 | J | 7.5 | 2 | 328 | 5.7 | -3.6 | 0.2 | 3 | J |
| 20 | 472 | 4.0 | 106 | J | 7.5 | 18 | 313 | 4.6 | -5.1 | 1.9 | 2 | J |
| 21 | 511 | 3.6 | 0 | C | 7.6 | 22 | 281 | 1.2 | -6.4 | 1.9 | 3 | C |
| 22 | 476 | 3.9 | 116 | J | 6.6 | 23 | 319 | 4.0 | -3.7 | 1.8 | 3 | J |
| 23 | 497 | 3.7 | 97 | J | 7.2 | 21 | 292 | 2.4 | -6.3 | 1.6 | 2 | J |
| 24 | 514 | 4.3 | 106 | J | 6.9 | 55 | 306 | 1.7 | -2.8 | 3.7 | 5 | J |

# 12/11/80 – 12/18/80

## DEC. 11, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 500 | 4.0 | 0 | C | 6.9 | 50 | 34 | 3.3 | 1.6 | 5.0 | 3 | J |
| 2 | 497 | 4.8 | 110 | J | 6.8 | 54 | 348 | 3.0 | -1.0 | 4.1 | 4 | J |
| 3 | 488 | 4.4 | 98 | J | 7.3 | 17 | 294 | 2.7 | -6.2 | 1.8 | 2 | J |
| 4 | 495 | 4.3 | 95 | J | 7.3 | 5 | 282 | 1.4 | -6.7 | 0.7 | 2 | J |
| 5 | 491 | 3.7 | 70 | J | 7.3 | 0 | 283 | 1.6 | -6.9 | 0.5 | 2 | J |
| 6 | 472 | 3.5 | 0 | C | 7.3 | -1 | 296 | 3.0 | -6.2 | 0.7 | 2 | C |
| 7 | 488 | 3.2 | 83 | J | 7.0 | 3 | 284 | 1.6 | -6.4 | 1.5 | 1 | C |
| 8 | 472 | 4.5 | 135 | J | 7.0 | 3 | 268 | -0.2 | -6.0 | 1.8 | 3 | J |
| 9 | 488 | 3.5 | 0 | C | 6.8 | 7 | 281 | 1.2 | -5.8 | 2.4 | 2 | C |
| 10 | 483 | 3.8 | 66 | J | 6.9 | 13 | 279 | 1.0 | -5.5 | 3.1 | 2 | C |
| 11 | 569 | 7.2 | 196 | J | | | | | | | | |
| 12 | 557 | 8.6 | 0 | C | 14.3 | 11 | 313 | 9.3 | -8.8 | 5.2 | 3 | C |
| 13 | 557 | 8.6 | 0 | C | 14.5 | 5 | 314 | 9.1 | -8.8 | 3.4 | 4 | C |
| 14 | 577 | 11.4 | 0 | C | 12.7 | 9 | 343 | 10.5 | -2.8 | 2.4 | 5 | C |
| 15 | 576 | 11.5 | 0 | C | 12.2 | -18 | 292 | 2.9 | -7.6 | -1.3 | 8 | C |
| 16 | 595 | 10.7 | 0 | C | 11.5 | -10 | 242 | -4.4 | -8.6 | -0.6 | 5 | C |
| 17 | 592 | 10.5 | 0 | C | 9.8 | 25 | 301 | 3.0 | -4.9 | 3.2 | 7 | C |
| 18 | 599 | 11.1 | 0 | C | 11.4 | 38 | 297 | 3.6 | -7.0 | 6.3 | 5 | C |
| 19 | 615 | 11.1 | 0 | C | 15.9 | 44 | 280 | 1.9 | -11.3 | 10.5 | 2 | C |
| 20 | 640 | 9.8 | 0 | C | 11.3 | 38 | 271 | 0.1 | -5.9 | 3.9 | 9 | C |
| 21 | 619 | 13.0 | 0 | C | 15.1 | 2 | 265 | -0.9 | -9.5 | -0.7 | 12 | C |
| 22 | 619 | 13.0 | 0 | C | 16.6 | 37 | 260 | -0.5 | -2.8 | 1.6 | 16 | C |
| 23 | 623 | 10.9 | 0 | C | 12.4 | -30 | 88 | 0.2 | 8.1 | -3.3 | 8 | C |
| 24 | 614 | 13.6 | 0 | C | 18.0 | -18 | 248 | -6.3 | -14.8 | -7.9 | 1 | C |

## DEC. 12, 1980

347

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 575 | 8.1 | 0 | C | 16.3 | -19 | 245 | -6.6 | -13.1 | -6.9 | 1 | C |
| 2 | 634 | 14.2 | 0 | C | 15.3 | -18 | 242 | -6.9 | -12.2 | -6.0 | 1 | C |
| 3 | 586 | 10.4 | 0 | C | 15.4 | -16 | 249 | -5.4 | -13.5 | -4.9 | 1 | C |
| 4 | 540 | 7.4 | 0 | C | 15.1 | -9 | 247 | -5.7 | -13.7 | -2.3 | 1 | C |
| 5 | 527 | 7.1 | 0 | C | 14.6 | -8 | 241 | -7.1 | -12.7 | -1.2 | 1 | C |
| 6 | 541 | 8.0 | 0 | C | 14.2 | -4 | 235 | -8.2 | -11.6 | 0.4 | 1 | C |
| 7 | 535 | 8.2 | 0 | C | 14.0 | -4 | 235 | -8.1 | -11.4 | 1.2 | 0 | C |
| 8 | 540 | 10.4 | 0 | C | 13.4 | 0 | 239 | -6.9 | -11.1 | 2.5 | 1 | C |
| 9 | 531 | 9.6 | 0 | C | 13.4 | -1 | 229 | -8.7 | -9.8 | 2.4 | 1 | C |
| 10 | 515 | 8.5 | 0 | C | 13.2 | 11 | 227 | -8.7 | -8.5 | 5.0 | 1 | C |
| 11 | 500 | 7.6 | 0 | C | 13.4 | 13 | 219 | -10.1 | -7.0 | 5.2 | 1 | C |
| 12 | 510 | 8.3 | 0 | C | 13.4 | 18 | 220 | -9.8 | -6.8 | 6.1 | 0 | C |
| 13 | 505 | 8.2 | 0 | C | 13.2 | 27 | 206 | -10.5 | -3.6 | 7.1 | 1 | C |
| 14 | 489 | 7.6 | 0 | C | 13.4 | 30 | 198 | -10.9 | -2.1 | 7.2 | 2 | C |
| 15 | 485 | 7.5 | 0 | C | 13.0 | 31 | 186 | -11.0 | -0.1 | 6.8 | 1 | C |
| 16 | | | | | 12.8 | 33 | 189 | -10.5 | -0.8 | 7.1 | 1 | C |
| 17 | 485 | 6.8 | 0 | C | 12.8 | 38 | 192 | -9.8 | -1.5 | 8.1 | 1 | C |
| 18 | 485 | 6.8 | 0 | C | 13.0 | 44 | 190 | -9.2 | -1.5 | 9.0 | 1 | C |
| 19 | 459 | 6.5 | 0 | C | 13.5 | 50 | 163 | -8.0 | 2.1 | 10.2 | 2 | C |
| 20 | 484 | 9.4 | 0 | C | 12.9 | 48 | 178 | -7.9 | -0.5 | 8.7 | 5 | C |
| 21 | 477 | 11.7 | 0 | C | 13.7 | 46 | 188 | -9.2 | -2.4 | 9.4 | 3 | C |
| 22 | 457 | 10.3 | 0 | C | 13.8 | 53 | 155 | -7.5 | 2.0 | 11.2 | 2 | C |
| 23 | 457 | 10.3 | 0 | C | 13.3 | 43 | 170 | -9.4 | 0.2 | 9.1 | 2 | C |
| 24 | 472 | 12.1 | 0 | C | 13.4 | 44 | 166 | -9.2 | 0.9 | 9.4 | 2 | C |

## DEC. 13, 1980

348

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 473 | 10.2 | 0 | C | 13.3 | 43 | 138 | -6.9 | 5.0 | 9.6 | 3 | C |
| 2 | 387 | 6.6 | 0 | C | 13.7 | 42 | 131 | -6.7 | 6.5 | 10.0 | 1 | C |
| 3 | 363 | 6.1 | 0 | C | 13.1 | 40 | 130 | -6.4 | 7.1 | 8.9 | 1 | C |
| 4 | 353 | 6.0 | 0 | C | 11.9 | 41 | 121 | -4.7 | 7.6 | 7.7 | 1 | C |
| 5 | 361 | 6.2 | 0 | C | 11.3 | 37 | 126 | -5.3 | 7.7 | 6.3 | 0 | C |
| 6 | 362 | 6.4 | 0 | C | 10.7 | 48 | 105 | -1.8 | 7.4 | 6.6 | 3 | C |
| 7 | 333 | 5.9 | 0 | C | 11.0 | 57 | 82 | 0.8 | 7.3 | 8.1 | 0 | C |
| 8 | 335 | 5.7 | 0 | C | 10.4 | 27 | 77 | 2.0 | 9.8 | 2.7 | 1 | C |
| 9 | 332 | 5.3 | 0 | C | 9.9 | 29 | 91 | -0.1 | 9.5 | 2.4 | 1 | C |
| 10 | 332 | 5.4 | 0 | C | 9.7 | 15 | 85 | 0.8 | 9.1 | -0.0 | 3 | C |
| 11 | 355 | 6.2 | 0 | C | 9.5 | 4 | 68 | 3.5 | 8.6 | -1.8 | 1 | C |
| 12 | 357 | 6.3 | 0 | C | 9.1 | 7 | 82 | 1.2 | 8.9 | -1.3 | 1 | C |
| 13 | 356 | 5.5 | 0 | C | 9.6 | 16 | 103 | -2.0 | 9.3 | 0.4 | 0 | C |
| 14 | 356 | 5.5 | 0 | C | 9.6 | 19 | 112 | -3.3 | 8.8 | 1.3 | 1 | C |
| 15 | 364 | 5.4 | 0 | C | 9.3 | 28 | 116 | -3.5 | 7.9 | 3.1 | 1 | C |
| 16 | 367 | 4.9 | 0 | C | 8.4 | 37 | 131 | -4.3 | 5.5 | 4.3 | 2 | C |
| 17 | 404 | 4.4 | 0 | C | 8.1 | 41 | 134 | -4.1 | 4.5 | 4.7 | 2 | C |
| 18 | 409 | 4.9 | 0 | C | 8.0 | 39 | 124 | -3.3 | 4.8 | 4.6 | 2 | C |
| 19 | 406 | 5.6 | 0 | C | 8.3 | 44 | 143 | -4.1 | 2.9 | 5.1 | 4 | C |
| 20 | 403 | 6.0 | 0 | C | 9.4 | 30 | 133 | -5.3 | 5.3 | 5.0 | 3 | C |
| 21 | 380 | 5.8 | 0 | C | 9.2 | -3 | 111 | -3.3 | 8.3 | 0.6 | 2 | C |
| 22 | 409 | 4.9 | 0 | C | 8.6 | 4 | 119 | -4.0 | 7.2 | 1.6 | 2 | C |
| 23 | 394 | 6.1 | 0 | C | 8.7 | 19 | 162 | -6.9 | 1.8 | 2.8 | 4 | C |
| 24 | 385 | 7.1 | 0 | C | 8.5 | 14 | 160 | -7.1 | 2.3 | 2.4 | 3 | C |

## DEC. 14, 1980

349

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 7.4 | 0 | C | 7.8 | 33 | 165 | -6.1 | 1.0 | 4.3 | 2 | C |
| 2 | 389 | 7.8 | 0 | C | 7.4 | 34 | 198 | -5.5 | -2.2 | 3.7 | 2 | C |
| 3 | 391 | 7.7 | 0 | C | 7.1 | 33 | 191 | -5.6 | -1.4 | 3.7 | 2 | C |
| 4 | 401 | 8.0 | 0 | C | 6.0 | 25 | 194 | -4.9 | -1.2 | 2.3 | 2 | C |
| 5 | 405 | 8.3 | 0 | C | 5.3 | 0 | 127 | -2.8 | 3.6 | -0.2 | 2 | C |
| 6 | 393 | 8.4 | 0 | C | 5.1 | -29 | 176 | -4.2 | 0.0 | -2.3 | 2 | C |
| 7 | 390 | 8.6 | 0 | C | 5.0 | 9 | 179 | -4.6 | 0.2 | 0.7 | 2 | C |
| 8 | 396 | 9.1 | 0 | C | 5.2 | 13 | 207 | -4.0 | -1.8 | 1.5 | 2 | C |
| 9 | 399 | 9.3 | 0 | C | 5.5 | 2 | 200 | -5.0 | -1.7 | 0.6 | 1 | C |
| 10 | 395 | 9.2 | 0 | C | 5.7 | -3 | 122 | -2.7 | 4.2 | -1.4 | 2 | C |
| 11 | 393 | 8.5 | 0 | C | 6.2 | -30 | 104 | -1.2 | 3.9 | -4.1 | 2 | C |
| 12 | 390 | 8.1 | 0 | C | 6.4 | 0 | 136 | -4.1 | 3.9 | -1.0 | 2 | C |
| 13 | 385 | 8.4 | 0 | C | 6.6 | 7 | 152 | -5.6 | 3.1 | 0.1 | 1 | C |
| 14 | 381 | 9.0 | 0 | C | 6.8 | -4 | 142 | -5.1 | 3.7 | -1.2 | 2 | C |
| 15 | 390 | 9.9 | 0 | C | 6.9 | -16 | 158 | -6.0 | 2.1 | -2.2 | 1 | C |
| 16 | 402 | 10.2 | 0 | C | 6.9 | -60 | 205 | -2.9 | -1.9 | -5.4 | 2 | C |
| 17 | 404 | 10.6 | 0 | C | 7.2 | -47 | 142 | -3.5 | 2.4 | -4.8 | 3 | C |
| 18 | 403 | 11.9 | 0 | C | 7.3 | -37 | 103 | -1.2 | 5.0 | -3.9 | 3 | C |
| 19 | 400 | 13.1 | 0 | C | 7.3 | -14 | 76 | 1.6 | 6.6 | -1.4 | 1 | C |
| 20 | 397 | 13.4 | 0 | C | 8.0 | 0 | 80 | 1.3 | 7.5 | 0.7 | 2 | C |
| 21 | 392 | 13.5 | 0 | C | 8.1 | 7 | 79 | 1.4 | 7.2 | 1.9 | 2 | C |
| 22 | 388 | 13.3 | 0 | C | 8.4 | 9 | 96 | -0.8 | 7.6 | 2.5 | 2 | C |
| 23 | 390 | 13.3 | 0 | C | 7.8 | -6 | 120 | -3.6 | 6.3 | 0.3 | 2 | C |
| 24 | 393 | 12.8 | 0 | C | 8.1 | -12 | 115 | -3.2 | 7.0 | -0.4 | 2 | C |

## DEC. 15, 1980

350

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 12.0 | 0 | C | 8.6 | -21 | 109 | -2.6 | 7.9 | -1.8 | 1 | C |
| 2 | 390 | 12.6 | 0 | C | 8.7 | -12 | 114 | -3.1 | 7.2 | -0.8 | 3 | C |
| 3 | 383 | 12.3 | 0 | C | 10.1 | -4 | 106 | -2.7 | 9.4 | 0.0 | 2 | C |
| 4 | 381 | 11.6 | 0 | C | 10.2 | -26 | 115 | -3.8 | 8.2 | -4.1 | 2 | C |
| 5 | 374 | 11.8 | 0 | C | 9.7 | -17 | 103 | -2.1 | 8.7 | -3.1 | 2 | C |
| 6 | 372 | 11.5 | 0 | C | 9.7 | 19 | 106 | -2.5 | 8.9 | 2.1 | 1 | C |
| 7 | 367 | 11.5 | 0 | C | 9.4 | 18 | 96 | -0.9 | 9.1 | 1.4 | 0 | C |
| 8 | 369 | 12.3 | 0 | C | 9.2 | -2 | 110 | -2.8 | 7.3 | -1.9 | 4 | C |
| 9 | 373 | 12.6 | 0 | C | 8.2 | 12 | 98 | -0.9 | 6.7 | -0.2 | 3 | C |
| 10 | 376 | 12.2 | 0 | C | 8.0 | -3 | 124 | -4.3 | 6.0 | -2.0 | 2 | C |
| 11 | 377 | 11.7 | 0 | C | 9.2 | 8 | 117 | -3.7 | 7.2 | -0.8 | 4 | C |
| 12 | 381 | 11.3 | 0 | C | 8.8 | -57 | 168 | -3.5 | -0.6 | -5.6 | 4 | C |
| 13 | 381 | 9.1 | 0 | C | | | | | | | | |
| 14 | 381 | 9.1 | 0 | C | 7.0 | 7 | 109 | -2.0 | 5.9 | -0.4 | 2 | C |
| 15 | 391 | 9.5 | 0 | C | 8.8 | 24 | 139 | -5.8 | 5.5 | 2.6 | 2 | C |
| 16 | 392 | 7.1 | 0 | C | 9.5 | 15 | 104 | -2.1 | 8.7 | 1.5 | 2 | C |
| 17 | 423 | 6.1 | 0 | C | 10.9 | 11 | 95 | -0.9 | 9.9 | 1.5 | 3 | C |
| 18 | 432 | 6.2 | 0 | C | 10.4 | -13 | 109 | -2.8 | 8.2 | -1.9 | 5 | C |
| 19 | 438 | 5.6 | 0 | C | 10.3 | -6 | 131 | -6.5 | 7.4 | -0.6 | 2 | C |
| 20 | 448 | 5.6 | 0 | C | 11.0 | -7 | 122 | -5.7 | 9.3 | -0.3 | 1 | C |
| 21 | 462 | 6.4 | 0 | C | 10.6 | 54 | 93 | -0.3 | 4.1 | 7.6 | 6 | C |
| 22 | 458 | 7.5 | 0 | C | 10.1 | 28 | 90 | -0.0 | 7.1 | 5.4 | 4 | C |
| 23 | 437 | 7.6 | 0 | C | 9.0 | -5 | 95 | -0.7 | 8.3 | 0.7 | 2 | C |
| 24 | 452 | 9.0 | 0 | C | 8.6 | 54 | 11 | 2.9 | -0.2 | 4.1 | 6 | C |

## DEC. 16, 1980

351

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 470 | 9.2 | 0 | C | 9.0 | 0 | 77 | 1.4 | 6.0 | 1.0 | 6 | C |
| 2 | 473 | 7.4 | 116 | L | 9.0 | -26 | 69 | 2.4 | 6.5 | -2.4 | 5 | J |
| 3 | 439 | 7.4 | 120 | L | 8.0 | 9 | 106 | -1.8 | 6.2 | 1.6 | 4 | J |
| 4 | 453 | 9.0 | 0 | C | 7.9 | 46 | 46 | 2.1 | 2.1 | 3.2 | 7 | J |
| 5 | 450 | 9.6 | 0 | C | 8.7 | 34 | 72 | 1.4 | 4.4 | 2.9 | 7 | J |
| 6 | 420 | 8.6 | 150 | L | 8.7 | -14 | 149 | -6.7 | 3.8 | -2.3 | 3 | J |
| 7 | 413 | 9.0 | 50 | J | 8.7 | 13 | 181 | -8.1 | 0.1 | 1.9 | 2 | J |
| 8 | 406 | 9.3 | 79 | J | 9.1 | -2 | 181 | -8.6 | -0.2 | -0.3 | 3 | J |
| 9 | 424 | 9.9 | 0 | C | 8.9 | -25 | 181 | -6.1 | -0.8 | -2.8 | 5 | C |
| 10 | 465 | 6.1 | 226 | J | 7.5 | -55 | 187 | -2.3 | -1.1 | -3.2 | 6 | J |
| 11 | 474 | 5.2 | 269 | J | 9.3 | -61 | 155 | -3.7 | -0.2 | -7.5 | 4 | J |
| 12 | 483 | 4.3 | 244 | J | 9.6 | -36 | 75 | 1.9 | 5.5 | -6.7 | 5 | J |
| 13 | 515 | 5.3 | 219 | J | 7.9 | -31 | 54 | 3.7 | 4.1 | -4.8 | 3 | J |
| 14 | 512 | 4.4 | 158 | J | 7.5 | -12 | 47 | 4.5 | 4.5 | -2.2 | 3 | J |
| 15 | 522 | 4.2 | 279 | J | 6.9 | -8 | 87 | 0.3 | 5.0 | -1.4 | 5 | J |
| 16 | 550 | 4.8 | 327 | J | 7.5 | -46 | 126 | -2.3 | 2.8 | -4.4 | 5 | J |
| 17 | 542 | 5.5 | 328 | J | 7.4 | -4 | 110 | -1.8 | 5.0 | -0.6 | 5 | J |
| 18 | 536 | 4.6 | 232 | J | 7.3 | -26 | 178 | -4.6 | 0.2 | -2.2 | 5 | J |
| 19 | 552 | 4.1 | 164 | J | 6.9 | -6 | 182 | -6.0 | -0.2 | -0.6 | 3 | J |
| 20 | 568 | 3.8 | 104 | J | 7.2 | -8 | 184 | -6.9 | -0.4 | -1.0 | 2 | C |
| 21 | 549 | 3.1 | 183 | L | 6.0 | 0 | 185 | -5.4 | -0.5 | -0.1 | 3 | J |
| 22 | 555 | 2.9 | 147 | J | 6.1 | 2 | 183 | -5.8 | -0.3 | 0.1 | 2 | J |
| 23 | 557 | 3.2 | 137 | J | 6.3 | 3 | 190 | -6.2 | -1.1 | 0.1 | 1 | J |
| 24 | 553 | 3.0 | 95 | J | 6.5 | 3 | 186 | -6.5 | -0.7 | 0.2 | 1 | J |

## DEC. 17, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 527 | 3.1 | 150 | L | 6.2 | 11 | 178 | -5.9 | 0.0 | 1.2 | 2 | J |
| 2 | 527 | 2.6 | 136 | L | 5.6 | 30 | 170 | -4.5 | 0.4 | 2.7 | 2 | J |
| 3 | 520 | 2.5 | 145 | L | 5.8 | 54 | 173 | -3.3 | -0.0 | 4.6 | 1 | J |
| 4 | 522 | 3.1 | 86 | J | 5.6 | 19 | 164 | -4.9 | 1.3 | 1.8 | 1 | J |
| 5 | | | | | | | | | | | | |
| 6 | 522 | 2.3 | 116 | L | 5.5 | 39 | 153 | -3.6 | 2.1 | 3.1 | 2 | J |
| 7 | 536 | 2.5 | 69 | J | 5.5 | 27 | 127 | -2.8 | 4.1 | 1.8 | 1 | J |
| 8 | 527 | 2.7 | 77 | J | 5.3 | 12 | 170 | -4.7 | 1.0 | 0.8 | 2 | J |
| 9 | 535 | 2.2 | 85 | J | 5.1 | 15 | 175 | -4.5 | 0.7 | 1.1 | 2 | J |
| 10 | 515 | 2.1 | 101 | J | 5.1 | 15 | 183 | -4.9 | 0.1 | 1.3 | 1 | J |
| 11 | 509 | 2.6 | 61 | J | 5.4 | 14 | 183 | -5.2 | 0.1 | 1.3 | 1 | J |
| 12 | 516 | 2.8 | 104 | J | 5.8 | 2 | 179 | -5.8 | 0.1 | 0.2 | 0 | J |
| 13 | 512 | 2.1 | 56 | J | 6.1 | 8 | 176 | -6.0 | 0.6 | 0.7 | 1 | J |
| 14 | 479 | 2.2 | 97 | L | 5.9 | 5 | 174 | -5.7 | 0.7 | 0.4 | 1 | J |
| 15 | 488 | 2.2 | 40 | J | 5.6 | -3 | 172 | -5.4 | 0.7 | -0.4 | 1 | J |
| 16 | 484 | 2.5 | 124 | L | 6.2 | -18 | 181 | -5.9 | -0.3 | -1.9 | 1 | J |
| 17 | 483 | 2.2 | 118 | L | 6.7 | -15 | 177 | -6.4 | 0.3 | -1.7 | 1 | J |
| 18 | 483 | 2.8 | 47 | J | 6.5 | -20 | 165 | -5.8 | 1.6 | -2.2 | 1 | J |
| 19 | 484 | 3.7 | 56 | J | 6.8 | 3 | 146 | -5.1 | 3.4 | 0.6 | 3 | J |
| 20 | 507 | 3.5 | 48 | J | 7.2 | 33 | 132 | -3.7 | 3.7 | 4.1 | 3 | J |
| 21 | 519 | 3.9 | 50 | J | 7.7 | 36 | 125 | -3.4 | 4.1 | 5.0 | 2 | J |
| 22 | 505 | 3.9 | 48 | J | 7.9 | 16 | 121 | -3.7 | 5.6 | 3.1 | 3 | J |
| 23 | 496 | 3.7 | 43 | J | 8.1 | 23 | 129 | -4.6 | 5.0 | 4.1 | 2 | J |
| 24 | 517 | 4.1 | 55 | J | 8.7 | 25 | 110 | -2.6 | 6.3 | 4.9 | 2 | J |

## DEC. 18, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 506 | 4.2 | 50 | J | 8.8 | 21 | 114 | -3.2 | 6.6 | 4.3 | 2 | J |
| 2 | 497 | 4.1 | 52 | J | 8.6 | 13 | 120 | -4.0 | 6.7 | 2.9 | 2 | J |
| 3 | 477 | 4.3 | 59 | J | 8.7 | 25 | 132 | -5.2 | 5.4 | 4.2 | 2 | J |
| 4 | 481 | 3.9 | 0 | C | 7.9 | -18 | 108 | -2.3 | 7.3 | -2.1 | 0 | J |
| 5 | 456 | 2.8 | 35 | J | 7.8 | -15 | 117 | -3.3 | 6.5 | -2.1 | 2 | J |
| 6 | 448 | 3.3 | 0 | C | 7.9 | -34 | 146 | -5.4 | 3.3 | -4.7 | 0 | C |
| 7 | 484 | 5.8 | 36 | J | 6.8 | -27 | 128 | -3.7 | 4.3 | -3.6 | 1 | J |
| 8 | 483 | 12.1 | 42 | J | 5.3 | -42 | 136 | -2.7 | 2.0 | -3.8 | 2 | J |
| 9 | 492 | 13.1 | 31 | J | 5.3 | -60 | 128 | -1.6 | 1.1 | -4.9 | 0 | J |
| 10 | 493 | 14.6 | 46 | J | 3.5 | -79 | 339 | 0.6 | -0.9 | -3.0 | 1 | J |
| 11 | 473 | 10.9 | 0 | C | 3.9 | -32 | 319 | 2.3 | -2.4 | -1.4 | 1 | C |
| 12 | 464 | 10.2 | 0 | C | 3.0 | -27 | 320 | 1.7 | -1.6 | -0.8 | 1 | C |
| 13 | 463 | 13.9 | 48 | J | 4.1 | -35 | 306 | 0.4 | -0.6 | -0.3 | 4 | J |
| 14 | 452 | 13.9 | 0 | C | 1.9 | -36 | 206 | -0.7 | -0.4 | -0.5 | 1 | C |
| 15 | 439 | 15.2 | 38 | J | 2.3 | -40 | 150 | -1.2 | 0.5 | -1.2 | 2 | J |
| 16 | 434 | 14.0 | 53 | J | 2.2 | -21 | 339 | 1.4 | -0.6 | -0.5 | 2 | J |
| 17 | 415 | 7.7 | 43 | J | 5.0 | -66 | 51 | 0.9 | 1.1 | -3.4 | 3 | J |
| 18 | 414 | 7.8 | 28 | J | 5.7 | -54 | 72 | 1.0 | 3.2 | -4.4 | 1 | J |
| 19 | 412 | 8.5 | 32 | J | 5.8 | -39 | 65 | 1.8 | 4.2 | -3.2 | 2 | J |
| 20 | 412 | 8.6 | 37 | J | 5.8 | -64 | 44 | 1.6 | 2.1 | -4.4 | 3 | J |
| 21 | 415 | 9.6 | 48 | J | 5.2 | -31 | 43 | 2.7 | 2.8 | -1.8 | 3 | J |
| 22 | 416 | 11.1 | 40 | J | 5.5 | -15 | 38 | 4.0 | 3.4 | -0.8 | 2 | J |
| 23 | 418 | 10.6 | 43 | J | 5.3 | -4 | 41 | 3.8 | 3.3 | 0.3 | 2 | J |
| 24 | 417 | 10.2 | 47 | J | 5.6 | -26 | 38 | 3.6 | 3.2 | -1.6 | 2 | J |

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### DEC. 19, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 9.7 | 45 | J | 6.1 | -35 | 123 | -2.0 | 3.4 | -1.9 | 4 | J |
| 2 | 401 | 9.8 | 43 | J | 7.1 | -21 | 94 | -0.4 | 5.7 | -1.2 | 4 | J |
| 3 | 386 | 8.7 | 48 | J | 5.4 | -8 | 102 | -0.6 | 2.8 | -0.1 | 5 | J |
| 4 | 367 | 7.1 | 51 | J | 5.1 | -15 | 153 | -4.1 | 2.2 | -1.1 | 2 | J |
| 5 | 385 | 10.0 | 61 | J | 4.4 | -2 | 137 | -3.1 | 2.9 | -0.2 | 2 | J |
| 6 | 409 | 14.5 | 0 | C | 11.9 | 23 | 105 | -2.3 | 9.0 | 3.2 | 9 | C |
| 7 | 506 | 27.8 | 0 | C | 16.1 | -17 | 112 | -5.4 | 12.8 | -6.0 | 5 | C |
| 8 | 549 | 48.2 | 0 | C | 14.2 | -4 | 130 | -2.3 | 12.9 | -3.1 | 4 | C |
| 9 | 551 | 52.9 | 0 | C | 16.9 | -19 | 287 | 2.1 | -7.5 | -1.0 | 14 | C |
| 10 | 550 | 51.6 | 0 | C | 23.8 | 26 | 302 | 8.8 | -12.1 | 11.0 | 15 | C |
| 11 | 551 | 35.8 | 0 | C | 24.1 | -3 | 291 | 8.4 | -21.5 | 3.7 | 6 | C |
| 12 | 530 | 40.4 | 0 | C | 26.9 | -8 | 285 | 6.7 | -25.9 | 1.9 | 1 | C |
| 13 | 550 | 46.8 | 164 | J | 25.7 | -44 | 271 | 0.2 | -15.8 | -10.2 | 18 | J |
| 14 | 540 | 23.0 | 49 | J | 33.0 | -63 | 223 | -10.4 | -14.0 | -25.9 | 11 | J |
| 15 | 570 | 32.1 | 0 | C | 34.0 | -59 | 218 | -13.8 | -14.1 | -27.4 | 3 | C |
| 16 | 522 | 17.3 | 36 | J | 35.5 | -63 | 149 | -15.1 | 7.0 | -31.1 | 4 | J |
| 17 | 552 | 10.4 | 66 | J | 34.3 | -58 | 149 | -14.9 | 8.5 | -27.9 | 9 | J |
| 18 | 543 | 9.8 | 98 | J | 33.4 | -50 | 138 | -15.8 | 15.1 | -24.7 | 5 | J |
| 19 | 522 | 6.9 | 83 | J | 32.3 | -42 | 131 | -15.7 | 19.9 | -19.9 | 3 | J |
| 20 | 512 | 3.1 | 51 | J | 31.7 | -33 | 123 | -14.3 | 24.2 | -14.0 | 4 | J |
| 21 | 514 | 3.1 | 59 | J | 30.7 | -30 | 122 | -13.9 | 24.6 | -11.2 | 4 | J |
| 22 | 510 | 3.3 | 43 | J | 30.5 | -25 | 123 | -14.8 | 24.8 | -8.0 | 5 | J |
| 23 | 491 | 4.0 | 0 | C | 29.9 | -17 | 130 | -18.3 | 23.2 | -4.0 | 2 | J |
| 24 | 500 | 6.1 | 41 | J | 29.2 | -11 | 120 | -14.2 | 25.2 | -0.3 | 4 | J |

### DEC. 20, 1980

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 472 | 5.9 | 0 | C | 27.4 | 3 | 116 | -12.0 | 23.9 | 6.1 | 1 | J |
| 472 | 8.7 | 31 | J | 28.0 | 7 | 112 | -10.4 | 24.8 | 7.5 | 2 | J |
| 501 | 10.7 | 29 | J | 31.1 | 12 | 118 | -14.3 | 25.9 | 9.6 | 1 | J |
| 507 | 12.2 | 34 | J | 30.2 | 21 | 107 | -8.2 | 26.1 | 12.4 | 3 | J |
| 493 | 11.2 | 21 | J | 29.6 | 23 | 100 | -4.6 | 26.4 | 11.4 | 5 | J |
| 479 | 11.2 | 24 | J | 28.8 | 33 | 101 | -4.6 | 24.6 | 14.2 | 2 | J |
| 539 | 3.9 | 0 | C | 29.4 | 38 | 95 | -1.9 | 24.8 | 15.4 | 2 | C |
| 539 | 3.9 | 0 | C | 28.9 | 37 | 96 | -2.3 | 25.4 | 13.2 | 3 | C |
| 483 | 6.9 | 40 | J | 29.8 | 61 | 75 | 3.7 | 18.8 | 22.7 | 3 | J |
| 481 | 8.9 | 28 | J | 29.6 | 61 | 69 | 5.1 | 18.6 | 22.3 | 2 | J |
| 475 | 8.6 | 29 | J | 30.0 | 62 | 62 | 6.5 | 17.9 | 23.2 | 0 | C |
| 469 | 5.6 | 83 | J |  |  |  |  |  |  |  |  |
| 473 | 2.9 | 103 | J | 25.2 | 87 | 313 | 0.9 | 3.7 | 24.8 | 2 | J |
| 436 | 8.0 | 110 | J | 21.7 | 75 | 0 | 5.6 | 3.2 | 20.5 | 3 | J |
| 437 | 7.0 | 43 | J | 21.3 | 67 | 351 | 8.2 | 0.9 | 19.5 | 3 | J |
| 464 | 24.1 | 141 | L | 14.0 | -32 | 134 | -4.5 | 4.4 | -4.4 | 13 | J |
| 495 | 18.9 | 89 | J | 20.1 | -38 | 134 | -10.5 | 10.8 | -11.9 | 6 | J |
| 483 | 13.8 | 100 | J | 13.8 | 21 | 100 | -2.1 | 11.5 | 5.1 | 6 | J |
| 497 | 11.5 | 168 | J | 9.8 | 49 | 78 | 1.1 | 4.5 | 6.5 | 6 | J |
| 577 | 3.4 | 186 | J | 12.0 | 52 | 47 | 3.8 | 3.1 | 7.5 | 7 | C |
| 580 | 8.5 | 80 | J | 8.0 | 20 | 122 | -3.6 | 5.3 | 3.5 | 4 | J |
| 598 | 10.1 | 34 | J | 6.0 | 24 | 141 | -4.3 | 2.9 | 3.1 | 0 | J |
| 593 | 12.5 | 34 | J | 6.0 | 14 | 128 | -3.5 | 4.0 | 2.3 | 1 | J |
| 607 | 20.8 | 34 | J | 5.2 | 26 | 145 | -3.5 | 1.9 | 2.5 | 2 | J |

### DEC. 21, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 583 | 22.2 | 34 | J | 5.0 | 7 | 110 | -1.1 | 2.8 | 1.0 | 4 | J |
| 2 | 587 | 26.8 | 37 | J | 4.3 | -11 | 244 | -1.5 | -2.9 | -1.2 | 2 | J |
| 3 | 593 | 20.2 | 44 | J | 5.2 | 42 | 206 | -3.2 | -2.0 | 3.0 | 2 | J |
| 4 |  |  |  |  | 5.6 | 40 | 206 | -3.7 | -2.0 | 3.3 | 2 | C |
| 5 | 588 | 16.6 | 38 | J | 6.0 | 65 | 146 | -2.1 | 1.3 | 5.4 | 1 | J |
| 6 | 584 | 17.9 | 42 | J | 7.3 | 62 | 155 | -2.9 | 1.7 | 6.0 | 3 | J |
| 7 | 583 | 29.2 | 58 | J | 5.5 | 17 | 75 | 1.1 | 4.4 | 0.9 | 3 | J |
| 8 | 579 | 11.9 | 47 | J | 8.4 | 23 | 85 | 0.7 | 8.0 | 2.0 | 1 | J |
| 9 | 580 | 23.1 | 66 | J | 6.0 | -41 | 282 | 0.6 | -3.3 | -2.0 | 5 | J |
| 10 | 566 | 15.5 | 48 | J | 7.2 | -39 | 269 | -0.1 | -6.1 | -3.1 | 2 | J |
| 11 | 582 | 11.0 | 43 | J | 6.7 | -20 | 223 | -4.5 | -4.5 | -1.3 | 2 | J |
| 12 | 585 | 10.9 | 45 | J | 5.8 | -2 | 210 | -4.8 | -2.8 | 0.4 | 2 | J |
| 13 | 555 | 8.7 | 0 | C | 5.6 | 4 | 200 | -5.3 | -1.8 | 0.7 | 1 | J |
| 14 | 560 | 8.2 | 46 | J | 5.1 | -6 | 201 | -4.6 | -1.8 | -0.3 | 0 | J |
| 15 | 553 | 9.7 | 35 | J | 4.8 | -8 | 191 | -4.6 | -0.9 | -0.6 | 1 | J |
| 16 | 540 | 6.8 | 13 | L | 4.8 | -10 | 183 | -4.7 | -0.3 | -0.8 | 1 | J |
| 17 | 533 | 7.1 | 0 | C | 4.9 | -17 | 184 | -4.6 | -0.3 | -1.4 | 0 | C |
| 18 | 529 | 10.5 | 27 | J | 5.8 | -3 | 178 | -5.7 | 0.2 | -0.3 | 1 | J |
| 19 | 526 | 8.9 | 11 | L | 4.8 | 0 | 188 | -4.6 | -0.6 | -0.1 | 2 | J |
| 20 | 523 | 17.8 | 33 | J | 6.2 | -6 | 193 | -5.6 | -1.2 | -0.8 | 2 | J |
| 21 | 523 | 18.4 | 35 | J | 6.1 | 5 | 184 | -5.7 | -0.5 | 0.4 | 2 | J |
| 22 | 518 | 20.3 | 39 | J | 5.9 | 22 | 174 | -5.2 | 0.1 | 2.2 | 2 | J |
| 23 | 519 | 13.0 | 38 | J | 5.4 | 12 | 180 | -5.0 | -0.2 | 1.0 | 2 | J |
| 24 | 516 | 10.2 | 48 | J | 6.9 | -14 | 199 | -6.2 | -1.7 | -2.1 | 1 | J |

### DEC. 22, 1980

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 512 | 8.4 | 43 | J | 6.5 | -22 | 216 | -4.8 | -2.9 | -3.1 | 1 | J |
| 500 | 9.2 | 30 | J | 6.2 | -19 | 215 | -4.7 | -2.9 | -2.5 | 0 | J |
| 457 | 12.4 | 26 | J | 5.3 | -16 | 198 | -4.5 | -1.3 | -1.5 | 2 | J |
| 477 | 19.0 | 22 | J | 2.8 | -31 | 209 | -2.0 | -1.0 | -1.5 | 1 | J |
| 518 | 16.8 | 28 | J | 2.5 | -40 | 220 | -1.4 | -1.2 | -1.6 | 1 | J |
| 473 | 15.3 | 27 | J | 3.9 | -15 | 196 | -3.6 | -1.1 | -1.0 | 1 | J |
| 469 | 11.9 | 33 | J | 4.2 | -16 | 190 | -4.0 | -0.8 | -1.1 | 1 | J |
| 459 | 15.3 | 26 | J | 4.2 | -10 | 190 | -4.1 | -0.8 | -0.6 | 1 | J |
| 453 | 10.6 | 23 | J | 4.3 | -15 | 192 | -4.1 | -1.0 | -0.9 | 1 | J |
| 449 | 11.6 | 19 | J | 4.2 | -31 | 191 | -3.5 | -1.1 | -1.9 | 1 | J |
| 447 | 11.5 | 17 | J | 3.8 | -16 | 182 | -3.5 | -0.3 | -0.9 | 1 | J |
| 446 | 10.2 | 17 | J | 4.8 | -7 | 170 | -4.7 | 0.7 | -0.7 | 0 | J |
| 432 | 9.3 | 20 | J | 4.3 | -6 | 177 | -4.3 | 0.1 | -0.5 | 1 | J |
| 430 | 8.9 | 21 | J | 4.4 | -6 | 176 | -4.4 | 0.2 | -0.5 | 0 | J |
| 428 | 10.5 | 26 | J | 4.0 | 0 | 170 | -3.8 | 0.7 | -0.1 | 1 | J |
| 469 | 7.8 | 34 | J | 4.0 | -5 | 176 | -4.0 | 0.3 | -0.4 | 0 | J |
| 417 | 10.4 | 28 | J | 4.0 | -2 | 176 | -4.0 | 0.3 | -0.1 | 0 | J |
| 419 | 11.1 | 30 | J | 4.3 | -10 | 180 | -4.2 | 0.0 | -0.7 | 0 | J |
| 413 | 12.1 | 24 | J | 4.1 | -6 | 183 | -4.0 | -0.2 | -0.4 | 1 | J |
| 411 | 12.2 | 22 | J | 4.1 | -4 | 190 | -3.9 | -0.6 | -0.4 | 1 | J |
| 409 | 14.2 | 21 | J | 3.8 | -3 | 193 | -3.6 | -0.8 | -0.3 | 1 | J |
| 408 | 15.3 | 18 | J | 3.0 | 5 | 185 | -2.8 | -0.3 | 0.2 | 1 | J |
| 408 | 16.9 | 17 | J | 3.4 | 22 | 184 | -3.1 | -0.5 | 1.2 | 1 | J |
| 403 | 14.5 | 15 | J | 3.5 | 19 | 186 | -3.1 | -0.6 | 1.0 | 1 | J |

### DEC. 23, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 402 | 17.0 | 15 | J | 3.6 | 14 | 184 | -3.3 | -0.4 | 0.8 | 1 | J |
| 2 | 391 | 16.9 | 14 | J | 3.9 | 15 | 174 | -3.7 | 0.2 | 1.1 | 1 | J |
| 3 | 387 | 16.6 | 16 | J | 3.7 | 9 | 165 | -3.3 | 0.8 | 0.7 | 1 | J |
| 4 | 390 | 17.7 | 15 | J | 3.9 | 2 | 186 | -3.8 | -0.4 | 0.1 | 1 | J |
| 5 | 386 | 20.8 | 23 | J | 4.9 | 13 | 193 | -4.5 | -1.1 | 1.0 | 1 | J |
| 6 | 423 | 17.2 | 0 | C | 3.8 | 8 | 205 | -3.4 | -1.6 | 0.6 | 0 | C |
| 7 | 416 | 18.0 | 0 | C | 3.7 | 3 | 208 | -3.2 | -1.7 | 0.3 | 0 | C |
| 8 | 418 | 20.0 | 0 | C | 3.9 | 1 | 209 | -3.4 | -1.9 | 0.3 | 0 | C |
| 9 | 411 | 20.7 | 0 | C | 4.5 | 11 | 206 | -3.9 | -1.7 | 1.2 | 1 | C |
| 10 | 376 | 26.1 | 16 | J | 3.3 | -38 | 173 | -2.6 | -0.1 | -2.1 | 0 | J |
| 11 | 370 | 27.1 | 15 | J | 3.2 | -22 | 175 | -3.0 | 0.0 | -1.2 | 1 | J |
| 12 | 369 | 24.2 | 14 | J | 3.2 | -46 | 152 | -1.8 | 0.6 | -2.3 | 1 | J |
| 13 | 365 | 9.7 | 13 | J | 5.0 | -20 | 178 | -4.5 | -0.1 | -1.6 | 1 | J |
| 14 | 376 | 19.1 | 20 | J | 5.4 | -19 | 178 | -5.0 | -0.0 | -1.7 | 0 | J |
| 15 | 354 | 9.2 | 0 | C | 5.5 | -23 | 179 | -5.0 | -0.1 | -2.1 | 0 | C |
| 16 | 350 | 10.8 | 18 | J | 5.4 | -14 | 195 | -5.0 | -1.4 | -1.2 | 1 | J |
| 17 | 337 | 13.2 | 15 | J | 5.2 | -10 | 200 | -4.7 | -1.7 | -0.9 | 1 | J |
| 18 | 339 | 12.6 | 17 | J | 4.6 | -14 | 201 | -4.0 | -1.5 | -1.2 | 1 | J |
| 19 | 332 | 13.6 | 13 | J | 4.4 | -12 | 205 | -3.7 | -1.6 | -1.1 | 1 | J |
| 20 | 338 | 9.2 | 17 | J | 5.3 | -8 | 211 | -4.4 | -2.5 | -1.1 | 1 | J |
| 21 | 332 | 10.0 | 15 | J | 5.0 | 2 | 211 | -4.1 | -2.5 | -0.3 | 1 | J |
| 22 | 329 | 12.3 | 15 | J | 4.6 | 8 | 200 | -4.0 | -1.6 | 0.3 | 1 | J |
| 23 | 327 | 12.2 | 16 | J | 4.6 | 19 | 201 | -3.8 | -1.7 | 1.0 | 2 | J |
| 24 | 320 | 10.4 | 18 | J | 4.5 | -8 | 185 | -4.0 | -0.2 | -0.6 | 2 | J |

### DEC. 24, 1980

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 523 | 12.9 | 20 | J | 4.6 | -33 | 155 | -3.3 | 2.1 | -2.0 | 1 | J |
| 520 | 12.8 | 19 | J | 4.7 | -37 | 146 | -3.1 | 2.6 | -2.4 | 1 | J |
| 315 | 10.7 | 0 | C | 4.3 | -12 | 165 | -4.1 | 1.2 | -0.7 | 0 | J |
| 305 | 10.9 | 14 | J | 4.2 | -14 | 178 | -3.9 | 0.2 | -0.9 | 1 | J |
| 304 | 11.6 | 12 | J | 4.4 | 33 | 176 | -3.6 | 0.2 | 2.3 | 1 | J |
| 304 | 11.1 | 14 | J | 4.5 | 42 | 185 | -3.2 | -0.2 | 2.9 | 1 | J |
| 304 | 10.3 | 12 | J | 4.3 | 39 | 177 | -3.3 | 0.4 | 2.6 | 1 | J |
| 308 | 10.9 | 12 | J | 4.0 | 43 | 154 | -2.5 | 1.6 | 2.4 | 1 | J |
| 300 | 9.7 | 13 | J | 4.0 | 30 | 176 | -3.3 | 0.5 | 1.8 | 1 | J |
| 309 | 12.9 | 22 | J | 3.7 | 34 | 159 | -2.8 | 1.4 | 1.8 | 1 | J |
| 316 | 16.4 | 24 | J | 4.2 | 43 | 168 | -2.9 | 1.1 | 2.6 | 1 | J |
| 325 | 20.0 | 19 | J | 5.0 | 47 | 145 | -2.7 | 2.5 | 3.2 | 1 | J |
| 325 | 21.9 | 16 | J | 4.9 | 27 | 138 | -3.2 | 3.2 | 1.7 | 1 | J |
| 323 | 17.8 | 15 | J | 5.7 | 20 | 124 | -2.9 | 4.5 | 1.3 | 1 | J |
| 324 | 18.4 | 15 | J | 5.5 | 17 | 120 | -2.6 | 4.7 | 1.2 | 1 | J |
| 311 | 19.2 | 17 | J | 5.2 | 24 | 135 | -2.9 | 2.9 | 1.9 | 2 | J |
| 312 | 20.1 | 19 | J | 5.1 | 19 | 124 | -2.6 | 3.8 | 1.9 | 1 | J |
| 309 | 19.7 | 17 | J | 5.0 | -4 | 122 | -2.6 | 4.2 | 0.2 | 1 | J |
| 307 | 15.5 | 0 | C | 5.9 | 11 | 172 | -5.7 | 0.6 | 1.2 | 1 | C |
| 306 | 16.2 | 0 | C | 5.8 | -6 | 178 | -5.7 | 0.3 | -0.5 | 1 | C |
| 302 | 15.9 | 0 | C | 5.6 | -16 | 178 | -5.3 | 0.5 | -1.4 | 1 | C |
| 305 | 16.3 | 0 | C | 5.6 | -22 | 146 | -4.0 | 3.0 | -1.2 | 2 | C |
| 302 | 17.5 | 0 | C | 5.6 | -11 | 169 | -5.1 | 1.3 | -0.8 | 2 | C |

### DEC. 25, 1980

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 300 | 17.7 | 0 | C | 5.3 | 31 | 176 | -4.4 | -0.3 | 2.7 | 1 | C |
| 2 | 302 | 16.4 | 0 | C | 5.4 | 23 | 181 | -4.9 | -0.5 | 2.0 | 1 | C |
| 3 | 304 | 17.1 | 0 | C | 5.2 | 5 | 157 | -4.6 | 1.9 | 0.7 | 1 | C |
| 4 | 305 | 19.3 | 0 | C | 5.0 | -17 | 141 | -3.4 | 2.9 | -1.0 | 2 | C |
| 5 | 300 | 20.0 | 0 | C | 5.6 | -18 | 134 | -3.6 | 3.7 | -1.5 | 1 | C |
| 6 | 312 | 23.8 | 0 | C | 6.2 | 2 | 107 | -1.7 | 5.7 | 0.1 | 1 | C |
| 7 | 327 | 38.2 | 0 | C | 10.5 | 67 | 308 | 2.4 | -2.4 | 9.3 | 3 | C |
| 8 | 331 | 44.8 | 0 | C | 9.2 | 83 | 34 | 0.9 | 1.7 | 8.7 | 3 | C |
| 9 | 327 | 40.1 | 0 | C | 6.9 | 76 | 67 | 0.6 | 2.3 | 5.5 | 3 | C |
| 10 | 323 | 33.6 | 0 | C | 7.5 | 41 | 137 | -2.7 | 3.1 | 2.8 | 5 | C |
| 11 | 314 | 36.0 | 0 | C | 5.8 | -14 | 117 | -2.4 | 4.4 | -2.2 | 2 | C |
| 12 | 315 | 28.8 | 0 | C | 8.2 | 62 | 274 | 0.3 | -2.6 | 7.7 | 1 | C |
| 13 | 311 | 26.3 | 0 | C | 7.0 | 62 | 271 | 0.0 | -2.3 | 6.5 | 1 | C |
| 14 | 318 | 26.2 | 0 | C | 5.2 | 56 | 285 | 0.7 | -2.1 | 4.3 | 2 | C |
| 15 | 317 | 20.3 | 0 | C | 6.8 | 52 | 144 | -3.1 | 2.6 | 4.8 | 2 | C |
| 16 | 327 | 16.1 | 0 | C | 8.4 | 53 | 160 | -4.7 | 1.9 | 6.6 | 1 | C |
| 17 | 329 | 15.1 | 0 | C | 8.2 | 59 | 276 | 0.4 | -3.5 | 5.5 | 5 | C |
| 18 | 340 | 16.6 | 0 | C | 6.7 | 42 | 126 | -2.8 | 3.5 | 4.7 | 2 | C |
| 19 | 341 | 15.0 | 0 | C | 6.5 | 20 | 125 | -3.5 | 4.7 | 2.9 | 0 | C |
| 20 | 346 | 14.0 | 0 | C | 7.3 | 4 | 132 | -4.6 | 4.9 | 1.4 | 2 | C |
| 21 | 354 | 15.0 | 0 | C | 7.1 | -18 | 164 | -6.2 | 2.2 | -1.7 | 2 | C |
| 22 | 352 | 17.1 | 0 | C | 6.9 | -21 | 197 | -5.9 | -1.2 | -2.7 | 2 | C |
| 23 | 352 | 18.5 | 0 | C | 8.4 | -20 | 170 | -7.6 | 1.9 | -2.4 | 2 | C |
| 24 | 343 | 20.1 | 0 | C | 7.7 | -6 | 216 | -5.6 | -3.8 | -1.7 | 3 | C |

### DEC. 26, 1980

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 333 | 20.9 | 0 | C | 6.3 | -2 | 233 | -3.6 | -4.7 | -1.4 | 1 | C |
| 327 | 21.1 | 0 | C | 6.3 | -10 | 220 | -2.2 | -1.7 | -0.9 | 6 | C |
| 320 | 20.2 | 0 | C | 7.3 | -29 | 151 | -5.0 | 3.2 | -2.6 | 3 | C |
| 320 | 18.4 | 0 | C | 7.1 | -16 | 121 | -3.4 | 6.0 | -1.3 | 1 | C |
| 319 | 17.3 | 0 | C | 7.2 | -20 | 118 | -3.1 | 5.9 | -2.1 | 1 | C |
| 311 | 17.7 | 0 | C | 7.2 | -32 | 148 | -4.9 | 3.0 | -3.6 | 2 | C |
| 314 | 18.4 | 0 | C | 6.7 | -34 | 162 | -4.7 | 1.3 | -3.5 | 2 | C |
| 316 | 17.9 | 0 | C | 6.7 | -23 | 151 | -4.6 | 2.3 | -2.5 | 3 | C |
| 313 | 17.7 | 0 | C | 6.2 | -15 | 157 | -5.2 | 1.9 | -1.8 | 2 | C |
| 310 | 16.1 | 0 | C | 6.4 | -22 | 160 | -4.7 | 1.4 | -2.3 | 3 | C |
| 315 | 13.7 | 0 | C | 7.3 | -25 | 156 | -6.0 | 2.1 | -3.5 | 1 | C |
| 321 | 13.6 | 0 | C | 7.1 | -13 | 120 | -3.2 | 5.2 | -2.3 | 2 | C |
| 333 | 13.9 | 0 | C | 7.3 | -23 | 122 | -3.4 | 5.0 | -3.5 | 2 | C |
| 338 | 15.8 | 0 | C | 6.9 | -13 | 122 | -2.0 | 3.1 | -1.2 | 6 | C |
| 347 | 18.8 | 0 | C | 5.5 | 52 | 13 | 3.1 | 1.0 | 4.1 | 1 | C |
| 339 | 15.4 | 0 | C | 7.2 | 47 | 325 | 4.0 | -2.7 | 5.2 | 1 | C |
| 329 | 10.1 | 0 | C | 8.2 | 36 | 317 | 4.8 | -4.7 | 4.6 | 1 | C |
| 325 | 10.0 | 0 | C | 7.0 | 43 | 117 | -2.2 | 4.0 | 5.0 | 1 | C |
| 333 | 9.4 | 0 | C | 6.8 | 45 | 117 | -2.2 | 3.6 | 5.3 | 0 | C |
| 338 | 8.7 | 0 | C | 6.8 | 36 | 119 | -2.5 | 3.8 | 4.6 | 2 | C |
| 335 | 9.0 | 0 | C | 6.7 | 17 | 126 | -3.6 | 4.4 | 2.9 | 2 | C |
| 335 | 9.7 | 0 | C | 6.7 | 6 | 125 | -3.6 | 4.9 | 1.9 | 2 | C |
| 342 | 9.5 | 0 | C | 6.9 | 40 | 116 | -2.2 | 3.3 | 5.3 | 2 | C |
| 351 | 9.4 | 0 | C | 6.3 | 71 | 43 | 1.4 | -0.1 | 5.8 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 350 | 9.2 | 0 | C | 6.0 | 69 | 359 | 2.1 | -1.4 | 5.4 | 1 | C |
| 2 | 341 | 9.9 | 0 | C | 5.3 | 44 | 139 | -2.2 | 1.2 | 3.1 | 3 | C |
| 3 | 341 | 10.4 | 0 | C | 5.8 | 17 | 127 | -3.3 | 4.0 | 2.5 | 1 | C |
| 4 | 343 | 9.0 | 0 | C | 6.4 | 25 | 131 | -3.5 | 3.6 | 2.9 | 2 | C |
| 5 | 346 | 7.7 | 0 | C | 7.6 | -25 | 106 | -1.9 | 6.6 | -2.8 | 2 | C |
| 6 | 344 | 5.7 | 0 | C | 8.2 | -36 | 102 | -1.3 | 6.0 | -4.5 | 3 | C |
| 7 | 356 | 5.0 | 0 | C | 9.1 | -40 | 101 | -1.3 | 6.4 | -6.3 | 1 | C |
| 8 | 364 | 5.3 | 0 | C | 8.5 | -18 | 100 | -1.4 | 7.6 | -3.4 | 1 | C |
| 9 | 366 | 7.1 | 0 | C | 10.8 | -7 | 93 | -0.6 | 10.4 | -2.8 | 2 | C |
| 10 | 372 | 7.7 | 0 | C | 12.1 | 4 | 88 | 0.3 | 11.9 | -1.1 | 2 | C |
| 11 | 375 | 7.5 | 0 | C | 11.5 | -7 | 99 | -1.6 | 9.9 | -2.9 | 4 | C |
| 12 | 375 | 7.8 | 0 | C | 11.7 | -42 | 114 | -3.3 | 6.2 | -8.4 | 4 | C |
| 13 | 371 | 7.6 | 0 | C | 11.7 | -6 | 105 | -2.9 | 10.4 | -2.5 | 3 | C |
| 14 | 370 | 7.4 | 0 | C | 11.3 | 14 | 94 | -0.8 | 10.9 | 1.5 | 2 | C |
| 15 | 362 | 6.9 | 0 | C | 11.2 | 11 | 101 | -2.1 | 10.4 | 1.5 | 3 | C |
| 16 | 351 | 6.7 | 0 | C | 11.3 | 23 | 102 | -2.1 | 10.0 | 4.2 | 2 | C |
| 17 | 338 | 6.6 | 0 | C | 11.3 | 16 | 122 | -5.6 | 8.7 | 3.3 | 3 | C |
| 18 | 339 | 6.6 | 0 | C | 11.5 | 11 | 116 | -4.4 | 8.8 | 2.8 | 5 | C |
| 19 | 348 | 7.3 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 359 | 8.1 | 0 | C | 11.4 | 24 | 87 | 0.5 | 9.0 | 6.2 | 2 | C |
| 21 | 339 | 8.5 | 0 | C | 11.3 | 12 | 129 | -5.8 | 6.6 | 3.6 | 6 | C |
| 22 | 346 | 8.8 | 0 | C | 10.8 | -7 | 117 | -4.6 | 9.0 | 1.1 | 2 | C |
| 23 | 341 | 8.3 | 0 | C | 10.1 | 18 | 118 | -4.4 | 7.2 | 5.1 | 2 | C |
| 24 | 334 | 7.5 | 0 | C | 9.6 | 10 | 118 | -3.9 | 6.8 | 3.5 | 4 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 336 | 6.9 | 0 | C | 10.1 | 7 | 115 | -4.2 | 8.1 | 3.4 | 2 | C |
| 323 | 7.0 | 0 | C | 10.0 | 13 | 120 | -4.7 | 7.5 | 4.1 | 1 | C |
| 317 | 7.1 | 0 | C | 9.8 | 19 | 114 | -3.6 | 7.5 | 4.5 | 2 | C |
| 328 | 7.2 | 0 | C | 9.6 | 18 | 107 | -2.5 | 8.0 | 3.9 | 1 | C |
| 333 | 8.4 | 0 | C | 10.0 | 2 | 134 | -6.3 | 6.5 | 0.7 | 4 | C |
| 326 | 8.6 | 0 | C | 9.5 | 14 | 143 | -7.2 | 5.4 | 2.3 | 2 | C |
| 328 | 8.7 | 0 | C | 9.7 | 8 | 139 | -6.9 | 6.1 | 0.9 | 3 | C |
| 334 | 9.6 | 0 | C | 9.5 | 38 | 106 | -2.0 | 7.6 | 5.0 | 2 | C |
| 331 | 9.7 | 0 | C | 9.6 | 37 | 100 | -1.3 | 8.0 | 4.5 | 2 | C |
| 340 | 8.8 | 0 | C | 9.7 | 24 | 88 | 0.4 | 8.9 | 2.4 | 3 | C |
| 342 | 8.2 | 0 | C | 9.6 | 30 | 99 | -1.3 | 8.7 | 3.4 | 2 | C |
| 340 | 8.2 | 0 | C | 9.8 | 32 | 101 | -1.5 | 8.7 | 3.8 | 2 | C |
| 336 | 9.2 | 0 | C | 9.8 | 9 | 87 | 0.5 | 9.5 | 0.2 | 2 | C |
| 333 | 9.3 | 0 | C | 9.2 | 23 | 109 | -2.5 | 7.8 | 2.7 | 3 | C |
| 341 | 7.6 | 0 | C | 9.1 | 3 | 121 | -3.9 | 6.5 | 0.1 | 5 | C |
| 337 | 7.1 | 0 | C | 9.5 | 10 | 152 | -7.7 | 4.1 | 1.5 | 3 | C |
| 332 | 7.4 | 0 | C | 10.2 | 4 | 169 | -9.7 | 1.9 | 0.8 | 2 | C |
| 323 | 6.9 | 0 | C | 10.4 | 6 | 185 | -10.3 | -1.0 | 1.0 | 0 | C |
| 316 | 6.7 | 0 | C | 10.1 | 9 | 181 | -9.9 | -0.4 | 1.6 | 1 | C |
| 315 | 6.7 | 0 | C | 9.4 | 9 | 174 | -9.2 | 0.7 | 1.6 | 1 | C |
| 315 | 6.5 | 0 | C | 8.7 | 2 | 176 | -8.5 | 0.5 | 0.4 | 1 | C |
| 293 | 8.6 | 0 | C | 8.4 | -1 | 183 | -8.3 | -0.4 | -0.3 | 1 | C |
| 309 | 4.9 | 19 | J | 8.6 | 10 | 160 | -7.7 | 2.3 | 2.2 | 2 | J |
| 317 | 7.1 | 39 | J | 8.4 | 12 | 143 | -6.2 | 4.1 | 2.9 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 310 | 5.0 | 32 | J | 8.2 | -9 | 149 | -6.8 | 4.3 | -0.2 | 2 | C |
| 2 | 315 | 6.1 | 26 | J | 8.3 | -36 | 142 | -4.9 | 4.8 | -3.6 | 3 | C |
| 3 | 308 | 11.2 | 21 | J | 8.2 | -12 | 149 | -6.6 | 4.2 | -0.9 | 1 | J |
| 4 | 299 | 10.1 | 0 | C | 9.0 | 20 | 138 | -5.9 | 4.8 | 3.6 | 3 | C |
| 5 | 320 | 5.7 | 37 | J | 8.4 | 1 | 142 | -6.4 | 5.0 | 0.5 | 2 | J |
| 6 | 292 | 10.3 | 0 | C | 8.6 | -9 | 126 | -4.8 | 6.6 | -1.2 | 2 | J |
| 7 | 332 | 8.3 | 23 | J | 8.4 | -14 | 115 | -3.0 | 6.3 | -2.1 | 4 | J |
| 8 | 332 | 7.8 | 27 | J | 7.8 | -11 | 124 | -4.0 | 5.8 | -1.9 | 3 | J |
| 9 | 346 | 7.7 | 24 | J | 7.8 | -11 | 92 | -0.2 | 6.7 | -2.2 | 3 | J |
| 10 | 351 | 8.2 | 25 | J | 7.9 | 12 | 73 | 2.1 | 7.2 | 0.5 | 3 | J |
| 11 | 316 | 6.7 | 22 | J | 7.9 | -12 | 145 | -5.3 | 3.5 | -1.9 | 4 | J |
| 12 | 315 | 7.3 | 32 | J | 8.2 | -19 | 139 | -5.6 | 4.5 | -3.2 | 2 | J |
| 13 | 329 | 10.5 | 38 | J | 12.2 | -17 | 128 | -6.9 | 8.4 | -4.5 | 3 | J |
| 14 | 347 | 12.5 | 39 | J | 15.3 | -11 | 125 | -7.9 | 11.0 | -3.6 | 6 | J |
| 15 | 335 | 11.8 | 40 | J | 14.7 | -3 | 126 | -8.3 | 11.4 | -1.3 | 3 | J |
| 16 | 320 | 16.3 | 0 | C | 13.7 | -18 | 122 | -6.5 | 10.5 | -4.0 | 4 | C |
| 17 | 304 | 15.5 | 0 | C | 13.6 | 6 | 135 | -9.3 | 9.2 | 1.8 | 3 | C |
| 18 | 307 | 16.4 | 0 | C | 13.6 | 2 | 128 | -7.6 | 9.7 | 1.6 | 6 | C |
| 19 | 306 | 15.6 | 0 | C | 13.3 | -23 | 117 | -5.5 | 11.5 | -3.3 | 1 | C |
| 20 | 307 | 15.7 | 0 | C | 12.5 | -19 | 119 | -5.5 | 10.5 | -1.8 | 2 | C |
| 21 | 323 | 17.6 | 0 | C | 11.9 | -14 | 101 | -2.0 | 11.3 | -0.1 | 3 | C |
| 22 | 344 | 11.9 | 26 | J | 11.0 | -25 | 131 | -5.8 | 7.5 | -2.2 | 5 | J |
| 23 | 358 | 14.0 | 47 | J | 9.5 | -58 | 104 | -1.2 | 6.8 | -6.2 | 1 | J |
| 24 | 354 | 17.4 | 51 | J | 9.3 | -49 | 99 | -0.9 | 7.7 | -5.0 | 1 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 343 | 20.8 | 31 | J | 8.8 | -20 | 102 | -1.5 | 7.6 | -0.7 | 4 | J |
| 342 | 21.7 | 22 | J | 8.1 | 20 | 86 | 0.5 | 6.4 | 4.3 | 2 | J |
| 336 | 21.7 | 15 | J | 7.2 | 34 | 91 | -0.1 | 4.8 | 4.9 | 2 | J |
| 327 | 15.4 | 29 | J | 7.5 | -47 | 129 | -3.1 | 4.5 | -4.7 | 2 | J |
| 310 | 14.5 | 28 | J | 7.1 | 22 | 138 | -4.6 | 3.9 | 2.8 | 2 | J |
| 314 | 13.4 | 28 | J | 7.7 | -47 | 130 | -2.8 | 3.4 | -4.6 | 4 | J |
| 320 | 12.0 | 25 | J | 7.3 | -69 | 122 | -1.3 | 1.9 | -6.7 | 2 | J |
| 338 | 18.9 | 43 | J | 9.0 | -51 | 131 | -3.5 | 3.4 | -6.8 | 5 | J |
| 370 | 34.3 | 45 | J | 12.9 | -53 | 114 | -3.1 | 5.6 | -10.7 | 3 | J |
| 349 | 33.0 | 64 | J | 8.8 | -23 | 128 | -4.5 | 5.2 | -3.9 | 4 | J |
| 340 | 29.3 | 50 | J | 8.6 | -37 | 141 | -5.1 | 3.4 | -5.5 | 2 | J |
| 337 | 27.4 | 43 | J | 8.2 | -27 | 133 | -3.8 | 3.6 | -3.3 | 5 | J |
| 338 | 25.0 | 41 | J | 7.0 | 8 | 100 | -1.0 | 6.0 | 0.2 | 4 | J |
| 334 | 23.6 | 36 | J | 6.7 | 17 | 106 | -1.6 | 5.7 | 1.3 | 3 | J |
| 333 | 21.8 | 33 | J | 6.5 | 35 | 97 | -0.6 | 5.3 | 3.4 | 1 | J |
| 326 | 20.6 | 41 | J | 5.2 | 36 | 133 | -2.4 | 2.5 | 2.6 | 3 | J |
| 319 | 18.7 | 49 | J | 4.6 | 9 | 161 | -4.1 | 1.4 | 0.8 | 1 | J |
| 311 | 16.1 | 41 | J | 4.4 | 18 | 163 | -3.6 | 1.0 | 1.4 | 2 | J |
| 308 | 14.4 | 36 | J | 4.2 | -4 | 180 | -3.8 | 0.0 | -0.3 | 2 | J |
| 289 | 14.8 | 0 | C | 3.1 | -22 | 117 | -1.1 | 2.4 | -0.5 | 2 | J |
| 308 | 13.0 | 34 | J | 3.0 | -8 | 126 | -1.5 | 2.1 | 0.2 | 1 | J |
| 328 | 9.6 | 54 | J | 3.5 | 6 | 131 | -2.0 | 2.1 | 0.9 | 2 | J |
| 324 | 20.7 | 37 | J | 2.6 | 13 | 116 | -0.7 | 1.2 | 0.7 | 2 | J |
| 334 | 24.9 | 38 | J | 5.3 | 52 | 340 | 2.9 | -2.2 | 3.5 | 1 | J |

DEC. 31, 1980 366

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 335 | 20.2 | 0 | C | 6.0 | 70 | 38 | 1.6 | -0.3 | 5.8 | 0 | J |
| 2 | 355 | 10.0 | 68 | J | 9.1 | -30 | 308 | 4.3 | -4.4 | -5.3 | 4 | J |
| 3 | 368 | 6.6 | 45 | J | 10.8 | -26 | 303 | 5.0 | -6.6 | -6.0 | 3 | J |
| 4 | 371 | 7.2 | 43 | J | 10.4 | -38 | 297 | 3.7 | -6.2 | -7.4 | 2 | J |
| 5 | 377 | 8.8 | 103 | J | 6.2 | -7 | 318 | 4.4 | -3.9 | -1.1 | 2 | J |
| 6 |  |  |  |  | 7.5 | 60 | 342 | 3.5 | -1.3 | 6.3 | 2 | J |
| 7 | 451 | 2.9 | 90 | J | 9.7 | -66 | 47 | 0.9 | 0.9 | -3.0 | 9 | J |
| 8 | 495 | 2.1 | 95 | J | 8.2 | 77 | 31 | 1.2 | 1.2 | 5.9 | 6 | J |
| 9 | 480 | 1.2 | 62 | J | 9.1 | 60 | 1 | 4.5 | 0.9 | 7.7 | 2 | J |
| 10 | 439 | 1.5 | 256 | L | 9.5 | 49 | 340 | 5.7 | -1.2 | 7.2 | 2 | J |
| 11 | 480 | 2.4 | 53 | J | 9.6 | 63 | 339 | 3.8 | -0.4 | 8.1 | 3 | J |
| 12 | 475 | 3.0 | 51 | J | 9.5 | 76 | 338 | 2.1 | 0.3 | 9.1 | 2 | J |
| 13 | 476 | 2.9 | 59 | J | 8.9 | 62 | 326 | 2.6 | -1.1 | 6.1 | 6 | J |
| 14 | 445 | 3.0 | 41 | J | 9.4 | 9 | 326 | 7.4 | -4.9 | 1.8 | 2 | J |
| 15 | 432 | 2.6 | 127 | L | 9.5 | -6 | 323 | 7.1 | -5.4 | -0.8 | 3 | J |
| 16 | 420 | 2.7 | 41 | J | 9.0 | -1 | 331 | 7.6 | -4.2 | -0.2 | 2 | J |
| 17 | 426 | 3.2 | 76 | J | 9.4 | 5 | 339 | 7.9 | -3.1 | 0.5 | 4 | J |
| 18 | 467 | 2.9 | 63 | J | 9.2 | -32 | 292 | 2.8 | -6.2 | -5.4 | 3 | J |
| 19 | 433 | 2.6 | 48 | J | 9.0 | -20 | 318 | 5.6 | -4.5 | -3.6 | 4 | J |
| 20 | 434 | 1.9 | 84 | L | 8.7 | -33 | 323 | 5.8 | -3.2 | -5.5 | 1 | J |
| 21 | 430 | 2.2 | 42 | J | 8.5 | -26 | 328 | 6.4 | -2.9 | -4.6 | 2 | J |
| 22 | 430 | 2.0 | 38 | J | 8.2 | -29 | 328 | 5.8 | -2.4 | -4.6 | 3 | J |
| 23 | 418 | 1.8 | 40 | J | 8.2 | -21 | 327 | 6.1 | -3.0 | -3.8 | 3 | J |
| 24 | 426 | 1.7 | 41 | J | 8.2 | 22 | 337 | 6.3 | -3.4 | 1.9 | 4 | J |

JAN. 1, 1981 1

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 401 | 1.6 | 127 | L | 8.2 | 22 | 336 | 6.2 | -3.4 | 1.9 | 4 | C |
| 401 | 1.4 | 31 | J | 8.5 | -20 | 322 | 6.2 | -3.9 | -3.9 | 2 | C |
| 404 | 0.9 | 26 | J | 8.7 | -37 | 314 | 4.7 | -3.8 | -6.0 | 2 | C |
| 406 | 2.5 | 25 | J | 8.1 | -13 | 310 | 4.7 | -5.3 | -2.5 | 3 | J |
| 415 | 2.6 | 30 | J | 7.6 | 9 | 313 | 5.1 | -5.6 | 0.7 | 1 | J |
| 413 | 2.8 | 31 | J | 7.8 | 1 | 308 | 4.7 | -6.0 | -0.1 | 1 | J |
| 413 | 3.1 | 0 | C | 7.0 | -43 | 316 | 3.5 | -3.5 | -4.5 | 2 | J |
| 417 | 3.5 | 0 | C | 7.0 | -50 | 325 | 3.0 | -2.5 | -4.2 | 4 | C |
| 407 | 4.8 | 52 | J | 5.9 | -58 | 284 | 0.7 | -3.4 | -4.5 | 1 | J |
| 415 | 4.2 | 38 | J | 7.4 | -78 | 279 | 0.2 | -2.1 | -6.1 | 4 | J |
| 427 | 4.0 | 29 | J | 7.6 | -67 | 128 | -1.8 | 1.4 | -7.2 | 1 | J |
| 401 | 3.5 | 0 | C | 7.0 | 22 | 309 | 4.0 | -4.6 | 3.1 | 1 | C |
| 406 | 3.6 | 0 | C | 7.2 | 27 | 308 | 3.8 | -4.5 | 3.7 | 1 | C |
| 403 | 3.8 | 37 | J | 6.4 | 26 | 302 | 2.9 | -4.4 | 2.9 | 2 | J |
| 408 | 4.2 | 63 | J | 6.1 | -26 | 341 | 4.2 | -1.5 | -2.1 | 3 | J |
| 388 | 4.5 | 40 | J | 6.1 | -29 | 308 | 2.8 | -3.5 | -2.6 | 3 | J |
| 395 | 5.5 | 35 | J | 5.9 | -60 | 356 | 2.3 | 0.1 | -4.0 | 4 | J |
| 387 | 5.7 | 0 | C | 6.7 | -68 | 351 | 2.0 | 0.3 | -5.1 | 4 | C |
| 379 | 5.9 | 0 | C | 6.8 | -46 | 2 | 3.9 | 0.9 | -4.0 | 4 | C |
| 370 | 6.0 | 0 | C | 7.1 | -37 | 323 | 4.1 | -2.2 | -4.5 | 2 | C |
| 365 | 5.9 | 0 | C | 7.2 | -14 | 356 | 6.4 | -0.1 | -1.7 | 3 | C |
| 367 | 6.4 | 0 | C | 7.3 | 7 | 329 | 6.0 | -3.7 | -0.2 | 2 | C |
| 371 | 6.9 | 0 | C | 7.2 | 31 | 313 | 4.0 | -5.2 | 2.2 | 2 | C |
| 368 | 7.0 | 0 | C | 7.1 | 23 | 316 | 4.5 | -4.9 | 1.2 | 2 | C |

JAN. 2, 1981 2

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 7.1 | 0 | C | 7.0 | 24 | 317 | 4.1 | -4.4 | 1.3 | 3 | C |
| 2 | 370 | 7.3 | 0 | C | 6.9 | 8 | 31 | 5.7 | 3.1 | 1.8 | 2 | J |
| 3 | 373 | 7.3 | 0 | C | 6.8 | 38 | 332 | 2.4 | -1.7 | 1.8 | 6 | J |
| 4 | 367 | 7.3 | 0 | C | 7.3 | 19 | 297 | 3.2 | -6.4 | 1.4 | 1 | C |
| 5 | 365 | 7.4 | 0 | C | 7.1 | 13 | 298 | 2.0 | -3.9 | 0.6 | 6 | J |
| 6 | 369 | 7.5 | 0 | C | 7.5 | -79 | 308 | 0.8 | -0.7 | -6.3 | 4 | J |
| 7 | 369 | 6.7 | 27 | J | 7.5 | -35 | 305 | 2.8 | -4.0 | -3.3 | 4 | J |
| 8 | 379 | 6.7 | 34 | J | 7.3 | 39 | 310 | 3.0 | -3.4 | 4.1 | 4 | J |
| 9 | 384 | 6.7 | 0 | C | 8.1 | -13 | 317 | 5.3 | -5.1 | -1.2 | 3 | C |
| 10 | 384 | 6.7 | 0 | C | 7.5 | -31 | 322 | 4.6 | -4.1 | -3.1 | 3 | C |
| 11 | 390 | 6.8 | 0 | C | 7.3 | 3 | 309 | 4.0 | -4.9 | 1.0 | 2 | C |
| 12 | 390 | 7.1 | 0 | C | 7.2 | -18 | 331 | 5.8 | -3.4 | -1.7 | 1 | C |
| 13 | 389 | 7.4 | 0 | C | 7.0 | -17 | 333 | 4.4 | -2.3 | -1.3 | 4 | C |
| 14 | 392 | 7.8 | 0 | C | 7.1 | -11 | 318 | 4.3 | -3.9 | -0.9 | 3 | C |
| 15 | 396 | 8.1 | 0 | C | 7.3 | 22 | 328 | 4.6 | -2.8 | 2.2 | 4 | C |
| 16 | 400 | 8.3 | 0 | C | 7.5 | -32 | 307 | 3.4 | -4.5 | -3.7 | 3 | C |
| 17 | 380 | 8.1 | 39 | J | 7.1 | -26 | 346 | 5.1 | -1.1 | -2.6 | 4 | J |
| 18 | 382 | 8.0 | 45 | J | 7.0 | -39 | 335 | 4.4 | -1.5 | -4.1 | 3 | J |
| 19 | 384 | 7.8 | 45 | J | 7.2 | -19 | 329 | 4.7 | -2.4 | -2.4 | 4 | J |
| 20 | 386 | 8.8 | 49 | J | 7.3 | 21 | 352 | 5.1 | -1.1 | 1.8 | 5 | J |
| 21 | 392 | 6.5 | 58 | J | 7.7 | -11 | 313 | 5.0 | -4.8 | -2.8 | 2 | J |
| 22 | 421 | 5.6 | 60 | J | 8.3 | 19 | 302 | 4.0 | -6.9 | 0.6 | 2 | J |
| 23 | 416 | 5.5 | 57 | J | 8.3 | -20 | 294 | 2.9 | -5.5 | -4.5 | 3 | J |
| 24 | 400 | 5.1 | 60 | J | 8.1 | -47 | 343 | 4.8 | 0.2 | -5.6 | 3 | J |

JAN. 3, 1981 3

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 407 | 4.3 | 43 | J | 8.4 | -25 | 325 | 5.3 | -2.7 | -3.9 | 4 | C |
| 416 | 5.4 | 0 | C | 7.9 | -19 | 316 | 4.0 | -3.2 | -2.9 | 5 | J |
| 416 | 5.5 | 0 | C | 8.2 | 17 | 306 | 4.3 | -6.3 | 0.9 | 3 | J |
| 442 | 4.9 | 73 | J | 8.3 | 10 | 304 | 3.9 | -5.9 | 0.2 | 4 | J |
| 421 | 5.5 | 0 | C | 8.2 | -7 | 312 | 4.8 | -5.2 | -1.5 | 4 | J |
| 417 | 5.0 | 56 | J | 8.1 | -20 | 319 | 5.0 | -4.2 | -2.6 | 4 | J |
| 431 | 5.2 | 82 | J | 8.0 | -35 | 316 | 4.1 | -4.0 | -3.9 | 4 | J |
| 437 | 5.7 | 64 | J | 8.0 | 12 | 307 | 4.1 | -5.3 | 1.7 | 4 | J |
| 416 | 5.2 | 49 | J | 8.1 | 18 | 319 | 5.3 | -4.4 | 2.7 | 3 | J |
| 413 | 4.9 | 44 | J | 8.2 | 19 | 318 | 5.4 | -4.6 | 3.0 | 3 | J |
| 406 | 4.9 | 50 | J | 8.5 | -7 | 324 | 5.9 | -4.3 | -0.4 | 4 | J |
| 399 | 4.5 | 44 | J | 8.4 | 14 | 334 | 6.0 | -2.7 | 2.0 | 5 | J |
| 431 | 5.1 | 62 | J | 8.4 | 25 | 307 | 4.0 | -5.0 | 3.5 | 4 | J |
| 395 | 5.2 | 57 | J | 8.3 | -3 | 331 | 6.9 | -3.8 | -0.2 | 3 | J |
| 408 | 5.5 | 65 | J | 8.5 | 24 | 318 | 5.4 | -4.8 | 3.3 | 3 | J |
| 408 | 5.5 | 62 | J | 8.7 | 18 | 319 | 5.5 | -4.8 | 2.2 | 4 | J |
| 418 | 5.3 | 49 | J | 9.1 | 35 | 320 | 4.8 | -4.4 | 4.0 | 5 | J |
| 443 | 5.6 | 67 | J | 9.4 | 57 | 294 | 2.0 | -5.4 | 6.8 | 3 | J |
| 407 | 5.5 | 70 | J | 8.7 | 14 | 322 | 5.4 | -4.5 | 0.9 | 5 | J |
| 391 | 5.9 | 77 | J | 9.0 | -5 | 335 | 7.9 | -3.4 | -1.6 | 2 | J |
| 410 | 5.7 | 91 | J | 9.3 | 36 | 324 | 5.6 | -5.3 | 3.8 | 3 | J |
| 419 | 5.6 | 80 | J | 9.9 | 37 | 309 | 4.9 | -7.6 | 3.8 | 2 | J |
| 404 | 6.2 | 96 | J | 10.1 | 24 | 313 | 6.1 | -7.5 | 1.8 | 2 | J |
| 420 | 7.0 | 0 | C | 10.6 | -14 | 327 | 8.2 | -4.3 | -3.9 | 3 | C |

OR
OF POOR QUALITY

01/04/81 – 01/11/81

## JAN. 4, 1981

4

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 425 | 6.9 | 0 | C | 10.6 | -43 | 335 | 6.9 | -0.9 | -7.6 | 2 | C |
| 2 | 431 | 6.5 | 0 | C | 10.9 | -47 | 346 | 7.1 | 0.4 | -8.0 | 2 | C |
| 3 | 422 | 5.8 | 0 | C | 11.2 | -25 | 329 | 8.3 | -3.9 | -5.5 | 3 | C |
| 4 | 450 | 4.7 | 80 | J | 11.0 | -2 | 314 | 7.0 | -7.1 | -1.6 | 4 | J |
| 5 | 421 | 4.2 | 63 | J | 10.9 | -21 | 341 | 9.3 | -2.7 | -4.1 | 3 | J |
| 6 | 431 | 4.6 | 91 | J | 10.6 | -7 | 339 | 9.0 | -3.4 | -1.4 | 4 | J |
| 7 | 451 | 5.0 | 115 | J | 10.0 | 7 | 330 | 7.7 | -4.5 | 1.1 | 4 | J |
| 8 | 492 | 6.6 | 196 | J | 8.5 | 6 | 12 | 3.0 | 0.7 | 0.3 | 8 | J |
| 9 | 445 | 4.9 | 111 | J | 9.7 | -7 | 318 | 6.9 | -6.3 | -0.6 | 2 | J |
| 10 | 453 | 3.8 | 74 | J | 10.3 | 9 | 325 | 8.2 | -5.6 | 2.2 | 1 | J |
| 11 | 441 | 3.4 | 59 | J | 10.6 | 22 | 331 | 8.4 | -4.2 | 4.4 | 2 | J |
| 12 | 432 | 2.8 | 55 | J | 11.0 | 22 | 324 | 8.2 | -5.5 | 4.7 | 2 | J |
| 13 | 452 | 3.3 | 67 | J | 11.2 | 12 | 312 | 7.3 | -7.9 | 3.0 | 1 | J |
| 14 | 459 | 3.6 | 77 | J | 11.3 | 7 | 312 | 7.5 | -8.3 | 1.8 | 1 | J |
| 15 | 442 | 3.5 | 64 | J | 11.2 | 6 | 317 | 8.1 | -7.5 | 1.2 | 2 | J |
| 16 | 449 | 5.0 | 83 | J | 10.7 | 3 | 313 | 6.9 | -7.5 | 0.2 | 3 | J |
| 17 | 457 | 8.9 | 82 | J | 10.1 | 33 | 301 | 3.8 | -6.8 | 4.2 | 5 | J |
| 18 | 455 | 9.1 | 76 | J | 9.8 | 55 | 335 | 4.5 | -3.1 | 6.7 | 5 | J |
| 19 | 439 | 6.9 | 77 | J | 9.2 | -4 | 317 | 5.9 | -5.3 | -1.6 | 4 | J |
| 20 | 459 | 8.6 | 129 | J | 8.3 | -24 | 297 | 3.1 | -5.1 | -4.4 | 4 | J |
| 21 | 463 | 9.2 | 127 | J | 8.2 | 42 | 321 | 3.8 | -4.1 | 3.3 | 5 | J |
| 22 | 468 | 10.0 | 125 | J | 7.9 | 48 | 329 | 3.8 | -3.7 | 4.0 | 4 | J |
| 23 | 459 | 9.8 | 0 | C | 8.1 | 28 | 312 | 4.0 | -5.2 | 1.6 | 5 | J |
| 24 | 516 | 6.9 | 180 | J | 7.9 | 26 | 324 | 4.9 | -4.3 | 1.7 | 4 | J |

## JAN. 5, 1981

5

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 515 | 6.5 | 132 | J | 8.2 | 30 | 325 | 5.7 | -5.1 | 2.6 | 1 | J |
| 2 | 505 | 6.7 | 0 | C | 7.6 | 18 | 316 | 4.9 | -5.2 | 0.9 | 2 | C |
| 3 | 500 | 6.4 | 0 | C | 7.0 | 3 | 301 | 3.4 | -5.6 | -1.0 | 2 | C |
| 4 | 528 | 4.2 | 108 | J | 5.4 | -1 | 299 | 2.5 | -4.4 | -0.9 | 2 | J |
| 5 | 497 | 5.1 | 130 | J | 5.1 | 14 | 273 | 0.2 | -3.8 | 0.5 | 3 | J |
| 6 | 450 | 4.8 | 69 | J | 6.6 | 8 | 297 | 2.9 | -5.7 | 0.5 | 1 | J |
| 7 | 456 | 4.8 | 78 | J | 6.1 | 7 | 299 | 2.8 | -5.0 | 0.7 | 2 | J |
| 8 | 446 | 6.4 | 69 | J | 5.9 | 3 | 305 | 2.7 | -3.8 | 0.4 | 4 | J |
| 9 | 434 | 6.5 | 69 | J | 6.4 | 15 | 299 | 2.8 | -4.9 | 1.9 | 2 | J |
| 10 | 436 | 6.9 | 102 | J | 6.5 | -2 | 297 | 2.6 | -5.2 | 0.3 | 3 | J |
| 11 | 428 | 6.7 | 0 | C | 6.9 | -1 | 291 | 2.1 | -5.3 | 0.5 | 3 | C |
| 12 | 427 | 6.8 | 0 | C | 6.9 | 6 | 293 | 2.3 | -5.2 | 1.1 | 3 | C |
| 13 | 442 | 5.8 | 0 | C | 7.3 | 44 | 59 | 2.7 | 4.9 | 4.7 | 0 | C |
| 14 | 464 | 3.7 | 125 | J | 5.7 | -11 | 321 | 3.6 | -2.9 | -0.8 | 3 | J |
| 15 | 481 | 4.0 | 101 | J | 5.7 | -10 | 299 | 2.2 | -4.0 | -0.8 | 3 | J |
| 16 | 494 | 4.4 | 110 | J | 5.8 | 23 | 284 | 0.8 | -3.5 | 1.3 | 4 | J |
| 17 | 469 | 4.6 | 97 | J | 5.7 | 2 | 295 | 2.1 | -4.4 | -0.3 | 3 | J |
| 18 | 469 | 4.5 | 71 | J | 5.5 | 24 | 333 | 3.2 | -1.8 | 1.3 | 4 | J |
| 19 | 470 | 4.8 | 65 | J | 5.7 | 0 | 313 | 3.1 | -3.3 | -0.7 | 3 | J |
| 20 | 491 | 5.0 | 76 | J | 6.0 | 22 | 283 | 0.9 | -4.2 | 0.6 | 4 | J |
| 21 | 506 | 5.0 | 58 | J | 6.2 | -19 | 258 | -1.0 | -4.1 | -2.9 | 3 | J |
| 22 | 467 | 4.8 | 57 | J | 6.1 | 38 | 350 | 3.3 | -1.3 | 2.3 | 4 | J |
| 23 | 465 | 4.6 | 51 | J | 6.0 | 40 | 334 | 3.5 | -2.7 | 2.5 | 3 | J |
| 24 | 454 | 4.2 | 40 | J | 5.8 | -3 | 318 | 3.8 | -3.1 | -1.4 | 3 | J |

## JAN. 6, 1981

6

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 453 | 4.4 | 0 | C | 6.2 | -16 | 305 | 3.2 | -3.8 | -2.9 | 2 | C |
| 2 | 453 | 4.5 | 0 | C | 6.0 | 17 | 314 | 3.6 | -4.0 | 0.5 | 2 | C |
| 3 | 460 | 4.7 | 0 | C | 6.2 | -18 | 336 | 3.6 | -1.3 | -1.6 | 4 | C |
| 4 | 451 | 4.4 | 55 | J | 6.2 | 15 | 331 | 4.3 | -2.6 | 0.9 | 3 | C |
| 5 | 476 | 4.6 | 66 | J | 5.7 | 0 | 13 | 3.4 | 0.8 | 0.1 | 4 | C |
| 6 | 472 | 4.4 | 0 | C | 6.1 | 41 | 3 | 3.9 | -0.0 | 3.4 | 3 | C |
| 7 | 449 | 5.4 | 92 | J | 6.0 | 14 | 35 | 4.3 | 3.0 | 1.4 | 2 | C |
| 8 | 462 | 4.3 | 0 | C | 5.6 | 23 | 359 | 4.7 | -0.0 | 2.0 | 2 | C |
| 9 | 465 | 4.2 | 0 | C | 5.5 | 25 | 329 | 3.7 | -2.1 | 2.1 | 2 | C |
| 10 | 460 | 3.9 | 0 | C | 5.8 | 14 | 288 | 1.7 | -5.0 | 1.9 | 1 | C |
| 11 | 454 | 3.8 | 0 | C | 5.4 | 8 | 334 | 4.5 | -2.1 | 0.9 | 2 | C |
| 12 | 438 | 4.2 | 0 | C | 5.7 | 8 | 308 | 3.1 | -3.9 | 1.0 | 2 | C |
| 13 | 426 | 4.6 | 0 | C | 5.5 | -3 | 281 | 1.0 | -5.1 | 0.0 | 0 | C |
| 14 | | | | | | | | | | | | |
| 15 | 423 | 4.6 | 0 | C | | | | | | | | |
| 16 | 423 | 4.6 | 0 | C | 4.9 | 28 | 323 | 3.1 | -2.4 | 1.9 | 2 | C |
| 17 | 438 | 4.1 | 0 | C | 4.8 | 4 | 316 | 2.9 | -2.9 | -0.0 | 2 | C |
| 18 | 431 | 3.9 | 0 | C | 4.9 | 5 | 303 | 2.2 | -3.4 | -0.2 | 2 | C |
| 19 | 421 | 4.4 | 0 | C | 4.8 | -11 | 312 | 2.7 | -2.8 | -1.4 | 2 | C |
| 20 | 416 | 4.5 | 0 | C | 5.0 | 3 | 291 | 1.6 | -4.0 | -0.8 | 2 | C |
| 21 | 420 | 4.5 | 0 | C | 5.3 | -9 | 336 | 3.1 | -1.1 | -0.9 | 4 | C |
| 22 | 409 | 4.4 | 0 | C | 5.5 | -9 | 285 | 1.3 | -4.6 | -2.4 | 1 | C |
| 23 | 405 | 4.3 | 0 | C | 5.4 | 0 | 295 | 2.2 | -4.4 | -1.5 | 1 | C |
| 24 | 390 | 4.6 | 0 | C | 5.3 | -1 | 303 | 2.4 | -3.6 | -1.4 | 2 | C |

## JAN. 7, 1981

7

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 426 | 4.3 | 0 | C | 5.2 | -6 | 307 | 2.5 | -3.0 | -1.5 | 3 | C |
| 2 | 418 | 4.3 | 0 | C | 5.0 | -8 | 326 | 3.6 | -2.1 | -1.2 | 2 | C |
| 3 | 418 | 4.4 | 0 | C | 5.2 | -28 | 335 | 3.5 | -1.1 | -2.4 | 2 | C |
| 4 | 419 | 4.5 | 0 | C | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 410 | 4.8 | 0 | C | 5.4 | 23 | 279 | 0.8 | -4.8 | 2.0 | 0 | C |
| 8 | 410 | 4.8 | 0 | C | 5.5 | 23 | 310 | 2.8 | -3.2 | 2.0 | 3 | C |
| 9 | 417 | 4.7 | 0 | C | 5.4 | 73 | 16 | 1.4 | 0.7 | 4.8 | 2 | C |
| 10 | 423 | 4.9 | 0 | C | 5.5 | 59 | 23 | 2.5 | 1.4 | 4.3 | 2 | C |
| 11 | 406 | 5.0 | 0 | C | 5.5 | 7 | 340 | 4.7 | -1.6 | 0.8 | 2 | C |
| 12 | 371 | 5.3 | 0 | C | 5.3 | -7 | 347 | 4.4 | -1.1 | -0.5 | 2 | C |
| 13 | 384 | 4.9 | 0 | C | 5.3 | -6 | 316 | 3.7 | -3.6 | -0.3 | 1 | C |
| 14 | 379 | 4.8 | 0 | C | 5.3 | -17 | 312 | 3.3 | -3.7 | -1.4 | 1 | C |
| 15 | 386 | 4.6 | 0 | C | 5.2 | -12 | 306 | 2.5 | -3.5 | -0.9 | 2 | C |
| 16 | 395 | 4.8 | 0 | C | 5.1 | -19 | 304 | 2.5 | -3.6 | -1.7 | 2 | C |
| 17 | 385 | 4.9 | 0 | C | 5.0 | -16 | 330 | 3.5 | -1.9 | -1.4 | 2 | C |
| 18 | 391 | 5.6 | 0 | C | 5.0 | 45 | 41 | 2.4 | 1.6 | 3.5 | 1 | C |
| 19 | 386 | 5.6 | 0 | C | 5.5 | 75 | 69 | 0.5 | 0.1 | 5.2 | 1 | C |
| 20 | 382 | 5.8 | 0 | C | 5.0 | 36 | 332 | 3.3 | -2.4 | 2.1 | 1 | C |
| 21 | 377 | 5.5 | 0 | C | 5.3 | 0 | 279 | 0.8 | -4.4 | -1.4 | 2 | C |
| 22 | 370 | 5.1 | 0 | C | | | | | | | | |
| 23 | 368 | 5.1 | 0 | C | | | | | | | | |
| 24 | 368 | 5.1 | 0 | C | 6.2 | -12 | 284 | 1.3 | -4.7 | -3.0 | 2 | C |

## JAN. 8, 1981

8

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 376 | 5.2 | 0 | C | 6.1 | -12 | 278 | 0.8 | -4.9 | -3.0 | 1 | C |
| 2 | 372 | 5.5 | 0 | C | 6.2 | -16 | 282 | 1.1 | -4.7 | -3.2 | 2 | C |
| 3 | 376 | 5.8 | 0 | C | 5.9 | -12 | 279 | 0.8 | -4.9 | -2.4 | 1 | C |
| 4 | 373 | 5.9 | 0 | C | 5.7 | -5 | 273 | 0.3 | -5.1 | -1.5 | 2 | C |
| 5 | 370 | 6.0 | 0 | C | 5.8 | -14 | 288 | 1.5 | -4.5 | -1.9 | 2 | C |
| 6 | 377 | 6.1 | 0 | C | 5.5 | 6 | 293 | 1.5 | -3.7 | 0.1 | 3 | C |
| 7 | 383 | 6.2 | 0 | C | 5.5 | 29 | 287 | 1.0 | -3.2 | 1.8 | 4 | C |
| 8 | 386 | 6.3 | 0 | C | 5.9 | -31 | 258 | -0.9 | -4.3 | -2.5 | 3 | C |
| 9 | 383 | 6.3 | 0 | C | 5.6 | -19 | 284 | 1.0 | -4.1 | -1.2 | 3 | C |
| 10 | 379 | 6.6 | 0 | C | 6.0 | 26 | 15 | 5.0 | 1.5 | 2.3 | 1 | C |
| 11 | 379 | 6.9 | 0 | C | 6.6 | 26 | 359 | 5.2 | 0.1 | 2.6 | 3 | C |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 375 | 6.7 | 0 | C | 7.0 | 32 | 309 | 3.7 | -4.5 | 3.8 | 0 | C |
| 15 | 375 | 6.7 | 0 | C | 6.7 | 32 | 327 | 4.4 | -2.9 | 3.2 | 2 | C |
| 16 | 372 | 6.8 | 0 | C | 7.1 | -22 | 315 | 4.3 | -4.1 | -2.7 | 3 | C |
| 17 | 380 | 7.5 | 0 | C | 7.0 | -32 | 287 | 1.4 | -4.3 | -3.6 | 3 | C |
| 18 | 387 | 8.2 | 0 | C | 7.3 | -58 | 292 | 0.9 | -1.4 | -4.0 | 6 | C |
| 19 | 385 | 8.9 | 0 | C | 7.1 | 25 | 319 | 4.7 | -4.6 | 1.9 | 1 | C |
| 20 | 388 | 9.7 | 0 | C | 6.2 | 25 | 329 | 4.0 | -2.8 | 1.5 | 3 | C |
| 21 | 383 | 10.3 | 0 | C | 5.3 | -59 | 2 | 1.4 | 0.8 | -2.2 | 3 | C |
| 22 | 404 | 9.1 | 0 | C | 6.1 | -73 | 116 | -0.5 | 2.3 | -3.3 | 4 | C |
| 23 | 417 | 8.0 | 0 | C | 5.9 | -36 | 299 | 1.8 | -2.2 | -3.7 | 3 | C |
| 24 | 423 | 6.7 | 0 | C | 6.5 | -12 | 279 | 0.8 | -4.7 | -3.0 | 3 | C |

## JAN. 9, 1981

9

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 424 | 6.4 | 0 | C | 5.7 | 38 | 274 | 0.2 | -3.9 | 1.3 | 3 | C |
| 2 | 421 | 6.2 | 0 | C | 5.3 | -7 | 276 | 0.5 | -4.0 | -1.8 | 2 | C |
| 3 | 417 | 6.1 | 0 | C | 5.4 | -48 | 271 | 0.0 | -2.2 | -4.5 | 2 | C |
| 4 | 411 | 6.1 | 0 | C | 4.9 | -6 | 291 | 1.3 | -3.1 | -1.1 | 3 | C |
| 5 | 411 | 6.1 | 0 | C | 4.3 | 4 | 308 | 2.4 | -3.1 | -0.2 | 1 | C |
| 6 | 412 | 6.2 | 0 | C | 3.8 | 24 | 297 | 1.0 | -2.0 | 0.8 | 3 | C |
| 7 | 406 | 6.1 | 0 | C | 3.7 | 33 | 233 | -1.4 | -1.9 | 1.4 | 2 | C |
| 8 | 402 | 5.8 | 0 | C | 4.4 | 54 | 343 | 2.3 | -0.7 | 3.3 | 2 | C |
| 9 | 400 | 5.7 | 0 | C | 4.2 | 54 | 15 | 2.1 | 0.7 | 3.0 | 2 | C |
| 10 | 397 | 5.8 | 0 | C | 4.0 | 68 | 321 | 1.1 | -0.7 | 3.6 | 1 | C |
| 11 | 394 | 5.8 | 0 | C | 4.0 | 42 | 15 | 2.8 | 0.9 | 2.5 | 1 | C |
| 12 | 382 | 5.8 | 0 | C | | | | | | | | |
| 13 | 382 | 5.8 | 0 | C | 3.4 | 76 | 104 | -0.2 | 0.8 | 2.6 | 2 | C |
| 14 | 382 | 5.9 | 0 | C | 4.5 | -31 | 221 | -2.9 | -2.6 | -2.3 | 0 | C |
| 15 | 384 | 6.1 | 0 | C | 4.2 | -42 | 230 | -1.8 | -2.1 | -2.6 | 2 | C |
| 16 | 380 | 5.8 | 0 | C | 3.8 | -51 | 249 | -0.6 | -1.4 | -2.2 | 2 | C |
| 17 | 373 | 5.6 | 0 | C | 3.8 | -20 | 350 | 3.1 | -0.4 | -1.2 | 2 | C |
| 18 | 388 | 4.7 | 0 | C | 4.5 | -2 | 355 | 4.5 | -0.4 | -0.3 | 0 | C |
| 19 | 388 | 5.0 | 0 | C | 3.2 | 3 | 354 | 3.1 | -0.4 | 0.1 | 1 | C |
| 20 | 372 | 5.6 | 0 | C | 2.7 | 26 | 342 | 2.0 | -0.9 | 0.8 | 1 | C |
| 21 | 361 | 5.9 | 0 | C | 2.8 | 52 | 10 | 1.7 | -0.4 | 2.2 | 0 | C |
| 22 | 362 | 5.9 | 0 | C | 3.0 | -4 | 306 | 1.7 | -2.1 | -0.9 | 1 | C |
| 23 | 361 | 6.3 | 0 | C | 1.9 | 3 | 296 | 0.6 | -1.2 | -0.4 | 1 | C |
| 24 | 356 | 6.7 | 0 | C | 2.3 | -2 | 306 | 0.9 | -1.1 | -0.5 | 2 | C |

## JAN. 10, 1981

10

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 350 | 6.8 | 0 | C | 2.7 | 12 | 336 | 2.0 | -1.0 | 0.1 | 1 | C |
| 2 | 346 | 7.3 | 0 | C | 2.9 | -18 | 312 | 1.7 | -1.5 | -1.4 | 1 | C |
| 3 | 346 | 7.8 | 0 | C | 3.4 | 15 | 264 | -0.2 | -2.1 | -0.0 | 2 | C |
| 4 | 344 | 8.7 | 0 | C | 3.7 | -7 | 242 | -1.1 | -2.0 | -0.7 | 3 | C |
| 5 | 343 | 9.1 | 0 | C | 4.7 | -8 | 311 | 2.3 | -2.5 | -0.9 | 3 | C |
| 6 | 344 | 9.6 | 0 | C | 5.1 | -6 | 304 | 2.8 | -4.1 | -0.9 | 1 | C |
| 7 | 345 | 12.8 | 0 | C | 5.6 | -3 | 298 | 2.6 | -4.9 | -0.5 | 0 | C |
| 8 | 345 | 17.8 | 0 | C | 3.1 | 23 | 294 | 0.6 | -1.3 | 0.6 | 3 | C |
| 9 | 344 | 20.5 | 0 | C | 5.0 | 67 | 103 | -0.4 | 1.9 | 4.2 | 2 | C |
| 10 | 337 | 21.8 | 0 | C | 5.5 | 24 | 90 | -0.0 | 5.0 | 1.9 | 1 | C |
| 11 | 340 | 25.9 | 0 | C | 5.3 | -8 | 94 | -0.3 | 4.0 | -0.8 | 3 | J |
| 12 | 349 | 26.9 | 0 | C | 6.9 | -54 | 109 | -1.3 | 3.3 | -5.5 | 2 | J |
| 13 | 351 | 24.5 | 0 | C | | | | | | | | |
| 14 | 375 | 25.2 | 0 | C | 7.4 | 42 | 103 | -1.0 | 4.3 | 3.9 | 5 | C |
| 15 | 375 | 25.2 | 0 | C | 7.5 | -14 | 109 | -2.1 | 6.2 | -1.4 | 3 | J |
| 16 | 387 | 35.1 | 0 | C | 5.5 | -23 | 121 | -1.1 | 2.0 | -0.8 | 5 | J |
| 17 | 380 | 38.0 | 0 | C | 7.8 | 79 | 28 | 0.8 | -0.2 | 4.5 | 7 | J |
| 18 | 378 | 33.5 | 96 | L | 9.3 | 78 | 55 | 0.9 | -0.1 | 7.7 | 5 | J |
| 19 | 398 | 30.2 | 136 | L | 13.1 | -56 | 124 | -1.7 | 3.4 | -3.7 | 12 | J |
| 20 | 458 | 14.8 | 231 | L | 15.7 | -14 | 127 | -8.1 | 11.3 | -0.2 | 7 | J |
| 21 | 466 | 15.2 | 185 | J | 15.8 | 1 | 124 | -8.4 | 11.8 | 4.2 | 5 | J |
| 22 | 466 | 15.1 | 139 | J | 15.2 | -12 | 126 | -8.2 | 11.7 | 1.1 | 5 | J |
| 23 | 465 | 15.4 | 153 | J | 15.0 | -25 | 135 | -9.2 | 10.7 | -2.4 | 4 | J |
| 24 | 475 | 16.5 | 0 | C | 14.8 | -3 | 137 | -10.6 | 9.5 | 2.7 | 2 | C |

## JAN. 11, 1981

11

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 493 | 9.3 | 87 | J | 10.8 | -8 | 148 | -8.5 | 5.5 | 0.5 | 3 | J |
| 2 | 545 | 11.4 | 0 | C | 11.1 | -54 | 156 | -6.0 | 5.4 | -7.7 | 1 | J |
| 3 | 492 | 8.5 | 95 | J | 10.8 | -29 | 163 | -8.8 | 4.0 | -4.1 | 3 | J |
| 4 | 505 | 9.6 | 111 | J | 10.7 | -28 | 156 | -7.3 | 4.1 | -3.4 | 6 | J |
| 5 | 551 | 13.1 | 232 | J | 7.8 | -10 | 254 | -0.7 | -2.3 | -0.8 | 7 | J |
| 6 | 538 | 16.5 | 250 | J | 5.7 | -4 | 142 | -4.2 | 3.3 | -0.0 | 2 | J |
| 7 | 550 | 16.5 | 213 | J | 7.8 | -7 | 224 | -3.9 | -3.7 | -0.9 | 6 | J |
| 8 | 503 | 13.7 | 246 | J | 9.9 | -8 | 175 | -9.5 | 0.8 | -1.3 | 2 | J |
| 9 | 503 | 15.6 | 203 | J | 10.9 | -16 | 149 | -8.4 | 5.0 | -3.0 | 4 | J |
| 10 | 476 | 13.0 | 135 | J | 12.5 | -14 | 160 | -11.1 | 3.9 | -3.2 | 3 | J |
| 11 | 471 | 9.5 | 101 | J | 13.3 | -8 | 158 | -11.9 | 4.7 | -2.1 | 2 | J |
| 12 | 466 | 7.3 | 66 | J | 14.0 | -3 | 158 | -12.8 | 5.1 | -1.0 | 1 | J |
| 13 | 483 | 6.9 | 91 | J | 15.0 | -8 | 143 | -11.5 | 8.6 | -2.3 | 3 | J |
| 14 | 465 | 7.0 | 87 | J | 15.3 | -16 | 141 | -11.4 | 9.2 | -4.2 | 2 | J |
| 15 | 457 | 6.7 | 80 | J | 15.3 | -18 | 139 | -10.9 | 9.7 | -4.3 | 1 | J |
| 16 | 461 | 5.7 | 84 | J | 15.2 | -15 | 142 | -11.3 | 9.2 | -3.0 | 2 | J |
| 17 | 456 | 5.5 | 83 | J | 14.1 | -11 | 144 | -10.7 | 8.1 | -1.4 | 3 | J |
| 18 | 437 | 6.3 | 86 | J | 12.8 | 3 | 153 | -10.4 | 5.1 | 1.6 | 5 | J |
| 19 | 444 | 6.6 | 52 | J | 12.4 | -18 | 160 | -10.9 | 4.8 | -2.7 | 2 | J |
| 20 | 440 | 5.9 | 57 | J | 12.6 | -24 | 161 | -10.7 | 5.0 | -3.8 | 2 | J |
| 21 | 444 | 6.6 | 60 | J | 11.9 | -29 | 155 | -9.2 | 5.9 | -3.9 | 3 | J |
| 22 | 424 | 6.0 | 73 | J | 11.1 | -25 | 153 | -8.2 | 5.4 | -2.6 | 4 | J |
| 23 | 423 | 6.1 | 87 | J | 11.9 | -27 | 135 | -7.2 | 8.6 | -2.2 | 3 | J |
| 24 | 411 | 5.2 | 48 | J | 11.4 | -19 | 130 | -6.7 | 8.7 | -0.4 | 3 | J |

01/12/81 – 01/19/81

## JAN. 12, 1981 12

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 4.9 | 53 | J | 10.3 | -31 | 156 | -7.9 | 5.2 | -3.7 | 1 | C |
| 2 | 432 | 5.2 | 52 | J | 9.1 | 12 | 155 | -6.6 | 2.4 | 2.5 | 5 | J |
| 3 | 435 | 3.9 | 41 | J | 8.3 | 2 | 153 | -6.7 | 3.2 | 1.2 | 3 | J |
| 4 | 446 | 3.7 | 36 | J | 7.7 | -17 | 163 | -6.7 | 2.5 | -1.6 | 2 | J |
| 5 | 440 | 2.6 | 33 | J | 7.0 | -11 | 160 | -6.4 | 2.5 | -0.9 | 1 | J |
| 6 | 427 | 2.5 | 37 | L | 6.9 | -17 | 162 | -6.2 | 2.2 | -1.7 | 1 | J |
| 7 | 427 | 2.7 | 43 | J | 6.4 | -15 | 161 | -5.7 | 2.0 | -1.5 | 1 | J |
| 8 | 421 | 2.3 | 37 | L | 6.1 | -8 | 160 | -5.4 | 2.0 | -0.8 | 2 | J |
| 9 | 428 | 2.8 | 39 | J | 5.9 | 3 | 152 | -4.8 | 2.5 | 0.2 | 2 | J |
| 10 | 424 | 2.5 | 43 | J | 6.0 | -12 | 168 | -5.6 | 1.1 | -1.3 | 1 | J |
| 11 | 428 | 2.2 | 43 | J | 5.4 | -3 | 177 | -5.2 | 0.3 | -0.3 | 1 | J |
| 12 | 417 | 2.6 | 37 | J | 6.0 | -3 | 190 | -5.8 | -1.0 | -0.3 | 1 | J |
| 13 | 415 | 2.8 | 35 | J | 6.5 | -4 | 186 | -6.4 | -0.7 | -0.4 | 1 | J |
| 14 | 416 | 3.0 | 0 | C | 6.8 | 12 | 195 | -6.3 | -1.7 | 1.3 | 1 | C |
| 15 | 391 | 2.9 | 0 | C | 6.5 | 9 | 204 | -5.8 | -2.7 | 0.8 | 1 | C |
| 16 | 410 | 1.8 | 29 | L | 5.7 | -7 | 153 | -5.0 | 2.6 | -0.4 | 1 | J |
| 17 | 408 | 2.1 | 31 | L | 6.4 | -11 | 154 | -5.5 | 2.8 | -0.8 | 1 | J |
| 18 | 404 | 3.4 | 24 | J | 7.1 | -3 | 164 | -6.6 | 1.9 | 0.0 | 1 | J |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 399 | 2.8 | 24 | J | 6.6 | -4 | 160 | -6.1 | 2.3 | 0.2 | 1 | J |
| 21 | 397 | 3.2 | 25 | J | 6.9 | -12 | 148 | -5.5 | 3.7 | -0.2 | 2 | J |
| 22 | 403 | 3.2 | 24 | J | 6.7 | -12 | 128 | -4.0 | 5.2 | 0.5 | 1 | J |
| 23 | 416 | 3.6 | 26 | J | 6.9 | -2 | 134 | -4.6 | 4.6 | 1.6 | 1 | J |
| 24 | 410 | 3.7 | 26 | J | 6.9 | -4 | 132 | -4.5 | 4.9 | 1.4 | 1 | J |

## JAN. 13, 1981 13

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 420 | 3.7 | 31 | J | 6.9 | -9 | 127 | -4.0 | 5.3 | 0.9 | 2 | J |
| 2 | 411 | 3.7 | 25 | J | 7.6 | -21 | 121 | -3.6 | 6.6 | -0.6 | 1 | C |
| 3 | 410 | 4.1 | 22 | J | 7.4 | -23 | 122 | -3.6 | 6.4 | -1.1 | 1 | J |
| 4 | 410 | 4.2 | 22 | J | 7.7 | -20 | 128 | -4.3 | 6.1 | -1.2 | 1 | C |
| 5 | 425 | 4.5 | 25 | J | 7.9 | -20 | 119 | -3.6 | 6.8 | -1.4 | 1 | C |
| 6 | 387 | 3.0 | 29 | L | 7.8 | -15 | 128 | -4.5 | 6.0 | -1.2 | 2 | J |
| 7 | 385 | 2.6 | 24 | J | 7.7 | 26 | 140 | -5.3 | 4.2 | 3.7 | 1 | J |
| 8 | 395 | 2.1 | 31 | J | 7.6 | 7 | 138 | -5.0 | 4.5 | 0.9 | 3 | J |
| 9 | 368 | 1.4 | 28 | L | 7.8 | -7 | 135 | -5.1 | 5.1 | -1.0 | 2 | J |
| 10 | 370 | 1.5 | 41 | L | 7.7 | 4 | 125 | -4.2 | 6.0 | 0.3 | 2 | J |
| 11 | 407 | 2.9 | 21 | J | 7.7 | 2 | 120 | -3.4 | 6.0 | -0.0 | 3 | J |
| 12 | 387 | 2.9 | 26 | J | 7.7 | -23 | 136 | -4.8 | 4.5 | -3.0 | 3 | J |
| 13 | 392 | 3.4 | 26 | J | 7.8 | -34 | 141 | -4.6 | 3.6 | -4.0 | 3 | J |
| 14 | 384 | 3.2 | 25 | J | 7.9 | -25 | 137 | -4.8 | 4.5 | -3.0 | 3 | J |
| 15 | 386 | 3.3 | 31 | J | 7.5 | -21 | 132 | -4.6 | 5.3 | -2.4 | 2 | J |
| 16 | 384 | 3.5 | 27 | J | 7.5 | -22 | 128 | -4.1 | 5.5 | -2.1 | 2 | J |
| 17 | 356 | 2.5 | 43 | L | 7.6 | -29 | 152 | -5.3 | 3.3 | -2.9 | 3 | J |
| 18 | 357 | 2.6 | 38 | L | 7.5 | -38 | 149 | -5.0 | 3.9 | -3.8 | 1 | J |
| 19 | 376 | 3.0 | 23 | J | 7.5 | -27 | 136 | -4.7 | 5.2 | -2.0 | 2 | J |
| 20 | 384 | 4.3 | 27 | J | 7.8 | -15 | 119 | -3.6 | 6.7 | 0.0 | 2 | J |
| 21 | 370 | 4.1 | 18 | J | 7.8 | -26 | 133 | -4.7 | 5.8 | -1.5 | 2 | J |
| 22 | 388 | 4.2 | 27 | J | 7.7 | -33 | 119 | -3.1 | 6.7 | -1.8 | 1 | J |
| 23 | 381 | 3.7 | 0 | C | 7.8 | -28 | 124 | -3.8 | 6.5 | -1.2 | 1 | J |
| 24 | 361 | 3.8 | 0 | C | 7.2 | -17 | 156 | -6.1 | 3.3 | -0.9 | 2 | J |

## JAN. 14, 1981 14

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 366 | 3.3 | 23 | J | 7.4 | -18 | 139 | -5.1 | 4.9 | -0.4 | 2 | J |
| 2 | 358 | 3.2 | 20 | J | 7.4 | -11 | 130 | -4.5 | 5.5 | 0.5 | 2 | J |
| 3 | 347 | 3.6 | 28 | J | 7.5 | -18 | 148 | -5.9 | 4.2 | -1.0 | 2 | J |
| 4 | 350 | 2.4 | 46 | L | 7.6 | -25 | 185 | -6.5 | 0.2 | -3.1 | 2 | J |
| 5 | 360 | 2.9 | 31 | J | 7.6 | -32 | 193 | -6.1 | -0.6 | -4.1 | 2 | J |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 377 | 3.3 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 386 | 3.5 | 33 | J | 7.6 | -24 | 234 | -3.9 | -5.2 | -3.1 | 2 | J |
| 9 | 385 | 4.0 | 35 | J | 7.7 | -25 | 223 | -5.0 | -4.7 | -3.1 | 2 | J |
| 10 | 351 | 3.3 | 25 | J | 7.9 | -13 | 153 | -6.6 | 3.3 | -1.8 | 2 | J |
| 11 | 362 | 3.6 | 29 | J | 7.9 | -21 | 143 | -5.7 | 4.2 | -2.9 | 1 | J |
| 12 | 368 | 3.8 | 29 | J | 7.4 | -42 | 167 | -4.8 | 1.0 | -4.4 | 3 | J |
| 13 | 396 | 4.5 | 41 | J | 7.2 | -59 | 164 | -3.2 | 0.9 | -5.6 | 3 | J |
| 14 | 382 | 5.2 | 31 | J | 7.4 | -42 | 153 | -4.5 | 2.4 | -4.5 | 3 | J |
| 15 | 365 | 4.9 | 31 | J | 7.4 | -2 | 148 | -5.8 | 3.7 | -0.0 | 3 | J |
| 16 | 373 | 5.0 | 32 | J | 7.7 | 8 | 124 | -4.0 | 5.8 | 1.7 | 2 | J |
| 17 | 356 | 4.7 | 39 | J | 7.6 | 2 | 145 | -6.1 | 4.2 | 0.9 | 1 | J |
| 18 | 346 | 5.3 | 33 | J | 7.8 | 10 | 149 | -6.5 | 3.5 | 2.1 | 1 | J |
| 19 | 356 | 5.6 | 41 | J | 8.1 | 24 | 140 | -5.4 | 3.5 | 4.2 | 2 | J |
| 20 | 357 | 5.5 | 42 | J | 7.8 | 18 | 137 | -5.1 | 3.8 | 3.6 | 3 | J |
| 21 | 354 | 6.0 | 82 | J | 7.1 | 23 | 138 | -4.9 | 3.2 | 4.1 | 1 | J |
| 22 | 358 | 6.2 | 52 | J | 7.2 | 17 | 140 | -4.9 | 3.1 | 3.3 | 2 | J |
| 23 | 384 | 6.2 | 30 | J | 7.2 | -7 | 105 | -1.8 | 6.4 | 1.7 | 2 | J |
| 24 | 370 | 7.5 | 30 | J | 7.1 | -42 | 164 | -4.1 | 2.6 | -3.1 | 4 | J |

## JAN. 15, 1981 15

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 7.2 | 25 | J | 6.7 | -47 | 148 | -2.7 | 2.8 | -2.5 | 5 | J |
| 2 | 375 | 7.8 | 25 | J | 6.9 | 6 | 110 | -2.2 | 5.4 | 2.7 | 3 | J |
| 3 | 369 | 8.0 | 0 | C | 6.5 | 40 | 108 | -1.4 | 2.9 | 4.8 | 3 | J |
| 4 | 369 | 8.5 | 0 | C | 6.7 | 0 | 123 | -3.1 | 4.6 | 1.2 | 3 | C |
| 5 | 366 | 8.9 | 0 | C | 6.4 | 17 | 134 | -3.6 | 3.4 | 2.3 | 3 | C |
| 6 | 385 | 9.4 | 37 | J | 5.7 | 30 | 84 | 0.5 | 4.2 | 3.3 | 2 | J |
| 7 | 387 | 8.9 | 39 | J | 6.0 | -50 | 154 | -2.7 | 1.6 | -3.4 | 4 | J |
| 8 | 380 | 8.9 | 33 | J | 6.4 | -63 | 155 | -2.4 | 1.3 | -5.2 | 3 | J |
| 9 | 372 | 8.5 | 35 | J | 6.6 | -23 | 132 | -3.7 | 4.1 | -2.4 | 3 | J |
| 10 | 369 | 9.1 | 39 | J | 6.7 | -17 | 133 | -4.1 | 4.4 | -1.9 | 2 | J |
| 11 | 366 | 9.2 | 36 | J | 7.1 | 9 | 127 | -4.0 | 5.3 | 0.9 | 2 | J |
| 12 | 372 | 9.2 | 27 | J | 7.2 | 4 | 114 | -2.8 | 6.4 | 0.3 | 2 | J |
| 13 | 374 | 9.3 | 25 | J | 7.2 | 20 | 105 | -1.7 | 6.3 | 2.3 | 2 | J |
| 14 | 378 | 9.5 | 31 | J | 7.1 | 16 | 98 | -0.9 | 6.0 | 1.9 | 3 | J |
| 15 | 380 | 9.2 | 28 | J | 7.3 | 16 | 93 | -0.3 | 6.3 | 2.3 | 3 | J |
| 16 | 364 | 10.1 | 50 | J | 7.2 | -6 | 137 | -4.7 | 4.4 | -0.2 | 3 | J |
| 17 | 355 | 10.3 | 58 | J | 7.3 | -22 | 181 | -6.8 | 0.3 | -2.7 | 0 | J |
| 18 | 383 | 10.4 | 39 | J | 7.9 | -3 | 117 | -2.8 | 5.5 | 0.9 | 5 | J |
| 19 | 376 | 9.0 | 40 | J | 8.3 | 0 | 123 | -4.3 | 6.4 | 1.8 | 2 | J |
| 20 | 363 | 9.2 | 44 | J | 8.4 | -15 | 178 | -7.8 | 0.9 | -1.9 | 2 | J |
| 21 | 367 | 9.7 | 46 | J | 8.6 | 9 | 146 | -6.3 | 3.6 | 2.6 | 4 | J |
| 22 | 381 | 10.1 | 47 | J | 8.1 | -23 | 130 | -4.2 | 5.7 | -0.7 | 4 | J |
| 23 | 378 | 10.2 | 40 | J | 8.1 | -30 | 152 | -5.9 | 4.4 | -2.3 | 2 | J |
| 24 | 394 | 11.4 | 0 | C | 7.7 | -30 | 135 | -1.7 | 2.1 | -0.6 | 7 | C |

## JAN. 16, 1981 16

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 400 | 14.0 | 0 | C | 8.0 | 25 | 78 | 1.4 | 4.9 | 5.4 | 2 | C |
| 2 | 391 | 13.2 | 0 | C | 8.0 | -21 | 132 | -4.4 | 5.5 | -0.6 | 3 | C |
| 3 | 400 | 12.8 | 80 | J | 7.1 | -12 | 113 | -2.7 | 6.4 | 0.6 | 1 | J |
| 4 | 407 | 13.1 | 76 | J | 8.0 | -15 | 125 | -3.8 | 5.7 | -0.3 | 4 | J |
| 5 | 399 | 9.6 | 64 | J | 8.2 | -53 | 136 | -3.2 | 4.2 | -5.1 | 4 | J |
| 6 | 393 | 9.2 | 62 | J | 8.4 | -19 | 115 | -2.6 | 5.8 | -1.3 | 5 | J |
| 7 | 390 | 9.9 | 66 | J | 8.5 | -5 | 113 | -1.5 | 3.6 | -0.0 | 8 | J |
| 8 | 407 | 8.7 | 69 | J | 7.5 | 38 | 106 | -1.4 | 4.8 | 4.3 | 4 | J |
| 9 | 421 | 9.5 | 106 | J | 6.5 | 26 | 137 | -3.7 | 3.4 | 2.5 | 3 | J |
| 10 | 429 | 10.2 | 187 | J | 5.5 | 33 | 228 | -2.8 | -3.1 | 2.8 | 2 | J |
| 11 | 420 | 9.9 | 0 | C | 6.1 | 0 | 226 | -3.4 | -3.5 | 0.1 | 3 | C |
| 12 | 424 | 9.5 | 0 | C | 6.4 | 18 | 184 | -5.4 | -0.4 | 1.8 | 2 | C |
| 13 | 433 | 6.9 | 127 | J | 5.8 | -30 | 130 | -2.6 | 3.1 | -2.3 | 3 | J |
| 14 | 439 | 7.2 | 117 | J | 5.7 | -13 | 110 | -1.5 | 4.2 | -0.9 | 3 | J |
| 15 | 442 | 6.7 | 105 | J | 5.8 | -2 | 107 | -1.4 | 4.5 | 0.2 | 3 | J |
| 16 | 426 | 6.3 | 75 | J | 5.5 | 13 | 132 | -3.2 | 3.4 | 1.5 | 2 | J |
| 17 | 418 | 5.7 | 41 | J | 6.1 | -11 | 146 | -4.7 | 3.3 | -0.5 | 2 | J |
| 18 | 420 | 6.4 | 77 | J | 5.6 | 9 | 144 | -4.2 | 2.8 | 1.5 | 2 | J |
| 19 | 428 | 6.9 | 122 | J | 5.4 | 12 | 139 | -3.8 | 2.9 | 1.9 | 2 | J |
| 20 | 415 | 5.9 | 68 | J | 5.4 | 6 | 141 | -3.9 | 2.9 | 1.5 | 2 | J |
| 21 | 440 | 8.3 | 92 | J | 4.2 | 60 | 85 | 0.1 | 0.5 | 3.3 | 2 | J |
| 22 | 433 | 8.5 | 86 | J | 4.5 | 35 | 116 | -1.0 | 1.3 | 2.3 | 4 | J |
| 23 | 416 | 8.3 | 72 | J | 4.6 | 25 | 158 | -2.9 | 0.5 | 1.8 | 3 | J |
| 24 | 431 | 8.4 | 0 | C | 5.3 | -21 | 99 | -0.6 | 4.1 | 0.1 | 3 | C |

## JAN. 17, 1981 17

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 412 | 8.1 | 0 | C | 5.6 | -38 | 101 | -0.7 | 4.4 | -1.3 | 3 | C |
| 2 | 409 | 6.9 | 54 | J | 4.8 | -13 | 201 | -3.6 | -1.0 | -1.3 | 3 | J |
| 3 | 432 | 7.0 | 73 | J | 4.3 | -7 | 94 | -0.2 | 2.9 | 0.6 | 3 | J |
| 4 | 435 | 7.5 | 62 | J | 4.9 | 40 | 52 | 2.2 | 1.9 | 3.6 | 2 | J |
| 5 | 434 | 8.0 | 47 | J | 5.6 | 29 | 31 | 4.1 | 1.9 | 3.1 | 1 | J |
| 6 | 431 | 8.8 | 45 | J | 5.7 | 18 | 45 | 3.8 | 3.5 | 2.3 | 1 | J |
| 7 | 418 | 13.9 | 30 | J | 5.2 | 39 | 230 | -2.0 | -2.6 | 2.3 | 3 | J |
| 8 | 416 | 12.9 | 29 | J | 5.6 | 17 | 229 | -3.4 | -4.0 | 1.4 | 1 | J |
| 9 | 417 | 10.9 | 30 | J | 5.7 | 6 | 226 | -3.9 | -4.0 | 0.5 | 1 | J |
| 10 | 406 | 12.6 | 37 | J | 4.5 | -11 | 231 | -2.7 | -3.3 | -0.8 | 1 | J |
| 11 | 409 | 14.0 | 32 | J | 3.8 | -15 | 224 | -2.6 | -2.5 | -0.9 | 1 | J |
| 12 | 402 | 15.2 | 28 | J | 3.3 | -5 | 191 | -2.6 | -0.5 | -0.2 | 2 | J |
| 13 | 400 | 12.8 | 31 | J | 3.4 | -64 | 146 | -1.2 | 0.8 | -3.0 | 1 | J |
| 14 | 399 | 9.8 | 0 | C | 4.1 | -73 | 105 | -0.3 | 1.3 | -3.8 | 1 | C |
| 15 | 384 | 8.6 | 0 | C | 4.2 | -56 | 159 | -2.0 | 1.0 | -3.2 | 2 | C |
| 16 | 369 | 7.4 | 0 | C | 4.4 | -56 | 165 | -2.3 | 1.1 | -3.5 | 1 | C |
| 17 | 364 | 6.6 | 0 | C | 4.4 | -54 | 163 | -2.3 | 1.3 | -3.2 | 1 | C |
| 18 | 376 | 7.1 | 25 | J | 3.7 | -68 | 335 | 1.2 | 0.2 | -3.4 | 1 | J |
| 19 | 376 | 7.1 | 29 | J | 3.4 | -72 | 140 | -0.6 | 1.1 | -2.1 | 2 | J |
| 20 | 371 | 6.0 | 0 | C |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 364 | 6.5 | 40 | J | 3.0 | -36 | 154 | -2.0 | 1.5 | -1.1 | 1 | J |
| 23 | 364 | 6.5 | 36 | J | 3.4 | -40 | 172 | -2.4 | 1.1 | -1.7 | 1 | J |
| 24 | 368 | 6.1 | 25 | J | 3.4 | -40 | 128 | -1.5 | 2.6 | -1.1 | 1 | J |

## JAN. 18, 1981 18

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 355 | 6.0 | 0 | C | 3.2 | -50 | 123 | -1.0 | 2.3 | -1.4 | 1 | C |
| 2 | 369 | 12.1 | 16 | J | 2.2 | -57 | 158 | -1.0 | 0.9 | -1.3 | 1 | J |
| 3 | 364 | 14.7 | 15 | J | 1.2 | -39 | 231 | -0.5 | -0.4 | -0.9 | 0 | J |
| 4 | 358 | 9.7 | 22 | J | 1.5 | -54 | 167 | -0.7 | 0.4 | -0.9 | 1 | C |
| 5 | 354 | 8.7 | 34 | J | 2.7 | -32 | 156 | -2.0 | 1.2 | -1.2 | 1 | C |
| 6 | 355 | 9.6 | 29 | J | 1.8 | -20 | 148 | -1.1 | 0.8 | -0.4 | 1 | C |
| 7 | 350 | 12.3 | 20 | J | 0.9 | -25 | 156 | -0.3 | 0.2 | -0.1 | 1 | C |
| 8 | 346 | 12.5 | 22 | J | 2.0 | 27 | 173 | -1.8 | 0.2 | 0.9 | 0 | J |
| 9 | 344 | 13.5 | 26 | J | 2.3 | 13 | 181 | -2.1 | -0.0 | 0.5 | 1 | J |
| 10 | 342 | 12.6 | 22 | J | 2.9 | 17 | 180 | -2.8 | 0.0 | 0.8 | 1 | J |
| 11 | 341 | 10.0 | 21 | J | 3.7 | 25 | 193 | -3.2 | -0.7 | 1.5 | 1 | J |
| 12 | 339 | 10.6 | 17 | J | 3.7 | 34 | 192 | -2.9 | -0.6 | 2.0 | 1 | J |
| 13 | 338 | 9.9 | 19 | J | 3.7 | 40 | 204 | -2.5 | -1.2 | 2.3 | 1 | J |
| 14 | 328 | 8.8 | 14 | J | 4.1 | 29 | 285 | 0.8 | -3.2 | 1.6 | 2 | J |
| 15 | 338 | 12.7 | 16 | J | 4.7 | 33 | 277 | 0.5 | -3.9 | 2.1 | 1 | J |
| 16 | 333 | 9.4 | 12 | J | 5.0 | 11 | 272 | 0.2 | -4.7 | 0.3 | 2 | J |
| 17 | 318 | 7.5 | 0 | C | 5.1 | -4 | 307 | 2.9 | -3.7 | -1.0 | 2 | C |
| 18 | 316 | 7.5 | 0 | C | 4.3 | 4 | 297 | 1.8 | -3.4 | -0.6 | 2 | J |
| 19 | 313 | 7.5 | 0 | C | 4.5 | 26 | 284 | 0.9 | -3.9 | 0.7 | 2 | J |
| 20 | 309 | 8.0 | 0 | C | 4.6 | -2 | 358 | 4.5 | -0.1 | -0.2 | 1 | J |
| 21 | 309 | 8.1 | 0 | C | 5.1 | -3 | 26 | 4.3 | 2.1 | 0.6 | 1 | C |
| 22 | 305 | 8.0 | 0 | C | 5.2 | -17 | 29 | 4.2 | 2.7 | -0.4 | 1 | C |
| 23 | 297 | 7.0 | 0 | C | 4.9 | 20 | 353 | 4.1 | -1.1 | 1.2 | 2 | C |
| 24 | 298 | 7.5 | 0 | C | 4.9 | 35 | 347 | 3.8 | -1.9 | 2.1 | 1 | C |

## JAN. 19, 1981 19

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 290 | 7.4 | 0 | C | 5.8 | 43 | 332 | 3.7 | -3.4 | 2.8 | 1 | C |
| 2 | 288 | 7.3 | 0 | C | 6.2 | 42 | 317 | 3.3 | -4.4 | 2.7 | 1 | C |
| 3 | 285 | 7.5 | 0 | C | 6.1 | 26 | 311 | 3.5 | -4.7 | 1.1 | 1 | C |
| 4 | 292 | 7.9 | 0 | C | 5.8 | 4 | 314 | 3.9 | -4.0 | -0.8 | 1 | C |
| 5 | 294 | 8.5 | 0 | C | 5.5 | -7 | 318 | 4.0 | -3.4 | -1.5 | 1 | C |
| 6 | 293 | 8.4 | 0 | C | 5.8 | 3 | 289 | 1.5 | -4.5 | -0.5 | 3 | C |
| 7 | 298 | 7.2 | 0 | C | 6.1 | 16 | 272 | 0.2 | -5.9 | 1.0 | 1 | C |
| 8 | 303 | 8.0 | 0 | C | 5.5 | 17 | 273 | 0.3 | -5.3 | 1.3 | 1 | C |
| 9 | 304 | 9.1 | 0 | C | 5.8 | 28 | 279 | 0.8 | -5.1 | 2.6 | 1 | C |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 314 | 10.9 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 314 | 10.9 | 0 | C | 4.2 | -19 | 304 | 2.2 | -3.2 | -1.4 | 1 | C |
| 13 | 303 | 12.6 | 0 | C | 4.3 | -8 | 293 | 1.5 | -3.5 | -0.6 | 2 | C |
| 14 | 308 | 11.7 | 0 | C | 4.4 | -31 | 268 | -0.1 | -3.5 | -2.3 | 1 | C |
| 15 | 305 | 11.9 | 0 | C | 4.3 | -23 | 281 | 0.8 | -3.6 | -2.0 | 1 | C |
| 16 | 296 | 12.4 | 0 | C | 4.3 | -24 | 318 | 2.8 | -2.2 | -2.0 | 1 | C |
| 17 | 298 | 12.5 | 0 | C | 4.8 | -13 | 284 | 1.0 | -3.9 | -1.8 | 2 | C |
| 18 | 302 | 13.1 | 0 | C | 4.7 | 8 | 274 | 0.3 | -4.5 | -0.5 | 1 | C |
| 19 | 296 | 13.5 | 0 | C | 5.0 | 16 | 290 | 1.6 | -4.6 | -0.0 | 1 | C |
| 20 | 300 | 14.4 | 0 | C | 5.0 | 9 | 282 | 1.0 | -4.8 | -0.8 | 0 | C |
| 21 | 305 | 15.0 | 0 | C | 4.6 | 26 | 260 | -0.7 | -4.5 | 0.4 | 0 | C |
| 22 | 301 | 14.5 | 0 | C | 5.0 | 18 | 279 | 0.8 | -4.9 | -0.4 | 1 | C |
| 23 | 296 | 14.7 | 0 | C | 5.0 | -8 | 305 | 2.6 | -3.1 | -2.1 | 2 | C |
| 24 | 314 | 11.5 | 0 | C | 5.2 | -38 | 331 | 3.6 | -0.5 | -3.7 | 1 | C |

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## JAN. 20, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 315 | 10.5 | 0 | C | 5.6 | -5 | 310 | 3.3 | -3.5 | -2.0 | 2 | C |
| 2 | 306 | 10.3 | 0 | C | 5.8 | 2 | 308 | 2.9 | -3.5 | -1.3 | 3 | C |
| 3 | 304 | 10.9 | 0 | C | 5.5 | 43 | 257 | -0.9 | -4.8 | 2.1 | 1 | C |
| 4 | 300 | 11.1 | 0 | C | 5.8 | 24 | 245 | -2.2 | -5.1 | 0.8 | 1 | C |
| 5 | 302 | 11.1 | 0 | C | 5.9 | 34 | 233 | -2.9 | -4.5 | 2.3 | 1 | C |
| 6 | 303 | 10.9 | 0 | C | 5.7 | 25 | 299 | 1.9 | -3.6 | 1.2 | 3 | C |
| 7 | 300 | 10.8 | 0 | C | 5.7 | 33 | 289 | 1.4 | -4.4 | 2.4 | 2 | C |
| 8 | 294 | 11.1 | 0 | C | 5.6 | 7 | 286 | 1.4 | -4.8 | 0.3 | 2 | C |
| 9 | 296 | 11.5 | 0 | C | 5.6 | 13 | 292 | 1.6 | -4.1 | 0.9 | 3 | C |
| 10 | 293 | 12.5 | 0 | C | 5.1 | -28 | 287 | 1.2 | -4.0 | -2.2 | 2 | C |
| 11 | 296 | 13.9 | 0 | C | 5.7 | -45 | 269 | -0.1 | -4.0 | -4.0 | 0 | C |
| 12 | 296 | 13.9 | 0 | C | 6.0 | -3 | 262 | -0.8 | -5.1 | -0.3 | 3 | C |
| 13 | 297 | 13.5 | 0 | C | 6.1 | 32 | 258 | -1.1 | -5.1 | 3.1 | 0 | C |
| 14 | 300 | 13.8 | 0 | C | 6.2 | 41 | 267 | -0.2 | -4.4 | 3.3 | 2 | C |
| 15 | 302 | 14.7 | 0 | C | 5.3 | 33 | 252 | -1.2 | -3.9 | 2.1 | 2 | C |
| 16 | 297 | 14.8 | 0 | C | 5.9 | 16 | 273 | 0.3 | -5.5 | 0.7 | 2 | C |
| 17 | 296 | 14.1 | 0 | C | 6.1 | 26 | 253 | -1.5 | -5.5 | 1.5 | 1 | C |
| 18 | 289 | 13.4 | 0 | C | 6.2 | -19 | 299 | 2.3 | -3.6 | -2.6 | 4 | C |
| 19 | 281 | 12.4 | 0 | C | 6.3 | -42 | 327 | 3.9 | -1.1 | -4.7 | 1 | C |
| 20 | 287 | 12.4 | 0 | C | 6.1 | -43 | 316 | 3.1 | -1.4 | -4.8 | 1 | C |
| 21 | 287 | 12.5 | 0 | C | 6.5 | -12 | 289 | 1.9 | -4.5 | -3.1 | 3 | C |
| 22 | 280 | 11.5 | 0 | C | 5.5 | 2 | 310 | 3.5 | -3.9 | -1.5 | 1 | C |
| 23 | 283 | 11.7 | 0 | C | 5.4 | 10 | 312 | 3.5 | -4.0 | -0.8 | 1 | C |
| 24 | 283 | 12.5 | 0 | C | 5.3 | 16 | 325 | 4.1 | -3.3 | 0.1 | 0 | C |

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## JAN. 22, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 271 | 29.9 | 0 | C | 6.9 | 0 | 244 | -2.6 | -5.0 | -2.2 | 3 | C |
| 2 | 272 | 31.6 | 0 | C | 6.5 | 47 | 271 | 0.1 | -5.6 | 2.5 | 2 | C |
| 3 | 270 | 31.7 | 0 | C | 5.9 | 53 | 223 | -1.9 | -2.9 | 2.7 | 4 | C |
| 4 | 269 | 33.0 | 0 | C | 6.0 | 30 | 144 | -4.0 | 1.9 | 3.6 | 2 | C |
| 5 | 276 | 33.3 | 0 | C | 6.7 | 46 | 128 | -2.4 | 2.0 | 4.7 | 3 | C |
| 6 | 280 | 28.8 | 0 | C | 9.2 | 87 | 180 | -0.4 | -1.6 | 8.6 | 3 | C |
| 7 | 278 | 22.4 | 0 | C | 11.6 | 56 | 285 | 1.7 | -7.3 | 8.6 | 2 | C |
| 8 | 281 | 23.6 | 0 | C | 11.2 | 37 | 288 | 2.7 | -9.0 | 6.0 | 1 | C |
| 9 | 280 | 27.9 | 0 | C | 6.6 | 78 | 113 | -0.5 | 1.0 | 6.3 | 1 | C |
| 10 | 284 | 41.6 | 0 | C | 7.6 | 45 | 289 | 1.4 | -4.1 | 4.2 | 4 | C |
| 11 | 271 | 46.5 | 0 | C | 7.4 | -36 | 293 | 2.2 | -5.0 | -4.1 | 3 | C |
| 12 | 262 | 15.6 | 150 | L | 11.4 | -9 | 103 | -1.8 | 7.9 | -1.1 | 8 | C |
| 13 | 280 | 21.8 | 163 | L | 14.4 | 19 | 96 | -1.1 | 10.0 | 3.8 | 9 | C |
| 14 | 324 | 15.8 | 48 | J | 14.5 | -23 | 116 | -5.6 | 12.1 | -4.7 | 2 | C |
| 15 | 327 | 17.6 | 51 | J | 13.3 | -35 | 116 | -4.6 | 10.3 | -6.3 | 2 | C |
| 16 | 332 | 22.9 | 63 | J | 11.0 | 13 | 111 | -3.1 | 7.7 | 3.2 | 6 | C |
| 17 | 338 | 17.6 | 53 | J | 12.2 | -22 | 114 | -4.6 | 10.8 | -2.2 | 2 | C |
| 18 | 343 | 17.9 | 98 | J | 11.5 | -29 | 107 | -2.5 | 9.3 | -2.4 | 5 | C |
| 19 | 353 | 13.7 | 139 | J | 12.0 | -24 | 108 | -3.0 | 10.5 | -1.3 | 4 | C |
| 20 | 356 | 17.4 | 162 | J |  |  |  |  |  |  |  |  |
| 21 | 353 | 13.6 | 127 | J |  |  |  |  |  |  |  |  |
| 22 | 351 | 10.4 | 132 | J |  |  |  |  |  |  |  |  |
| 23 | 330 | 9.8 | 157 | J | 14.7 | -1 | 103 | -3.0 | 12.1 | 5.4 | 5 | C |
| 24 | 402 | 10.9 | 114 | J | 13.3 | 5 | 80 | 1.7 | 8.5 | 4.9 | 8 | C |

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## JAN. 24, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 10.0 | 0 | C | 7.7 | 15 | 139 | -4.0 | 2.5 | 2.8 | 5 | C |
| 2 | 395 | 8.4 | 0 | C | 7.2 | 15 | 82 | 0.9 | 5.4 | 4.3 | 1 | C |
| 3 | 406 | 7.2 | 104 | J | 7.6 | 18 | 112 | -2.3 | 4.6 | 3.9 | 4 | J |
| 4 | 407 | 6.6 | 88 | J | 8.0 | 2 | 104 | -1.8 | 6.6 | 2.5 | 3 | J |
| 5 | 400 | 7.4 | 108 | J | 7.6 | -2 | 113 | -2.8 | 6.6 | 1.5 | 2 | J |
| 6 | 399 | 9.1 | 138 | J | 7.5 | -28 | 115 | -2.6 | 6.1 | -2.1 | 3 | J |
| 7 | 381 | 7.5 | 75 | J | 8.1 | -16 | 151 | -6.0 | 3.6 | -1.5 | 4 | J |
| 8 | 400 | 8.2 | 78 | J | 7.2 | -39 | 281 | 0.7 | -3.4 | -3.4 | 5 | J |
| 9 | 403 | 7.7 | 105 | J | 6.9 | -65 | 237 | -0.5 | -0.6 | -1.9 | 7 | J |
| 10 | 412 | 7.8 | 100 | J | 7.7 | -32 | 84 | 0.6 | 5.8 | -3.3 | 4 | J |
| 11 | 398 | 6.9 | 79 | J | 9.7 | -1 | 100 | -1.6 | 9.4 | 0.1 | 2 | J |
| 12 | 398 | 7.0 | 89 | J | 8.7 | 8 | 98 | -1.1 | 7.8 | 1.4 | 4 | J |
| 13 | 408 | 6.6 | 112 | J | 8.3 | 3 | 105 | -1.8 | 6.7 | 0.7 | 4 | J |
| 14 | 395 | 6.4 | 64 | J | 8.1 | -7 | 101 | -1.4 | 7.1 | -0.3 | 3 | J |
| 15 | 389 | 6.8 | 73 | J | 7.7 | 5 | 113 | -2.9 | 6.7 | 1.5 | 2 | J |
| 16 | 398 | 6.5 | 58 | J | 7.7 | -18 | 108 | -2.1 | 6.8 | -1.1 | 3 | J |
| 17 | 401 | 6.5 | 54 | J | 7.2 | -48 | 98 | -0.4 | 3.2 | -2.3 | 6 | J |
| 18 | 390 | 6.4 | 47 | J | 7.6 | -11 | 112 | -2.6 | 6.6 | 0.5 | 3 | J |
| 19 | 411 | 6.3 | 36 | J | 7.4 | 6 | 105 | -1.7 | 5.7 | 2.6 | 4 | J |
| 20 | 379 | 6.7 | 0 | C | 6.7 | -18 | 186 | -5.6 | 0.1 | -1.9 | 3 | J |
| 21 | 407 | 6.7 | 55 | J | 6.0 | -13 | 263 | -0.5 | -3.6 | -2.7 | 4 | J |
| 22 | 402 | 6.4 | 44 | J | 7.0 | 23 | 95 | -0.5 | 4.2 | 4.7 | 3 | J |
| 23 | 384 | 6.2 | 45 | J | 6.9 | 35 | 113 | -2.0 | 2.7 | 5.3 | 3 | J |
| 24 | 377 | 6.4 | 38 | J | 7.2 | 2 | 125 | -3.4 | 4.3 | 2.3 | 4 | J |

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## JAN. 26, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 383 | 8.3 | 27 | J | 6.1 | 25 | 86 | 0.4 | 3.8 | 4.6 | 1 | J |
| 2 | 364 | 8.3 | 0 | C | 6.2 | 29 | 85 | 0.5 | 3.7 | 4.9 | 1 | C |
| 3 | 365 | 8.5 | 0 | C | 5.8 | 26 | 84 | 0.5 | 3.7 | 4.0 | 2 | C |
| 4 | 380 | 9.0 | 20 | J | 5.7 | -2 | 84 | 0.5 | 4.7 | 1.4 | 2 | C |
| 5 | 355 | 8.4 | 0 | C | 5.7 | 19 | 99 | -0.7 | 4.1 | 2.8 | 2 | C |
| 6 | 352 | 8.9 | 0 | C | 5.1 | -22 | 111 | -1.1 | 3.1 | -0.6 | 4 | C |
| 7 | 352 | 10.2 | 50 | J | 5.3 | -25 | 188 | -4.6 | -0.3 | -2.2 | 1 | C |
| 8 | 347 | 9.4 | 49 | J | 5.3 | -26 | 166 | -4.4 | 1.3 | -2.1 | 1 | C |
| 9 | 341 | 10.4 | 56 | J | 6.8 | -50 | 160 | -4.1 | 1.9 | -5.0 | 1 | C |
| 10 | 347 | 12.3 | 71 | J | 6.6 | -30 | 159 | -4.9 | 2.0 | -3.0 | 2 | J |
| 11 | 348 | 14.3 | 104 | J | 7.0 | -18 | 157 | -6.0 | 2.7 | -2.0 | 1 | J |
| 12 | 347 | 14.2 | 109 | J | 7.4 | -39 | 170 | -5.6 | 1.2 | -4.5 | 1 | J |
| 13 | 357 | 16.1 | 63 | J | 6.5 | -12 | 162 | -4.5 | 1.5 | -0.9 | 4 | J |
| 14 | 346 | 14.8 | 78 | J | 6.5 | -12 | 154 | -5.4 | 2.7 | -1.0 | 2 | J |
| 15 | 340 | 13.5 | 30 | J | 6.9 | -1 | 166 | -6.6 | 1.6 | 0.1 | 1 | J |
| 16 | 340 | 13.7 | 34 | J | 6.3 | 12 | 168 | -5.7 | 1.0 | 1.4 | 1 | J |
| 17 | 342 | 16.2 | 51 | J | 6.6 | 19 | 171 | -5.8 | 0.4 | 2.2 | 2 | J |
| 18 | 345 | 20.6 | 41 | J | 6.2 | 44 | 167 | -3.9 | -0.2 | 4.0 | 3 | J |
| 19 | 358 | 29.9 | 36 | J | 5.9 | 68 | 193 | -1.5 | -1.6 | 3.6 | 4 | J |
| 20 | 360 | 20.1 | 56 | J | 7.6 | 8 | 307 | 4.0 | -5.3 | -1.1 | 3 | J |
| 21 | 370 | 4.8 | 41 | J | 9.5 | 47 | 289 | 2.1 | -8.4 | 3.8 | 1 | J |
| 22 | 367 | 6.2 | 80 | J | 8.6 | 36 | 293 | 2.6 | -7.8 | 1.7 | 2 | J |
| 23 | 384 | 5.1 | 83 | J | 8.7 | 36 | 296 | 3.0 | -7.9 | 1.7 | 1 | J |
| 24 | 384 | 5.3 | 97 | J | 8.0 | -19 | 315 | 4.3 | -2.9 | -3.8 | 5 | J |

21

## JAN. 21, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 276 | 12.2 | 0 | C | 5.6 | 6 | 311 | 3.5 | -3.9 | -1.1 | 1 | C |
| 2 | 275 | 11.6 | 0 | C | 5.7 | -2 | 304 | 3.2 | -4.3 | -2.0 | 0 | C |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 269 | 11.1 | 0 | C |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 263 | 17.3 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 263 | 17.3 | 0 | C | 4.3 | -17 | 297 | 1.9 | -3.6 | -1.5 | 0 | C |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 262 | 19.1 | 0 | C | 3.1 | -29 | 297 | 1.2 | -2.3 | -1.5 | 1 | C |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 262 | 23.2 | 0 | C | 1.8 | -22 | 276 | 0.2 | -1.4 | -0.6 | 1 | C |
| 13 | 255 | 24.7 | 0 | C | 1.1 | -14 | 248 | -0.3 | -0.8 | -0.3 | 1 | C |
| 14 | 256 | 25.8 | 0 | C | 1.0 | -8 | 276 | 0.1 | -0.9 | -0.2 | 0 | C |
| 15 | 251 | 26.7 | 0 | C | 2.1 | 5 | 222 | -1.5 | -1.3 | 0.0 | 1 | C |
| 16 | 254 | 26.0 | 0 | C | 2.2 | -13 | 229 | -1.3 | -1.4 | -0.7 | 1 | C |
| 17 | 256 | 29.2 | 0 | C | 1.3 | -1 | 264 | -0.0 | -0.3 | -0.1 | 1 | C |
| 18 | 255 | 29.3 | 0 | C | 2.6 | 39 | 176 | -1.5 | -0.2 | 1.2 | 2 | C |
| 19 | 256 | 30.0 | 0 | C | 2.9 | 12 | 272 | 0.1 | -1.7 | -0.2 | 2 | C |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 261 | 25.7 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 264 | 33.0 | 0 | C | 3.1 | 9 | 286 | 0.7 | -2.5 | -0.6 | 1 | C |
| 23 | 265 | 28.6 | 0 | C | 4.7 | -5 | 302 | 2.3 | -3.1 | -1.9 | 2 | C |
| 24 | 269 | 30.4 | 0 | C | 5.2 | -30 | 273 | 0.2 | -2.4 | -3.4 | 3 | C |

23

## JAN. 23, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 388 | 10.5 | 120 | J | 11.6 | 18 | 84 | 1.0 | 7.6 | 7.0 | 5 | J |
| 2 | 360 | 12.1 | 0 | C | 11.9 | 16 | 95 | -1.0 | 9.0 | 7.4 | 1 | C |
| 3 | 333 | 10.6 | 90 | J | 9.9 | 5 | 132 | -6.3 | 6.2 | 3.2 | 3 | J |
| 4 | 353 | 10.5 | 142 | J | 10.3 | 7 | 125 | -5.4 | 7.0 | 3.5 | 4 | J |
| 5 | 358 | 9.3 | 116 | J | 10.4 | 36 | 107 | -2.4 | 6.2 | 7.9 | 1 | J |
| 6 | 361 | 7.3 | 52 | J | 10.8 | 32 | 115 | -3.8 | 6.9 | 7.1 | 2 | J |
| 7 | 347 | 5.9 | 29 | J | 11.0 | 20 | 125 | -5.7 | 7.5 | 4.7 | 3 | J |
| 8 | 352 | 6.5 | 45 | J | 10.0 | 8 | 121 | -4.9 | 8.1 | 2.1 | 2 | J |
| 9 | 397 | 7.6 | 53 | J | 9.4 | 2 | 89 | 0.2 | 8.9 | 0.8 | 3 | J |
| 10 | 391 | 7.2 | 60 | J | 9.8 | -4 | 99 | -1.4 | 9.0 | -0.4 | 3 | J |
| 11 | 378 | 8.6 | 0 | C | 9.3 | -19 | 68 | 3.1 | 7.5 | -2.6 | 4 | C |
| 12 | 367 | 8.6 | 0 | C | 10.6 | 4 | 98 | -1.4 | 9.9 | 0.9 | 3 | C |
| 13 | 384 | 11.1 | 74 | J | 11.1 | -65 | 134 | -3.1 | 3.7 | -9.4 | 3 | J |
| 14 | 381 | 11.6 | 73 | J | 9.6 | -45 | 224 | -4.2 | -3.6 | -6.1 | 5 | J |
| 15 | 379 | 11.6 | 85 | J | 8.7 | -56 | 213 | -2.5 | -1.1 | -4.6 | 7 | J |
| 16 | 379 | 10.0 | 49 | J | 11.2 | 6 | 93 | -0.6 | 10.6 | 2.9 | 2 | J |
| 17 | 379 | 9.3 | 72 | J | 11.0 | 2 | 101 | -2.0 | 10.1 | 2.6 | 3 | J |
| 18 | 392 | 8.5 | 86 | J | 10.7 | -4 | 95 | -0.9 | 10.0 | 2.0 | 3 | J |
| 19 | 368 | 8.4 | 110 | J | 10.4 | -7 | 116 | -4.3 | 8.9 | 1.7 | 2 | J |
| 20 | 383 | 8.2 | 114 | J | 10.1 | -14 | 102 | -1.9 | 9.3 | 1.1 | 3 | J |
| 21 | 385 | 7.8 | 96 | J | 10.0 | -16 | 109 | -3.0 | 9.1 | 1.0 | 3 | J |
| 22 | 396 | 8.0 | 105 | J | 9.5 | -17 | 104 | -2.1 | 8.6 | 1.1 | 3 | J |
| 23 | 388 | 9.9 | 158 | J | 8.4 | -21 | 136 | -4.0 | 4.4 | -0.3 | 6 | J |
| 24 | 379 | 8.4 | 109 | J | 8.0 | 1 | 129 | -4.5 | 5.0 | 2.5 | 3 | J |

25

## JAN. 25, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 391 | 6.6 | 45 | J | 6.7 | -46 | 129 | -2.8 | 5.0 | -2.6 | 2 | J |
| 2 | 373 | 6.1 | 36 | J | 6.6 | 21 | 115 | -2.1 | 3.3 | 3.5 | 4 | J |
| 3 | 384 | 6.1 | 32 | J | 5.8 | 32 | 106 | -1.3 | 3.1 | 4.3 | 3 | J |
| 4 | 373 | 5.8 | 39 | J | 6.0 | 1 | 122 | -2.8 | 4.2 | 1.5 | 3 | J |
| 5 | 384 | 6.7 | 0 | C | 6.2 | -4 | 147 | -3.8 | 2.5 | 0.3 | 4 | C |
| 6 | 384 | 6.5 | 48 | J | 5.2 | -32 | 171 | -3.7 | 1.1 | -2.2 | 3 | J |
| 7 | 383 | 6.1 | 44 | J | 5.9 | 40 | 137 | -3.0 | 2.3 | 3.9 | 2 | J |
| 8 | 390 | 5.9 | 48 | J | 5.9 | 56 | 137 | -2.2 | 1.6 | 4.7 | 2 | J |
| 9 | 377 | 6.1 | 32 | J | 5.8 | 17 | 135 | -3.6 | 3.5 | 1.8 | 2 | J |
| 10 | 387 | 6.5 | 44 | J | 5.8 | 58 | 126 | -1.5 | 1.8 | 4.1 | 3 | J |
| 11 | 376 | 5.8 | 34 | J | 5.9 | 33 | 142 | -3.5 | 2.6 | 3.0 | 2 | J |
| 12 | 367 | 5.8 | 30 | J | 5.7 | 5 | 151 | -4.8 | 2.6 | 0.6 | 1 | J |
| 13 | 371 | 6.4 | 27 | J | 6.0 | -17 | 177 | -5.3 | 0.4 | -1.6 | 2 | J |
| 14 | 364 | 6.0 | 33 | J | 5.6 | -40 | 156 | -3.1 | 1.7 | -2.8 | 3 | J |
| 15 | 374 | 6.0 | 33 | J | 5.5 | -63 | 147 | -1.8 | 1.7 | -4.1 | 2 | J |
| 16 | 333 | 5.7 | 32 | J | 5.4 | -45 | 153 | -2.8 | 2.0 | -2.9 | 3 | J |
| 17 | 333 | 5.8 | 29 | J | 5.4 | 40 | 122 | -1.9 | 2.3 | 3.7 | 2 | J |
| 18 | 355 | 5.0 | 32 | J | 5.4 | -21 | 165 | -4.7 | 1.7 | -1.4 | 1 | J |
| 19 | 375 | 5.7 | 24 | J | 5.7 | -36 | 155 | -4.1 | 2.9 | -2.5 | 1 | J |
| 20 | 371 | 6.6 | 23 | J | 5.7 | -29 | 153 | -4.1 | 2.9 | -1.6 | 2 | J |
| 21 | 373 | 6.9 | 23 | J | 5.4 | -41 | 165 | -3.7 | 2.3 | -2.7 | 2 | J |
| 22 | 382 | 8.1 | 24 | J | 5.5 | -23 | 106 | -1.2 | 4.6 | 0.1 | 3 | J |
| 23 | 372 | 9.2 | 22 | J | 5.7 | -28 | 112 | -1.6 | 4.4 | -0.3 | 3 | J |
| 24 | 375 | 8.8 | 23 | J | 6.1 | 18 | 109 | -1.8 | 3.8 | 3.9 | 2 | J |

27

## JAN. 27, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 393 | 4.3 | 105 | J | 8.0 | -46 | 332 | 4.7 | 0.2 | -6.1 | 2 | J |
| 2 | 385 | 4.6 | 148 | J | 8.2 | -15 | 334 | 6.8 | -2.2 | -3.2 | 3 | J |
| 3 | 392 | 3.9 | 83 | J | 8.7 | 12 | 330 | 7.2 | -4.5 | 0.1 | 2 | J |
| 4 | 389 | 3.7 | 113 | J | 8.5 | 20 | 329 | 6.8 | -4.8 | 1.4 | 1 | J |
| 5 | 410 | 3.0 | 81 | J | 8.7 | 17 | 318 | 6.0 | -5.9 | 0.9 | 2 | J |
| 6 | 425 | 3.5 | 0 | C | 8.6 | 8 | 325 | 7.0 | -5.0 | 0.1 | 0 | J |
| 7 | 433 | 3.3 | 0 | C | 7.8 | 31 | 292 | 2.2 | -6.0 | 2.6 | 3 | C |
| 8 | 444 | 3.5 | 0 | C | 8.4 | -20 | 333 | 6.9 | -3.2 | -3.1 | 1 | C |
| 9 | 410 | 2.9 | 53 | J | 8.0 | -16 | 293 | 2.2 | -5.2 | -2.1 | 5 | J |
| 10 | 424 | 3.3 | 48 | J | 7.7 | -18 | 274 | 0.5 | -6.9 | -2.7 | 2 | J |
| 11 | 395 | 3.8 | 42 | J | 7.6 | -50 | 304 | 2.4 | -3.3 | -5.3 | 4 | J |
| 12 | 386 | 4.2 | 51 | J | 7.6 | -52 | 305 | 2.7 | -3.5 | -6.2 | 1 | J |
| 13 | 383 | 2.9 | 54 | J | 7.8 | -25 | 312 | 4.6 | -4.9 | -3.6 | 1 | J |
| 14 | 383 | 2.8 | 43 | J | 7.6 | -10 | 311 | 4.8 | -5.3 | -1.8 | 2 | J |
| 15 | 370 | 6.7 | 33 | J | 7.0 | 37 | 308 | 2.9 | -4.3 | 3.0 | 3 | J |
| 16 | 351 | 6.3 | 38 | J | 6.9 | 25 | 313 | 4.1 | -4.8 | 1.9 | 2 | J |
| 17 | 356 | 6.6 | 40 | J | 6.7 | 13 | 305 | 3.6 | -5.3 | 0.2 | 2 | J |
| 18 | 358 | 7.2 | 51 | J | 6.5 | 37 | 322 | 3.8 | -3.9 | 2.6 | 2 | J |
| 19 | 362 | 6.8 | 39 | J | 6.8 | 23 | 306 | 3.5 | -5.4 | 0.8 | 2 | J |
| 20 | 366 | 6.2 | 37 | J | 6.7 | 19 | 303 | 3.1 | -5.2 | 0.0 | 3 | J |
| 21 | 354 | 6.2 | 58 | J | 6.7 | 21 | 312 | 4.0 | -5.0 | 0.3 | 2 | J |
| 22 | 362 | 6.7 | 0 | C | 6.6 | -14 | 306 | 3.5 | -3.7 | -3.5 | 2 | C |
| 23 | 339 | 5.4 | 19 | J | 7.2 | -49 | 333 | 3.9 | 0.5 | -5.3 | 3 | J |
| 24 | 356 | 6.7 | 78 | J | 7.0 | -8 | 317 | 4.6 | -3.5 | -2.8 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 339 | 5.9 | 45 | J | 6.6 | -21 | 341 | 4.9 | -0.6 | -2.5 | 4 | J |
| 2 | 377 | 6.7 | 50 | J | 7.0 | 13 | 303 | 3.4 | -5.4 | -0.9 | 3 | J |
| 3 | 368 | 7.4 | 80 | J | 6.7 | -37 | 332 | 4.2 | -0.7 | -4.2 | 3 | J |
| 4 | 380 | 7.1 | 49 | J | 6.6 | -56 | 327 | 2.6 | -0.1 | -4.9 | 3 | J |
| 5 | 382 | 7.0 | 51 | J | 6.8 | -48 | 295 | 1.9 | -2.5 | -5.9 | 1 | J |
| 6 | 373 | 6.4 | 46 | J | 7.2 | -38 | 313 | 3.7 | -2.9 | -5.0 | 2 | J |
| 7 | 367 | 5.9 | 30 | J | 7.9 | -22 | 311 | 4.7 | -4.9 | -3.8 | 1 | J |
| 8 | 361 | 5.7 | 40 | J | 8.1 | -26 | 312 | 4.3 | -4.4 | -3.7 | 4 | J |
| 9 | 363 | 5.7 | 41 | J | 8.1 | -15 | 330 | 6.7 | -3.7 | -2.4 | 1 | J |
| 10 | 342 | 5.7 | 25 | J | 8.0 | -4 | 341 | 7.2 | -2.4 | -0.7 | 2 | J |
| 11 | 369 | 6.5 | 45 | J | 7.4 | 7 | 314 | 4.3 | -4.5 | 0.5 | 4 | J |
| 12 | 385 | 6.9 | 35 | J | 8.2 | -22 | 288 | 2.3 | -6.9 | -3.4 | 2 | J |
| 13 | 389 | 6.9 | 50 | J | 8.2 | -33 | 301 | 3.3 | -5.2 | -4.6 | 3 | J |
| 14 | 400 | 7.5 | 55 | J | 7.9 | -23 | 292 | 2.4 | -5.7 | -3.4 | 3 | J |
| 15 | 388 | 7.2 | 53 | J | 7.8 | -19 | 309 | 3.6 | -4.1 | -2.6 | 5 | J |
| 16 | | | | | | | | | | | | |
| 17 | 397 | 9.1 | 0 | C | 9.2 | 4 | 289 | 2.9 | -8.4 | -1.5 | 1 | C |
| 18 | 406 | 9.3 | 66 | J | 9.0 | 35 | 300 | 2.7 | -5.6 | 2.2 | 6 | J |
| 19 | 410 | 10.2 | 81 | J | 8.5 | 30 | 308 | 2.8 | -4.3 | 1.3 | 7 | J |
| 20 | 412 | 10.4 | 77 | J | 8.6 | 7 | 283 | 1.5 | -6.3 | -1.7 | 5 | J |
| 21 | 401 | 10.3 | 81 | J | 8.5 | -20 | 297 | 3.2 | -4.7 | -5.0 | 4 | J |
| 22 | 405 | 9.7 | 98 | J | 6.9 | -5 | 302 | 3.1 | -4.2 | -2.6 | 4 | J |
| 23 | 407 | 9.7 | 90 | J | 7.2 | -59 | 329 | 2.1 | 0.7 | -4.2 | 5 | J |
| 24 | 407 | 8.7 | 73 | J | 6.8 | -17 | 294 | 1.9 | -3.2 | -3.3 | 4 | J |

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30

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 377 | 6.5 | 35 | J | 6.7 | -15 | 317 | 4.0 | -2.7 | -3.0 | 3 | J |
| 2 | 370 | 6.2 | 31 | J | 6.6 | -12 | 329 | 5.3 | -2.3 | -2.5 | 2 | J |
| 3 | 379 | 6.6 | 26 | J | 6.6 | 4 | 315 | 4.2 | -4.0 | -1.3 | 3 | J |
| 4 | 378 | 6.2 | 26 | J | 6.6 | 21 | 297 | 2.7 | -5.7 | 0.3 | 2 | J |
| 5 | 377 | 6.5 | 28 | J | 6.3 | 19 | 288 | 1.8 | -5.9 | 0.3 | 1 | J |
| 6 | 388 | 5.9 | 27 | J | 6.1 | 5 | 298 | 2.7 | -5.0 | -0.7 | 2 | J |
| 7 | 375 | 6.1 | 30 | J | 6.3 | 14 | 297 | 2.6 | -5.3 | 0.5 | 2 | J |
| 8 | 372 | 6.0 | 27 | J | 6.4 | 16 | 302 | 3.1 | -5.2 | 1.0 | 2 | J |
| 9 | 377 | 6.4 | 32 | J | 6.7 | 10 | 308 | 3.7 | -4.8 | 0.6 | 3 | J |
| 10 | 377 | 6.6 | 32 | J | 6.8 | 24 | 314 | 3.7 | -4.0 | 2.1 | 3 | J |
| 11 | 348 | 5.0 | 61 | L | 6.8 | 22 | 308 | 3.1 | -4.1 | 1.8 | 4 | J |
| 12 | 378 | 6.5 | 25 | J | 6.8 | 18 | 317 | 4.4 | -4.3 | 1.7 | 2 | J |
| 13 | 373 | 7.5 | 0 | C | 6.6 | -23 | 325 | 4.7 | -3.1 | -2.7 | 2 | J |
| 14 | 370 | 7.5 | 0 | C | 6.7 | -3 | 312 | 4.1 | -4.4 | -0.8 | 2 | C |
| 15 | 365 | 7.8 | 0 | C | 6.6 | -17 | 351 | 4.4 | -0.5 | -1.4 | 4 | C |
| 16 | 360 | 8.0 | 0 | C | 7.0 | -7 | 334 | 5.2 | -2.3 | -1.2 | 3 | C |
| 17 | 360 | 8.0 | 0 | C | 7.1 | -1 | 330 | 5.1 | -2.8 | -0.9 | 3 | C |
| 18 | 373 | 8.0 | 30 | J | 7.0 | 1 | 309 | 4.0 | -4.8 | -1.4 | 3 | J |
| 19 | 371 | 7.9 | 32 | J | 6.8 | 5 | 316 | 4.4 | -4.1 | -1.0 | 3 | J |
| 20 | 377 | 8.5 | 32 | J | 7.3 | 48 | 318 | 3.2 | -4.6 | 3.3 | 3 | J |
| 21 | 389 | 8.7 | 31 | J | 7.6 | 61 | 307 | 2.0 | -4.9 | 4.3 | 3 | J |
| 22 | 376 | 8.5 | 28 | J | 7.7 | 3 | 309 | 4.1 | -4.7 | -2.0 | 4 | J |
| 23 | 374 | 9.2 | 35 | J | 7.8 | 21 | 324 | 5.4 | -4.7 | 0.4 | 3 | J |
| 24 | 363 | 9.6 | 36 | J | 8.3 | 2 | 346 | 7.9 | -1.9 | -0.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 479 | 3.7 | 0 | C | 8.3 | 16 | 360 | 7.5 | -1.0 | 1.9 | 2 | C |
| 2 | | | | | 8.3 | 5 | 351 | 7.7 | -1.3 | 0.0 | 2 | C |
| 3 | 471 | 4.5 | 0 | C | 9.3 | -1 | 328 | 7.8 | -4.4 | -2.2 | 1 | C |
| 4 | | | | | | | | | | | | |
| 5 | 478 | 4.5 | 0 | C | 10.4 | -28 | 341 | 8.1 | -1.2 | -5.1 | 4 | C |
| 6 | 468 | 4.6 | 0 | C | 10.4 | -15 | 319 | 7.0 | -5.4 | -3.9 | 3 | C |
| 7 | 464 | 4.8 | 0 | C | 8.7 | 44 | 323 | 4.6 | -4.4 | 4.9 | 1 | C |
| 8 | 457 | 6.4 | 0 | C | 9.8 | 27 | 341 | 6.4 | -2.7 | 3.1 | 6 | C |
| 9 | 484 | 5.6 | 0 | C | 10.7 | -17 | 318 | 6.6 | -5.5 | -3.2 | 5 | C |
| 10 | 491 | 5.9 | 0 | C | 10.3 | 17 | 336 | 6.5 | -3.0 | 2.0 | 7 | C |
| 11 | | | | | | | | | | | | |
| 12 | 491 | 6.5 | 0 | C | 10.5 | 5 | 316 | 7.0 | -6.9 | 0.4 | 3 | C |
| 13 | 484 | 7.2 | 0 | C | 10.1 | -15 | 321 | 6.7 | -5.1 | -2.9 | 4 | C |
| 14 | | | | | | | | | | | | |
| 15 | 484 | 9.5 | 0 | C | 9.5 | 79 | 56 | 1.0 | -0.0 | 9.3 | 0 | C |
| 16 | | | | | | | | | | | | |
| 17 | 432 | 11.8 | 0 | C | 11.1 | 23 | 317 | 6.4 | -6.7 | 1.9 | 4 | C |
| 18 | 432 | 11.8 | 0 | C | 11.8 | 43 | 280 | 1.3 | -9.1 | 4.2 | 5 | C |
| 19 | 451 | 13.0 | 0 | C | 11.3 | 30 | 291 | 2.9 | -8.9 | 1.6 | 6 | C |
| 20 | 442 | 11.8 | 0 | C | 10.9 | 23 | 306 | 5.6 | -8.7 | 0.6 | 3 | C |
| 21 | 470 | 11.9 | 0 | C | 11.0 | -15 | 304 | 5.5 | -6.1 | -5.9 | 3 | C |
| 22 | 467 | 12.2 | 0 | C | 11.5 | 5 | 303 | 5.5 | -8.0 | -3.1 | 4 | C |
| 23 | 471 | 12.5 | 0 | C | 11.6 | 0 | 318 | 7.2 | -5.6 | -3.0 | 6 | C |
| 24 | 465 | 11.1 | 0 | C | 11.5 | 13 | 323 | 7.6 | -6.2 | -0.8 | 5 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 585 | 3.2 | 0 | C | 5.5 | 8 | 327 | 4.4 | -2.9 | -0.7 | 1 | C |
| 2 | 567 | 3.2 | 0 | C | 5.5 | 19 | 326 | 4.0 | -3.2 | 0.3 | 2 | C |
| 3 | 555 | 3.3 | 0 | C | 5.5 | 26 | 333 | 4.1 | -2.8 | 1.2 | 2 | C |
| 4 | 569 | 3.3 | 0 | C | 5.4 | 51 | 318 | 2.4 | -3.4 | 2.9 | 1 | C |
| 5 | 567 | 3.5 | 0 | C | 5.2 | 16 | 20 | 4.4 | 1.1 | 1.7 | 2 | C |
| 6 | 557 | 3.7 | 0 | C | 4.9 | 15 | 20 | 3.7 | 1.1 | 1.4 | 2 | C |
| 7 | 478 | 5.1 | 0 | C | 4.5 | -7 | 336 | 3.6 | -1.5 | -0.8 | 2 | C |
| 8 | 490 | 4.9 | 0 | C | 4.6 | 23 | 331 | 3.0 | -1.8 | 1.2 | 2 | C |
| 9 | 487 | 5.0 | 0 | C | 4.5 | -36 | 15 | 3.4 | 1.2 | -2.4 | 1 | C |
| 10 | 506 | 5.1 | 0 | C | 4.6 | -61 | 22 | 1.6 | 1.0 | -3.1 | 2 | C |
| 11 | | | | | | | | | | | | |
| 12 | 462 | 4.8 | 0 | C | 4.5 | -38 | 14 | 3.3 | 1.1 | -2.5 | 1 | C |
| 13 | 453 | 4.9 | 0 | C | 4.4 | -30 | 343 | 3.2 | -0.8 | -2.1 | 2 | C |
| 14 | | | | | | | | | | | | |
| 15 | 443 | 5.1 | 0 | C | 3.7 | -34 | 338 | 2.6 | -0.7 | -2.1 | 1 | C |
| 16 | 453 | 5.3 | 0 | C | 3.9 | 24 | 307 | 1.8 | -2.7 | 0.8 | 2 | C |
| 17 | 471 | 5.8 | 0 | C | 4.2 | -12 | 285 | 0.7 | -2.4 | -1.3 | 3 | C |
| 18 | 464 | 5.7 | 0 | C | 3.9 | 19 | 282 | 0.6 | -3.0 | 0.0 | 2 | C |
| 19 | 465 | 5.5 | 0 | C | 4.1 | 12 | 257 | -0.7 | -3.1 | -0.5 | 2 | C |
| 20 | | | | | | | | | | | | |
| 21 | 456 | 5.2 | 0 | C | 4.2 | 32 | 235 | -2.0 | -3.5 | 0.7 | 1 | C |
| 22 | 451 | 5.4 | 0 | C | 3.0 | 11 | 223 | -1.3 | -1.2 | -0.3 | 2 | C |
| 23 | 425 | 5.2 | 0 | C | 2.8 | 22 | 313 | 1.6 | -1.9 | -0.0 | 1 | C |
| 24 | 421 | 5.2 | 0 | C | 3.1 | -11 | 341 | 2.0 | -0.4 | -0.7 | 2 | C |

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29

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 401 | 9.1 | 96 | J | 7.5 | -15 | 317 | 4.7 | -3.1 | -3.5 | 4 | J |
| 409 | 9.0 | 90 | J | 7.1 | 10 | 294 | 2.4 | -5.4 | -1.4 | 3 | J |
| 399 | 8.9 | 76 | J | 7.2 | 1 | 305 | 3.6 | -4.7 | -1.9 | 4 | J |
| 383 | 9.5 | 71 | J | 7.0 | -18 | 348 | 5.9 | -0.5 | -2.3 | 3 | J |
| 385 | 10.0 | 67 | J | 6.5 | 8 | 342 | 5.4 | -1.9 | 0.3 | 3 | J |
| 417 | 9.9 | 49 | J | 6.6 | 72 | 272 | 0.1 | -3.0 | 5.0 | 3 | J |
| 417 | 12.1 | 65 | J | 7.5 | -56 | 332 | 2.8 | -0.6 | -4.8 | 5 | J |
| 442 | 22.6 | 184 | J | 12.6 | -1 | 305 | 5.3 | -7.5 | -1.1 | 9 | J |
| 418 | 16.8 | 88 | J | 12.2 | -17 | 313 | 7.0 | -7.2 | -3.8 | 6 | J |
| 396 | 14.4 | 59 | J | 12.2 | -5 | 340 | 10.4 | -3.7 | -1.2 | 5 | J |
| 416 | 13.9 | 71 | J | 11.5 | 5 | 311 | 6.7 | -7.8 | 0.4 | 5 | J |
| 426 | 15.8 | 0 | C | 11.1 | 10 | 297 | 4.7 | -9.3 | 1.2 | 2 | C |
| 417 | 12.4 | 71 | J | 10.1 | 14 | 314 | 6.6 | -7.0 | 1.8 | 2 | J |
| 431 | 13.2 | 73 | J | 10.0 | -1 | 295 | 4.0 | -8.5 | -1.1 | 3 | J |
| 426 | 11.9 | 68 | J | 9.6 | -16 | 294 | 3.4 | -7.1 | -3.5 | 4 | J |
| 424 | 11.2 | 70 | J | 9.4 | -27 | 291 | 2.9 | -6.7 | -5.6 | 2 | J |
| 399 | 12.2 | 0 | C | 8.9 | 15 | 325 | 6.6 | -4.9 | 0.9 | 2 | C |
| 395 | 11.0 | 0 | C | 8.5 | 26 | 322 | 5.2 | -4.8 | 1.9 | 4 | C |
| 400 | 8.4 | 50 | J | 7.7 | 5 | 308 | 4.0 | -5.0 | -1.2 | 4 | J |
| 401 | 8.3 | 53 | J | 7.8 | 24 | 301 | 3.4 | -6.3 | 0.5 | 3 | J |
| 395 | 7.9 | 56 | J | 7.3 | 8 | 302 | 3.7 | -5.8 | -1.6 | 2 | J |
| 385 | 7.3 | 45 | J | 7.2 | 11 | 313 | 4.7 | -5.2 | -1.1 | 1 | J |
| 379 | 6.5 | 37 | J | 6.9 | -32 | 332 | 4.9 | -0.7 | -4.3 | 2 | J |
| 371 | 6.0 | 31 | J | 6.7 | -18 | 334 | 5.4 | -1.4 | -2.9 | 2 | J |

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31

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 383 | 10.1 | 37 | J | 8.7 | 30 | 319 | 5.0 | -5.6 | 1.4 | 4 | J |
| 375 | 11.1 | 23 | J | 9.6 | 20 | 326 | 7.5 | -6.0 | 0.8 | 0 | J |
| 392 | 13.9 | 32 | J | 10.0 | -63 | 326 | 3.3 | 1.1 | -8.1 | 5 | J |
| 388 | 14.2 | 38 | J | 11.1 | -49 | 326 | 5.8 | -0.9 | -8.9 | 3 | J |
| 407 | 8.9 | 27 | J | 12.6 | -53 | 325 | 5.8 | -1.1 | -10.0 | 5 | C |
| 401 | 9.0 | 0 | C | 12.3 | -65 | 317 | 3.5 | -0.7 | -10.4 | 5 | C |
| 420 | 9.8 | 0 | C | 11.3 | -12 | 325 | 8.2 | -5.2 | -3.1 | 5 | C |
| 444 | 9.5 | 0 | C | 9.9 | -5 | 310 | 5.3 | -6.1 | -1.6 | 4 | C |
| 456 | 9.1 | 0 | C | 8.8 | 43 | 312 | 3.4 | -4.2 | 4.4 | 4 | C |
| | | | | | | | | | | | |
| 474 | 8.6 | 0 | C | 9.2 | -48 | 125 | -3.3 | 5.2 | -6.2 | 3 | C |
| 468 | 7.9 | 0 | C | 8.0 | -17 | 89 | 0.1 | 6.5 | -1.4 | 4 | C |
| 471 | 8.2 | 0 | C | 8.5 | 20 | 60 | 3.6 | 6.0 | 3.3 | 2 | C |
| 468 | 8.4 | 0 | C | 8.0 | 27 | 309 | 3.5 | -4.6 | 2.2 | 4 | C |
| 468 | 8.4 | 0 | C | 6.0 | 12 | 3 | 5.5 | 0.1 | 1.2 | 1 | C |
| | | | | | | | | | | | |
| 450 | 6.1 | 0 | C | 8.3 | 13 | 325 | 6.3 | -4.8 | 0.6 | 2 | C |
| 450 | 6.1 | 0 | C | 7.1 | 5 | 331 | 5.8 | -3.2 | -0.5 | 2 | C |
| 436 | 5.9 | 0 | C | 6.6 | 1 | 344 | 6.0 | -1.7 | -0.5 | 2 | C |
| 430 | 5.5 | 0 | C | 7.4 | -18 | 336 | 6.2 | -1.6 | -3.1 | 2 | C |
| 454 | 5.2 | 0 | C | 7.4 | -16 | 320 | 5.2 | -3.1 | -3.6 | 2 | C |
| 453 | 5.2 | 0 | C | 7.9 | -16 | 349 | 6.9 | -0.3 | -2.5 | 2 | C |
| 466 | 4.6 | 0 | C | 8.2 | -15 | 360 | 6.8 | 0.8 | -1.7 | 4 | C |
| 483 | 4.4 | 0 | C | 8.2 | 9 | 21 | 7.1 | 1.8 | 2.4 | 3 | C |

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33

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 494 | 7.5 | 0 | C | 10.7 | 5 | 332 | 8.1 | -4.2 | -1.3 | 5 | C |
| 500 | 6.7 | 0 | C | 10.3 | -6 | 313 | 6.3 | -5.7 | -3.8 | 3 | C |
| 513 | 6.7 | 0 | C | 9.9 | 16 | 316 | 5.7 | -6.0 | -0.1 | 5 | C |
| 558 | 6.9 | 0 | C | 9.8 | 33 | 326 | 5.8 | -5.2 | 2.8 | 5 | C |
| 512 | 6.4 | 0 | C | 10.5 | 13 | 325 | 7.4 | -5.5 | 0.5 | 4 | C |
| 517 | 7.0 | 0 | C | 10.3 | 41 | 322 | 5.9 | -0.1 | 5.2 | 2 | C |
| 505 | 7.2 | 0 | C | 10.2 | 14 | 321 | 7.2 | -6.2 | 1.0 | 3 | C |
| 520 | 7.4 | 0 | C | 9.7 | -43 | 303 | 3.6 | -4.5 | -6.9 | 2 | C |
| 516 | 7.6 | 0 | C | 9.9 | -15 | 310 | 5.8 | -6.6 | -3.2 | 3 | C |
| 516 | 6.7 | 0 | C | | | | | | | | |
| 516 | 6.7 | 0 | C | 7.7 | 19 | 320 | 5.3 | -4.5 | 2.0 | 2 | C |
| 519 | 7.0 | 0 | C | 7.7 | 2 | 306 | 3.8 | -5.3 | -0.2 | 3 | C |
| 543 | 7.2 | 0 | C | 7.7 | -3 | 299 | 2.1 | -3.8 | -0.6 | 6 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 534 | 6.5 | 0 | C | | | | | | | | |
| 534 | 6.5 | 0 | C | 6.3 | -12 | 301 | 2.7 | -4.2 | -2.3 | 2 | C |
| 538 | 5.9 | 0 | C | 6.6 | -43 | 299 | 1.7 | -1.9 | -4.1 | 4 | C |
| 539 | 5.1 | 0 | C | 6.8 | 7 | 328 | 4.7 | -3.1 | -0.4 | 3 | C |
| 543 | 4.6 | 0 | C | 7.2 | 4 | 322 | 5.2 | -3.9 | -1.2 | 2 | C |
| 611 | 3.8 | 0 | C | 6.5 | 47 | 314 | 2.6 | -4.3 | 2.4 | 3 | C |
| 607 | 3.6 | 0 | C | 5.7 | 3 | 311 | 3.3 | -3.5 | -1.6 | 2 | C |
| 617 | 3.5 | 0 | C | 5.9 | 64 | 304 | 1.2 | -3.7 | 3.1 | 3 | C |
| 604 | 3.4 | 0 | C | 5.8 | 3 | 295 | 2.0 | -3.9 | -1.9 | 2 | C |

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35

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 403 | 5.0 | 0 | C | 2.9 | -46 | 7 | 1.6 | 0.9 | -1.4 | 2 | C |
| 399 | 4.9 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 391 | 4.4 | 0 | C | 3.8 | 5 | 299 | 1.7 | -3.2 | -0.3 | 1 | C |
| 391 | 4.4 | 0 | C | 4.1 | 14 | 296 | 1.7 | -3.6 | 0.4 | 1 | C |
| 393 | 4.7 | 0 | C | 3.8 | 31 | 307 | 1.8 | -2.6 | 1.5 | 1 | C |
| 403 | 5.2 | 0 | C | 3.7 | 15 | 316 | 2.3 | -2.3 | 0.6 | 2 | C |
| 428 | 4.8 | 0 | C | 3.8 | -7 | 316 | 2.4 | -2.2 | -0.6 | 2 | C |
| 416 | 4.1 | 69 | L | 3.9 | 13 | 317 | 2.7 | -2.6 | 0.6 | 1 | C |
| 418 | 3.6 | 74 | L | 4.1 | -3 | 317 | 2.9 | -2.7 | -0.5 | 1 | C |
| 401 | 4.8 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 415 | 5.2 | 0 | C | 4.5 | -57 | 68 | 0.9 | 3.3 | -2.7 | 1 | C |
| 415 | 5.2 | 0 | C | 5.3 | -43 | 97 | -0.4 | 4.8 | -1.9 | 1 | C |
| 404 | 5.8 | 0 | C | 5.6 | -49 | 5 | 3.0 | 1.7 | -3.0 | 3 | C |
| 410 | 5.2 | 0 | C | 5.4 | -45 | 349 | 3.5 | 1.0 | -3.5 | 2 | C |
| 397 | 5.5 | 0 | C | 5.8 | -35 | 338 | 4.3 | 0.0 | -3.7 | 1 | C |
| 384 | 5.5 | 0 | C | 5.9 | -15 | 338 | 5.3 | -1.1 | -2.4 | 1 | C |
| 383 | 5.6 | 0 | C | 5.8 | -17 | 341 | 5.2 | -0.7 | -2.4 | 1 | C |

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36

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 3.3 | 124 | L | 6.0 | -12 | 356 | 5.5 | 0.2 | -1.2 | 2 | J |
| 2 | 381 | 4.9 | 29 | J | 6.0 | -6 | 10 | 5.8 | 1.2 | -0.1 | 1 | J |
| 3 | 378 | 5.2 | 27 | J | 5.6 | -4 | 34 | 4.1 | 2.7 | 0.8 | 2 | J |
| 4 | 376 | 6.1 | 25 | J | 6.1 | -38 | 38 | 3.4 | 3.7 | -2.1 | 3 | J |
| 5 | 389 | 6.4 | 30 | J | 6.3 | -79 | 16 | 1.1 | 2.2 | -5.5 | 2 | J |
| 6 | 388 | 7.6 | 36 | J | 5.6 | -67 | 69 | 0.7 | 2.9 | -3.8 | 3 | J |
| 7 | 386 | 8.3 | 39 | J | 6.4 | -85 | 53 | 0.3 | 1.7 | -5.8 | 2 | J |
| 8 | 381 | 8.7 | 30 | J | 6.0 | -63 | 68 | 0.6 | 2.0 | -2.8 | 5 | J |
| 9 | 391 | 8.7 | 35 | J | 7.1 | -72 | 236 | -1.2 | -0.9 | -6.7 | 2 | J |
| 10 | 393 | 9.1 | 33 | J | 7.6 | -66 | 238 | -1.6 | -1.8 | -7.1 | 1 | J |
| 11 | 390 | 9.6 | 36 | J | 8.5 | -79 | 185 | -1.6 | 0.7 | -8.2 | 1 | C |
| 12 | 376 | 10.4 | 33 | J | 8.5 | -77 | 250 | -0.6 | -0.9 | -8.1 | 2 | C |
| 13 | 384 | 11.2 | 43 | J | 7.3 | -86 | 222 | -0.4 | 0.5 | -6.9 | 2 | C |
| 14 | 393 | 13.6 | 73 | J | 7.3 | 16 | 277 | 0.8 | -7.0 | 1.0 | 1 | C |
| 15 | 393 | 12.9 | 82 | J | 8.1 | -33 | 278 | 0.8 | -5.0 | -4.8 | 4 | C |
| 16 | 400 | 13.1 | 76 | J | 9.0 | -75 | 271 | 0.0 | -0.2 | -8.6 | 2 | C |
| 17 | 406 | 8.0 | 117 | L | 10.6 | -63 | 278 | 0.6 | -1.7 | -9.1 | 5 | C |
| 18 | 441 | 4.9 | 181 | L | 10.8 | -7 | 303 | 5.6 | -7.6 | -3.9 | 3 | C |
| 19 | 477 | 6.1 | 221 | L | 9.6 | -8 | 290 | 2.9 | -7.0 | -4.1 | 4 | J |
| 20 | 450 | 7.5 | 0 | C | 9.2 | 22 | 332 | 7.3 | -4.9 | 1.4 | 1 | C |
| 21 | 453 | 5.9 | 180 | L | 8.8 | 5 | 300 | 3.9 | -6.3 | -2.4 | 4 | J |
| 22 | 477 | 5.2 | 170 | L | 8.1 | 8 | 283 | 1.7 | -7.0 | -2.6 | 3 | J |
| 23 | 471 | 4.5 | 132 | L | 8.6 | 5 | 272 | 0.3 | -7.5 | -3.4 | 2 | J |
| 24 | 460 | 4.0 | 116 | L | 8.3 | 7 | 290 | 2.8 | -7.2 | -2.9 | 2 | J |

### FEB. 7, 1981

38

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 494 | 6.7 | 0 | C | 12.0 | -42 | 272 | 0.4 | -3.9 | -11.3 | 1 | C |
| 2 | 465 | 2.8 | 0 | C | 12.3 | -18 | 246 | -4.5 | -7.5 | -8.1 | 3 | C |
| 3 | 471 | 3.0 | 0 | C | 11.6 | -37 | 248 | -3.4 | -4.6 | -9.6 | 3 | J |
| 4 | 493 | 2.4 | 29 | J | 11.5 | -4 | 258 | -2.3 | -9.8 | -4.9 | 3 | J |
| 5 | 499 | 2.9 | 32 | J | 11.2 | -17 | 278 | 1.4 | -8.4 | -6.2 | 4 | J |
| 6 | 502 | 2.8 | 33 | J | 11.5 | 5 | 250 | -3.9 | -10.4 | -2.0 | 2 | C |
| 7 | 487 | 3.3 | 31 | J | 11.6 | 7 | 234 | -6.7 | -9.4 | -0.7 | 0 | C |
| 8 | 485 | 4.6 | 35 | J | 11.1 | 34 | 223 | -6.6 | -7.1 | 4.9 | 2 | J |
| 9 | 495 | 4.8 | 33 | J | 11.3 | 36 | 226 | -6.1 | -7.1 | 5.4 | 3 | J |
| 10 | 479 | 5.1 | 35 | J | 11.5 | 27 | 215 | -8.0 | -6.1 | 4.3 | 4 | J |
| 11 | 484 | 4.6 | 34 | J | 11.6 | 29 | 216 | -7.7 | -6.1 | 4.7 | 4 | J |
| 12 | 462 | 4.3 | 0 | C | 11.9 | 32 | 209 | -8.6 | -5.4 | 5.5 | 2 | C |
| 13 | 479 | 4.6 | 35 | J | 11.9 | 38 | 211 | -7.3 | -5.2 | 6.0 | 4 | J |
| 14 | 475 | 4.6 | 38 | J | 12.0 | 30 | 209 | -8.7 | -5.7 | 4.9 | 3 | J |
| 15 | 475 | 4.2 | 39 | J | 12.4 | 36 | 211 | -8.5 | -6.4 | 6.1 | 2 | J |
| 16 | 470 | 4.3 | 37 | J | 12.7 | 37 | 217 | -9.0 | -6.3 | 6.3 | 2 | J |
| 17 | 470 | 4.5 | 44 | J | 12.7 | 30 | 199 | -10.2 | -5.2 | 5.0 | 2 | J |
| 18 | 457 | 5.9 | 30 | J | 12.6 | 15 | 192 | -11.9 | -3.5 | 2.2 | 0 | J |
| 19 | 456 | 5.4 | 27 | J | 12.8 | 22 | 184 | -11.5 | -2.5 | 4.0 | 3 | J |
| 20 | 461 | 4.4 | 35 | J | 13.0 | 31 | 189 | -11.0 | -4.4 | 5.3 | 1 | J |
| 21 | 448 | 3.9 | 24 | J | 13.2 | 33 | 179 | -10.9 | -3.1 | 6.4 | 2 | J |
| 22 | 434 | 3.8 | 0 | C | 12.9 | 30 | 191 | -8.3 | -3.8 | 3.5 | 8 | J |
| 23 | 449 | 4.6 | 25 | J | 12.9 | 20 | 173 | -11.7 | -0.9 | 4.4 | 3 | J |
| 24 | 446 | 4.2 | 26 | J | 13.0 | 32 | 154 | -9.3 | 0.7 | 7.9 | 5 | J |

### FEB. 9, 1981

40

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 458 | 14.4 | 78 | J | 11.9 | -24 | 291 | 3.8 | -6.2 | -8.9 | 3 | J |
| 2 | 444 | 12.6 | 0 | C | 11.1 | -29 | 298 | 4.4 | -4.9 | -8.5 | 3 | J |
| 3 | 453 | 11.1 | 68 | J | 10.9 | -39 | 304 | 4.3 | -3.0 | -8.4 | 5 | J |
| 4 | 452 | 10.6 | 81 | J | 10.4 | -57 | 310 | 3.4 | -0.6 | -9.2 | 4 | J |
| 5 | 443 | 8.4 | 87 | J | 10.4 | -64 | 338 | 4.1 | 1.5 | -9.2 | 2 | J |
| 6 | 448 | 14.9 | 119 | J | 7.2 | -54 | 325 | 3.2 | -0.6 | -5.8 | 3 | J |
| 7 | 452 | 11.5 | 121 | J | 6.0 | -51 | 84 | 0.3 | 3.9 | -3.1 | 3 | J |
| 8 | 425 | 10.5 | 116 | J | 7.1 | -39 | 135 | -2.6 | 3.1 | -2.4 | 5 | J |
| 9 | 419 | 9.9 | 140 | J | 6.5 | -3 | 142 | -3.5 | 2.8 | 0.2 | 5 | J |
| 10 | 421 | 8.1 | 126 | J | 7.3 | -4 | 108 | -2.2 | 6.7 | 0.4 | 2 | J |
| 11 | 420 | 7.6 | 119 | J | 7.6 | -7 | 105 | -1.9 | 7.2 | -0.1 | 2 | J |
| 12 | 434 | 8.7 | 49 | J | 9.5 | -33 | 102 | -1.7 | 8.4 | -4.2 | 0 | J |
| 13 | 436 | 9.0 | 52 | J | 10.4 | -5 | 109 | -3.3 | 9.5 | 0.4 | 2 | J |
| 14 | 439 | 7.9 | 51 | J | 10.5 | 15 | 112 | -3.8 | 8.7 | 4.2 | 1 | J |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 420 | 7.3 | 0 | C | 10.5 | 37 | 140 | -6.3 | 3.7 | 7.3 | 1 | C |
| 17 | 426 | 8.2 | 0 | C | 10.6 | 25 | 115 | -3.5 | 5.9 | 5.8 | 5 | C |
| 18 | 434 | 6.0 | 30 | J | 8.9 | 9 | 115 | -3.6 | 6.8 | 4.0 | 1 | J |
| 19 | 428 | 6.3 | 35 | J | 9.2 | 26 | 137 | -5.8 | 3.5 | 5.7 | 2 | J |
| 20 | 429 | 7.0 | 34 | J | 9.2 | 31 | 139 | -5.9 | 2.6 | 6.4 | 1 | J |
| 21 | 430 | 7.2 | 32 | J | 8.8 | 32 | 132 | -4.8 | 2.6 | 6.5 | 2 | J |
| 22 | 404 | 6.1 | 0 | C | 8.9 | 36 | 142 | -5.7 | 1.2 | 6.7 | 1 | C |
| 23 | 402 | 6.6 | 0 | C | 8.7 | 25 | 159 | -7.3 | 0.6 | 4.5 | 1 | C |
| 24 | 407 | 6.9 | 0 | C | 8.0 | 17 | 166 | -7.3 | 0.4 | 2.9 | 2 | C |

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42

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 6.8 | 17 | J | 6.8 | 17 | 151 | -5.5 | 1.7 | 3.2 | 2 | J |
| 2 | 376 | 7.9 | 21 | J | 6.7 | 17 | 130 | -4.1 | 3.4 | 4.1 | 1 | J |
| 3 | 380 | 8.0 | 21 | J |  |  |  |  |  |  |  |  |
| 4 | 376 | 7.1 | 24 | J | 7.3 | 8 | 127 | -4.3 | 4.9 | 3.2 | 0 | J |
| 5 | 371 | 8.7 | 18 | J | 7.5 | 18 | 135 | -4.9 | 3.8 | 3.8 | 2 | J |
| 6 |  |  |  |  | 8.0 | 2 | 127 | -4.7 | 5.9 | 2.1 | 2 | J |
| 7 | 360 | 8.2 | 0 | C | 8.4 | 11 | 120 | -4.1 | 6.5 | 3.2 | 2 | J |
| 8 | 372 | 9.6 | 19 | J | 8.9 | 20 | 124 | -4.6 | 6.1 | 4.2 | 2 | J |
| 9 | 373 | 9.8 | 19 | J | 8.7 | 29 | 125 | -4.2 | 5.3 | 5.0 | 2 | J |
| 10 | 370 | 9.0 | 19 | J | 8.4 | 23 | 125 | -4.3 | 5.7 | 4.0 | 1 | J |
| 11 | 366 | 7.3 | 25 | J | 8.2 | 8 | 133 | -5.3 | 5.5 | 1.8 | 2 | J |
| 12 | 361 | 8.4 | 0 | C | 8.0 | 21 | 142 | -5.7 | 4.1 | 3.4 | 2 | J |
| 13 | 371 | 9.1 | 0 | C | 7.9 | -38 | 168 | -5.4 | 1.7 | -4.1 | 3 | C |
| 14 | 373 | 9.0 | 0 | C | 7.4 | 21 | 116 | -1.9 | 3.6 | 2.3 | 5 | C |
| 15 | 394 | 9.1 | 0 | C | 6.5 | 50 | 94 | -0.2 | 2.0 | 3.8 | 4 | C |
| 16 | 397 | 9.5 | 0 | C | 7.4 | 12 | 107 | -1.3 | 3.7 | 1.9 | 5 | C |
| 17 | 397 | 9.5 | 0 | C | 8.8 | -36 | 139 | -5.3 | 6.0 | -3.4 | 1 | C |
| 18 | 421 | 8.6 | 75 | J | 8.3 | -66 | 186 | -2.7 | 1.9 | -5.8 | 5 | J |
| 19 | 426 | 8.8 | 71 | J | 8.4 | -62 | 246 | -1.5 | -0.3 | -7.7 | 3 | J |
| 20 | 396 | 9.3 | 0 | C | 8.8 | -29 | 182 | -7.1 | 1.5 | -3.6 | 3 | C |
| 21 | 397 | 9.7 | 0 | C | 8.0 | 1 | 185 | -7.8 | -0.6 | -0.2 | 1 | C |
| 22 | 388 | 9.7 | 0 | C | 7.2 | 1 | 132 | -3.1 | 2.9 | 1.8 | 5 | C |
| 23 | 392 | 9.2 | 0 | C | 8.5 | -40 | 96 | -0.5 | 7.2 | -1.2 | 4 | C |
| 24 | 402 | 9.0 | 0 | C | 8.1 | -69 | 172 | -2.3 | 3.4 | -5.1 | 4 | C |

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|  | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 448 | 3.5 | 102 | L | 8.3 | 9 | 313 | 5.2 | -5.5 | -1.6 | 3 | J |
|  | 420 | 4.0 | 114 | L | 7.6 | 3 | 345 | 7.1 | -1.9 | -0.5 | 1 | J |
|  | 427 | 3.9 | 121 | L | 7.1 | 9 | 330 | 5.9 | -3.6 | -0.5 | 2 | J |
|  | 416 | 3.9 | 47 | J | 7.7 | 8 | 333 | 6.5 | -3.4 | -0.3 | 2 | C |
|  | 419 | 4.6 | 54 | J | 7.5 | 2 | 354 | 6.8 | -0.8 | -0.0 | 3 | J |
|  | 413 | 3.6 | 36 | J | 6.8 | 17 | 336 | 5.8 | -3.0 | 1.2 | 2 | J |
|  | 406 | 3.9 | 33 | J | 7.5 | 18 | 335 | 6.5 | -3.5 | 1.6 | 1 | J |
|  | 433 | 3.8 | 88 | J | 7.6 | 31 | 311 | 4.3 | -5.5 | 3.0 | 1 | J |
|  | 447 | 4.2 | 86 | J | 8.8 | 43 | 316 | 4.4 | -4.9 | 5.0 | 4 | J |
|  | 544 | 9.1 | 282 | J | 12.0 | 16 | 276 | 0.9 | -9.0 | 1.5 | 8 | J |
|  | 551 | 9.0 | 297 | J | 11.5 | -1 | 268 | -0.3 | -9.6 | -1.2 | 6 | J |
|  | 523 | 7.7 | 210 | J | 14.1 | 37 | 279 | 1.7 | -11.5 | 6.9 | 4 | J |
|  | 537 | 32.5 | 185 | J | 11.7 | -53 | 307 | 4.2 | -4.3 | -9.8 | 2 | J |
|  | 542 | 18.5 | 55 | J | 15.2 | -67 | 40 | 4.2 | 5.5 | -12.2 | 6 | J |
|  | 537 | 18.4 | 92 | J | 14.1 | 2 | 68 | 2.9 | 7.0 | 1.7 | 12 | J |
|  | 546 | 14.0 | 162 | J | 11.4 | 54 | 130 | -2.8 | 1.8 | 6.7 | 9 | J |
|  | 533 | 16.3 | 154 | J | 9.5 | -56 | 289 | 1.6 | -2.4 | -8.3 | 4 | J |
|  | 541 | 14.0 | 78 | J | 10.4 | -52 | 284 | 1.5 | -3.0 | -9.4 | 3 | J |
|  | 529 | 18.2 | 54 | J | 10.7 | -60 | 312 | 3.3 | -0.1 | -9.2 | 4 | J |
|  | 551 | 14.1 | 30 | J | 12.7 | -37 | 270 | -0.0 | -5.9 | -11.0 | 2 | J |
|  | 545 | 10.1 | 26 | J | 12.4 | -33 | 267 | -0.5 | -6.0 | -10.6 | 2 | J |
|  | 523 | 8.4 | 40 | J | 12.2 | -21 | 259 | -2.1 | -7.6 | -9.1 | 2 | J |
|  | 518 | 9.6 | 42 | J | 12.0 | -45 | 282 | 1.7 | -3.0 | -11.2 | 3 | J |
|  | 512 | 8.3 | 43 | J | 11.7 | -45 | 280 | 1.4 | -2.9 | -10.9 | 3 | J |

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|  | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 453 | 4.5 | 54 | J | 12.7 | 43 | 167 | -8.8 | -2.3 | 8.4 | 3 | J |
|  | 436 | 5.0 | 62 | J | 12.5 | 15 | 153 | -10.6 | 3.3 | 5.3 | 2 | J |
|  | 423 | 4.4 | 37 | J | 12.7 | 12 | 152 | -10.7 | 4.0 | 4.8 | 2 | J |
|  | 423 | 4.2 | 35 | J | 12.4 | 16 | 151 | -10.2 | 3.9 | 5.3 | 3 | J |
|  | 423 | 4.2 | 54 | J | 12.3 | 25 | 156 | -9.9 | 2.5 | 6.3 | 2 | J |
|  | 403 | 3.9 | 27 | J | 11.9 | 15 | 150 | -9.8 | 4.6 | 4.5 | 1 | J |
|  | 411 | 3.6 | 24 | J | 11.8 | 12 | 147 | -9.5 | 5.5 | 3.7 | 2 | J |
|  | 413 | 4.0 | 29 | J | 11.4 | 13 | 139 | -8.3 | 6.7 | 3.8 | 2 | J |
|  | 410 | 4.0 | 24 | J | 11.3 | 9 | 137 | -7.9 | 7.1 | 2.8 | 2 | J |
|  | 415 | 3.9 | 28 | J | 11.1 | 10 | 135 | -7.7 | 7.4 | 2.8 | 2 | J |
|  | 415 | 3.8 | 31 | J | 11.0 | 19 | 139 | -7.6 | 6.2 | 4.2 | 3 | J |
|  | 412 | 4.7 | 28 | J | 10.6 | 21 | 142 | -7.6 | 5.5 | 4.4 | 2 | J |
|  | 406 | 6.6 | 40 | J | 9.9 | 21 | 145 | -7.2 | 4.5 | 4.0 | 3 | J |
|  | 435 | 8.5 | 47 | J | 11.8 | 22 | 120 | -5.0 | 8.0 | 5.5 | 5 | J |
|  | 446 | 12.9 | 73 | J | 16.8 | 9 | 113 | -6.2 | 13.8 | 5.4 | 5 | J |
|  | 442 | 13.4 | 0 | C | 17.2 | 15 | 116 | -7.0 | 12.8 | 7.8 | 3 | C |
|  | 457 | 13.1 | 0 | C | 18.0 | -35 | 90 | 0.1 | 15.1 | -4.9 | 8 | C |
|  | 447 | 10.3 | 54 | J | 16.8 | -19 | 100 | -2.7 | 16.2 | 0.3 | 3 | J |
|  | 438 | 12.1 | 66 | J | 15.6 | -7 | 91 | -0.3 | 14.8 | 4.3 | 3 | J |
|  | 448 | 12.8 | 76 | J | 15.4 | -10 | 103 | -3.2 | 13.7 | 3.8 | 5 | J |
|  | 434 | 12.4 | 90 | J | 14.3 | -17 | 99 | -1.9 | 12.3 | 2.3 | 6 | J |
|  | 452 | 11.2 | 156 | J | 13.0 | -52 | 83 | 0.9 | 11.4 | -4.8 | 4 | J |
|  | 457 | 13.2 | 109 | J | 12.2 | -62 | 54 | 2.9 | 8.0 | -6.0 | 6 | J |
|  | 470 | 13.2 | 66 | J | 13.0 | -42 | 315 | 6.7 | -1.5 | -10.7 | 2 | J |

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|  | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 418 | 7.1 | 0 | C | 7.7 | 21 | 169 | -6.9 | -0.1 | 3.0 | 1 | C |
|  | 411 | 6.9 | 0 | C | 7.6 | 21 | 167 | -6.9 | 0.1 | 3.1 | 1 | C |
|  | 414 | 6.4 | 0 | C | 7.0 | 13 | 148 | -5.7 | 2.5 | 2.9 | 1 | C |
|  | 407 | 5.8 | 0 | C | 6.8 | 19 | 168 | -5.9 | 0.3 | 2.4 | 2 | C |
|  | 422 | 5.2 | 20 | J | 6.7 | 22 | 157 | -5.3 | 1.3 | 3.0 | 2 | J |
|  | 433 | 5.3 | 23 | J | 6.4 | 25 | 139 | -4.3 | 2.8 | 3.6 | 1 | J |
|  | 431 | 6.1 | 26 | J | 6.6 | 22 | 134 | -4.2 | 3.6 | 3.4 | 1 | J |
|  | 411 | 5.0 | 24 | J | 7.3 | 29 | 176 | -6.1 | -0.2 | 3.4 | 2 | J |
|  | 407 | 5.2 | 21 | J | 6.9 | 24 | 183 | -6.1 | -0.7 | 2.6 | 2 | J |
|  | 404 | 5.1 | 18 | J | 7.0 | 21 | 185 | -6.4 | -0.9 | 2.4 | 1 | J |
|  | 402 | 5.2 | 17 | J | 7.0 | 22 | 175 | -6.4 | 0.2 | 2.6 | 1 | J |
|  | 402 | 5.4 | 16 | J | 6.9 | 7 | 170 | -6.5 | 1.0 | 0.9 | 2 | J |
|  | 399 | 5.2 | 15 | J | 6.9 | 18 | 155 | -5.9 | 2.4 | 2.5 | 1 | J |
|  | 400 | 4.8 | 15 | J | 6.9 | 10 | 149 | -5.8 | 3.2 | 1.8 | 1 | J |
|  | 397 | 6.5 | 20 | J | 6.6 | 16 | 219 | -4.3 | -3.8 | 0.8 | 3 | J |
|  | 398 | 4.1 | 18 | J | 6.8 | 22 | 216 | -5.0 | -4.2 | 1.5 | 1 | J |
|  | 390 | 5.0 | 25 | J | 6.5 | 39 | 203 | -4.7 | -3.1 | 3.3 | 1 | J |
|  | 386 | 4.1 | 40 | J | 6.7 | 19 | 187 | -6.2 | -1.5 | 1.7 | 1 | J |
|  | 380 | 4.8 | 34 | J | 6.6 | 15 | 189 | -6.2 | -1.6 | 1.2 | 1 | J |
|  | 376 | 4.7 | 25 | J | 6.3 | 15 | 181 | -6.0 | -0.8 | 1.4 | 2 | J |
|  | 374 | 4.4 | 25 | J | 6.4 | 12 | 181 | -6.2 | -0.7 | 1.1 | 1 | J |
|  | 368 | 7.6 | 17 | J | 6.6 | 28 | 197 | -5.2 | -2.8 | 1.7 | 2 | J |
|  | 373 | 7.2 | 19 | J | 6.5 | 23 | 174 | -6.0 | -0.7 | 2.5 | 1 | J |
|  | 378 | 6.5 | 0 | C | 6.7 | 24 | 176 | -6.1 | -1.0 | 2.5 | 1 | C |

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|  | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 410 | 8.8 | 0 | C | 8.1 | 0 | 121 | -3.5 | 4.9 | 2.8 | 5 | C |
|  | 411 | 8.4 | 94 | J | 7.2 | 7 | 104 | -1.4 | 4.6 | 3.4 | 4 | J |
|  | 405 | 7.8 | 92 | J | 7.0 | 36 | 109 | -1.4 | 2.2 | 4.6 | 5 | J |
|  | 415 | 7.5 | 88 | J | 6.7 | -4 | 93 | -0.3 | 4.6 | 1.6 | 4 | J |
|  | 404 | 7.6 | 116 | J | 6.0 | 26 | 102 | -0.9 | 3.4 | 3.6 | 3 | C |
|  | 398 | 7.5 | 88 | J | 6.4 | 1 | 103 | -0.9 | 3.7 | 1.2 | 4 | C |
|  | 424 | 7.6 | 102 | J | 6.0 | 3 | 63 | 2.1 | 4.0 | 1.3 | 4 | J |
|  | 408 | 7.4 | 89 | J | 5.5 | -54 | 114 | -1.1 | 3.2 | -3.2 | 3 | J |
|  | 406 | 8.0 | 83 | J | 5.9 | -74 | 108 | -0.4 | 2.0 | -4.4 | 3 | J |
|  | 398 | 9.1 | 62 | J | 6.0 | -28 | 108 | -1.3 | 4.1 | -1.6 | 4 | J |
|  | 410 | 8.7 | 38 | J | 6.6 | -51 | 74 | 1.1 | 4.6 | -4.5 | 1 | J |
|  | 421 | 9.8 | 51 | J | 6.9 | -10 | 50 | 3.5 | 4.3 | -0.4 | 4 | J |
|  | 394 | 10.4 | 55 | J | 6.4 | 14 | 79 | 1.0 | 4.8 | 2.0 | 3 | J |
|  | 379 | 7.1 | 76 | L | 6.1 | 19 | 99 | -0.8 | 4.6 | 2.7 | 2 | C |
|  | 367 | 9.3 | 0 | C | 6.0 | 12 | 122 | -2.7 | 4.0 | 2.0 | 3 | C |
|  | 391 | 8.5 | 0 | C | 6.2 | 12 | 70 | 1.7 | 4.2 | 2.2 | 3 | C |
|  | 386 | 8.9 | 0 | C | 5.9 | 20 | 49 | 2.0 | 1.8 | 1.8 | 5 | C |
|  | 360 | 9.1 | 0 | C | 4.9 | -6 | 170 | -4.8 | 1.0 | -0.2 | 1 | C |
|  | 363 | 9.7 | 0 | C | 4.4 | 8 | 153 | -3.8 | 1.5 | 1.3 | 1 | C |
|  | 362 | 10.1 | 0 | C | 5.3 | 1 | 172 | -5.2 | 0.6 | 0.4 | 1 | C |
|  | 341 | 9.3 | 0 | C | 5.8 | -2 | 175 | -5.7 | 0.6 | 0.0 | 1 | C |
|  | 348 | 9.1 | 0 | C | 5.8 | -10 | 175 | -5.5 | 0.9 | -0.6 | 1 | C |
|  | 359 | 8.8 | 0 | C | 5.6 | -28 | 176 | -4.9 | 1.6 | -2.0 | 1 | C |
|  | 362 | 8.3 | 0 | C | 5.4 | -22 | 166 | -4.1 | 1.7 | -1.0 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 359 | 8.0 | 0 | C | 5.8 | -15 | 127 | -3.3 | 4.4 | 0.9 | 1 | C |
| 2 | 365 | 7.5 | 0 | C | 6.0 | 4 | 113 | -2.0 | 4.0 | 2.6 | 3 | C |
| 3 | 363 | 7.5 | 0 | C | 5.8 | 3 | 116 | -2.2 | 3.9 | 2.3 | 3 | C |
| 4 | 369 | 6.6 | 0 | C | 5.9 | -24 | 182 | -5.3 | 0.8 | -2.3 | 0 | C |
| 5 | 373 | 6.6 | 0 | C | 5.8 | -30 | 178 | -5.0 | 1.2 | -2.6 | 1 | C |
| 6 | 376 | 6.6 | 0 | C | 5.8 | -27 | 184 | -5.1 | 0.4 | -2.6 | 1 | C |
| 7 | 371 | 6.7 | 0 | C | 5.9 | -17 | 179 | -5.5 | 0.5 | -1.6 | 1 | C |
| 8 | 355 | 6.6 | 0 | C | 6.0 | -4 | 173 | -5.9 | 0.7 | -0.2 | 0 | C |
| 9 | 350 | 6.7 | 0 | C | 6.1 | -7 | 183 | -6.0 | -0.2 | -0.8 | 1 | C |
| 10 | 366 | 7.0 | 0 | C | 6.0 | -17 | 182 | -5.7 | 0.0 | -1.8 | 1 | C |
| 11 | 376 | 7.5 | 0 | C | 5.6 | -16 | 215 | -4.3 | -2.8 | -1.9 | 1 | C |
| 12 | 373 | 7.4 | 0 | C | 5.5 | -28 | 208 | -4.1 | -1.8 | -2.8 | 1 | C |
| 13 | 370 | 7.4 | 0 | C | 5.3 | -31 | 192 | -4.3 | -0.5 | -2.7 | 1 | C |
| 14 | 370 | 7.5 | 0 | C | 5.4 | -52 | 210 | -2.8 | -0.8 | -4.3 | 1 | C |
| 15 | 366 | 7.5 | 0 | C | 5.4 | -20 | 190 | -4.7 | -0.4 | -1.9 | 1 | C |
| 16 | 364 | 7.5 | 0 | C | 5.5 | -28 | 166 | -3.9 | 1.5 | -1.8 | 3 | C |
| 17 | 364 | 7.3 | 0 | C | 5.3 | -20 | 132 | -3.0 | 3.7 | -0.5 | 2 | C |
| 18 | 362 | 7.6 | 0 | C | 5.2 | -9 | 100 | -0.8 | 4.5 | 1.0 | 2 | C |
| 19 | 364 | 7.8 | 0 | C | 5.0 | -11 | 112 | -1.6 | 3.9 | 0.8 | 2 | C |
| 20 | 359 | 7.8 | 0 | C | 5.0 | -7 | 147 | -3.7 | 2.4 | 0.6 | 2 | C |
| 21 | 353 | 7.9 | 0 | C | 5.0 | 10 | 153 | -4.2 | 1.5 | 1.8 | 1 | C |
| 22 | 351 | 8.1 | 0 | C | 5.0 | 5 | 144 | -3.8 | 2.2 | 1.7 | 1 | C |
| 23 | 349 | 8.6 | 0 | C | 5.1 | 14 | 147 | -4.0 | 1.6 | 2.4 | 1 | C |
| 24 | 346 | 8.6 | 0 | C | 5.4 | 5 | 165 | -5.0 | 0.9 | 1.1 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 4.0 | 0 | 117 | -1.5 | 2.6 | 1.5 | 2 | C |
| 2 | | | | | | | | | | | | |
| 3 | 320 | 10.7 | 0 | C | 3.5 | 48 | 97 | -0.3 | 0.8 | 3.3 | 1 | C |
| 4 | 320 | 10.7 | 0 | C | 4.2 | -10 | 133 | -2.4 | 2.7 | 0.5 | 2 | C |
| 5 | 311 | 12.4 | 0 | C | 3.8 | 40 | 53 | 0.6 | 0.4 | 1.0 | 3 | C |
| 6 | 315 | 12.7 | 0 | C | 3.0 | 47 | 86 | 0.1 | 0.7 | 1.5 | 2 | C |
| 7 | 308 | 12.8 | 0 | C | 3.8 | 29 | 60 | 0.7 | 1.0 | 1.1 | 3 | C |
| 8 | 310 | 12.7 | 0 | C | 4.0 | -46 | 123 | -0.5 | 1.0 | -0.8 | 3 | C |
| 9 | 312 | 12.1 | 0 | C | 4.9 | 64 | 114 | -0.8 | 1.0 | 4.1 | 2 | C |
| 10 | 312 | 13.1 | 0 | C | 5.2 | 9 | 125 | -2.8 | 3.8 | 1.4 | 1 | C |
| 11 | 311 | 12.5 | 0 | C | 4.9 | -11 | 164 | -4.4 | 1.4 | -0.7 | 2 | C |
| 12 | 307 | 13.0 | 0 | C | 5.3 | -8 | 157 | -4.4 | 1.9 | -0.3 | 2 | C |
| 13 | 315 | 12.8 | 0 | C | 6.1 | -24 | 133 | -3.8 | 4.3 | -1.7 | 1 | C |
| 14 | 334 | 16.5 | 0 | C | 7.5 | -28 | 138 | -2.5 | 2.5 | -1.3 | 6 | C |
| 15 | 343 | 22.6 | 0 | C | 6.7 | -2 | 123 | -1.5 | 2.2 | 0.4 | 6 | C |
| 16 | 346 | 19.7 | 0 | C | 7.6 | -54 | 152 | -3.7 | 3.4 | -4.9 | 3 | C |
| 17 | 343 | 18.4 | 0 | C | 7.4 | -56 | 256 | -1.0 | -1.7 | -6.5 | 3 | C |
| 18 | 346 | 17.7 | 0 | C | 6.9 | -23 | 278 | 0.8 | -4.5 | -4.5 | 2 | C |
| 19 | 340 | 16.5 | 0 | C | 7.7 | -18 | 293 | 2.8 | -5.1 | -4.9 | 1 | C |
| 20 | 337 | 13.0 | 0 | C | 7.5 | -20 | 296 | 3.0 | -4.4 | -5.1 | 1 | C |
| 21 | 338 | 13.8 | 0 | C | 6.1 | -29 | 310 | 3.1 | -2.0 | -4.3 | 2 | C |
| 22 | 349 | 18.0 | 0 | C | 7.3 | -54 | 320 | 3.2 | 0.7 | -6.3 | 1 | C |
| 23 | 360 | 21.7 | 0 | C | 7.1 | -63 | 131 | -2.1 | 5.3 | -4.0 | 1 | C |
| 24 | 360 | 21.7 | 0 | C | 8.4 | -36 | 116 | -2.8 | 7.5 | -1.0 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 359 | 20.3 | 0 | C | 8.6 | 26 | 109 | -2.4 | 4.2 | 6.8 | 2 | C |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 360 | 24.5 | 71 | J | 9.0 | 6 | 130 | -5.3 | 5.4 | 3.4 | 3 | J |
| 5 | 363 | 26.0 | 94 | J | 9.9 | 8 | 119 | -4.5 | 7.1 | 4.2 | 3 | J |
| 6 | 341 | 25.8 | 14 | J | 10.3 | 35 | 136 | -5.9 | 3.6 | 7.3 | 2 | J |
| 7 | 388 | 9.1 | 48 | J | 8.1 | 58 | 64 | 0.6 | 0.6 | 2.5 | 8 | J |
| 8 | 386 | 9.9 | 57 | J | 7.4 | 44 | 347 | 3.7 | -1.6 | 3.4 | 5 | J |
| 9 | 370 | 12.0 | 0 | C | 7.0 | 71 | 10 | 2.1 | -0.8 | 6.0 | 2 | C |
| 10 | 407 | 10.5 | 80 | J | 5.6 | 38 | 138 | -2.8 | 2.0 | 3.3 | 3 | C |
| 11 | 428 | 14.1 | 97 | J | 3.8 | -30 | 24 | 2.5 | 1.4 | -1.4 | 2 | J |
| 12 | 429 | 10.4 | 0 | C | 8.0 | -2 | 152 | -7.0 | 3.7 | 0.3 | 2 | C |
| 13 | 436 | 6.3 | 0 | C | 8.9 | 2 | 147 | -7.4 | 4.6 | 1.1 | 1 | C |
| 14 | 427 | 12.9 | 0 | C | 6.5 | -2 | 145 | -5.1 | 3.6 | 0.5 | 1 | C |
| 15 | 434 | 8.7 | 114 | J | 8.6 | -14 | 148 | -7.1 | 4.8 | -1.0 | 0 | J |
| 16 | 435 | 8.7 | 124 | J | 8.3 | -10 | 147 | -6.7 | 4.6 | -0.1 | 1 | J |
| 17 | 431 | 8.9 | 147 | J | 7.6 | -11 | 154 | -6.6 | 3.5 | -0.3 | 1 | J |
| 18 | 418 | 9.1 | 139 | J | 8.1 | -15 | 139 | -5.8 | 5.4 | 0.0 | 2 | J |
| 19 | 420 | 10.2 | 190 | J | 7.5 | -14 | 127 | -4.3 | 5.9 | 0.8 | 2 | J |
| 20 | 412 | 9.1 | 55 | J | 7.6 | -17 | 133 | -4.8 | 5.6 | 0.5 | 1 | J |
| 21 | 404 | 8.8 | 61 | J | 8.9 | -10 | 134 | -5.9 | 6.1 | 1.7 | 2 | J |
| 22 | 399 | 8.8 | 58 | J | 9.6 | -12 | 133 | -6.3 | 6.8 | 1.8 | 1 | J |
| 23 | 399 | 8.3 | 53 | J | 9.0 | -4 | 129 | -5.6 | 6.2 | 3.1 | 1 | J |
| 24 | 398 | 7.8 | 0 | C | 8.9 | 1 | 129 | -5.6 | 5.8 | 3.8 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 422 | 8.6 | 0 | C | 8.9 | -5 | 115 | -3.3 | 6.4 | 3.2 | 3 | C |
| 2 | 421 | 8.2 | 0 | C | 8.7 | -1 | 104 | -1.9 | 6.8 | 3.7 | 2 | C |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 423 | 9.0 | 0 | C | | | | | | | | |
| 7 | 423 | 9.0 | 0 | C | 7.3 | -2 | 136 | -5.1 | 4.9 | 1.1 | 1 | C |
| 8 | 423 | 8.2 | 109 | J | 7.3 | 2 | 134 | -4.5 | 4.5 | 1.3 | 3 | J |
| 9 | 448 | 8.0 | 100 | J | 8.1 | 14 | 91 | -0.1 | 7.2 | 3.3 | 2 | J |
| 10 | 437 | 7.3 | 93 | J | 7.8 | 13 | 107 | -2.1 | 6.4 | 2.8 | 3 | J |
| 11 | 435 | 7.2 | 83 | J | 8.3 | 8 | 102 | -1.7 | 7.6 | 2.3 | 2 | J |
| 12 | 434 | 7.1 | 78 | J | 8.1 | 23 | 104 | -1.8 | 6.5 | 4.2 | 1 | J |
| 13 | 422 | 5.8 | 0 | C | 7.2 | 27 | 99 | -1.0 | 5.6 | 4.3 | 1 | C |
| 14 | 433 | 5.4 | 96 | J | 6.2 | 16 | 113 | -2.3 | 5.0 | 2.8 | 1 | J |
| 15 | 443 | 5.3 | 74 | J | 6.4 | 12 | 105 | -1.6 | 5.4 | 2.7 | 1 | J |
| 16 | 454 | 5.5 | 31 | J | 6.9 | 7 | 77 | 1.5 | 6.1 | 2.7 | 1 | J |
| 17 | 450 | 5.3 | 37 | J | 6.3 | 15 | 66 | 2.4 | 4.5 | 3.2 | 2 | J |
| 18 | 431 | 4.1 | 49 | J | 5.8 | 14 | 97 | -0.7 | 4.5 | 3.3 | 2 | J |
| 19 | 437 | 3.7 | 34 | J | 6.0 | 13 | 84 | 0.6 | 4.5 | 3.6 | 1 | J |
| 20 | 431 | 4.0 | 47 | J | 5.7 | 5 | 80 | 0.9 | 4.5 | 2.9 | 2 | J |
| 21 | 420 | 4.1 | 49 | J | 5.4 | -2 | 94 | -0.4 | 4.5 | 2.4 | 2 | J |
| 22 | 432 | 4.9 | 59 | J | 6.8 | 1 | 92 | -0.2 | 4.9 | 3.1 | 3 | J |
| 23 | 447 | 5.3 | 62 | J | 7.1 | 10 | 81 | 0.8 | 3.9 | 3.6 | 5 | J |
| 24 | 424 | 5.6 | 98 | J | 7.2 | -14 | 128 | -3.6 | 4.7 | 1.3 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 340 | 8.9 | 0 | C | 5.5 | 18 | 166 | -4.9 | 0.2 | 2.0 | 1 | C |
| 2 | 341 | 9.0 | 0 | C | 5.5 | 19 | 155 | -4.6 | 1.0 | 2.5 | 1 | C |
| 3 | 327 | 9.0 | 0 | C | 5.5 | 17 | 143 | -4.2 | 2.0 | 2.8 | 1 | C |
| 4 | 315 | 9.0 | 0 | C | 5.9 | 7 | 165 | -5.6 | 1.1 | 1.2 | 1 | C |
| 5 | 304 | 9.0 | 0 | C | 5.9 | -7 | 170 | -5.8 | 1.2 | -0.3 | 0 | C |
| 6 | 310 | 8.9 | 0 | C | 6.0 | -9 | 151 | -5.0 | 2.8 | 0.0 | 2 | C |
| 7 | 315 | 8.5 | 0 | C | 6.0 | -5 | 136 | -4.3 | 4.1 | 0.6 | 1 | C |
| 8 | 325 | 8.6 | 0 | C | 5.6 | -2 | 174 | -5.5 | 0.6 | -0.1 | 1 | C |
| 9 | 328 | 8.7 | 0 | C | 5.6 | -3 | 176 | -5.6 | 0.4 | -0.2 | 1 | C |
| 10 | | | | | 5.6 | -7 | 172 | -5.4 | 0.8 | -0.6 | 1 | C |
| 11 | | | | | 5.9 | -14 | 166 | -5.5 | 1.5 | -1.2 | 0 | C |
| 12 | | | | | 5.7 | -6 | 151 | -4.8 | 2.8 | -0.2 | 1 | C |
| 13 | | | | | 5.6 | -10 | 163 | -5.2 | 1.7 | -0.7 | 1 | C |
| 14 | | | | | 5.9 | -3 | 158 | -5.3 | 2.2 | 0.1 | 1 | C |
| 15 | | | | | 5.9 | 7 | 129 | -3.5 | 4.0 | 1.6 | 2 | C |
| 16 | | | | | 6.0 | -20 | 156 | -5.1 | 2.7 | -1.3 | 1 | C |
| 17 | | | | | 5.7 | 1 | 107 | -1.3 | 4.0 | 1.5 | 3 | C |
| 18 | | | | | 5.4 | 8 | 85 | 0.4 | 3.9 | 2.2 | 3 | C |
| 19 | | | | | 5.3 | -21 | 137 | -3.5 | 3.7 | -0.3 | 1 | C |
| 20 | | | | | 5.0 | 8 | 127 | -2.6 | 2.8 | 2.2 | 2 | C |
| 21 | | | | | 5.3 | -8 | 123 | -2.4 | 3.6 | 1.3 | 2 | C |
| 22 | | | | | 3.7 | 34 | 131 | -1.9 | 0.9 | 2.7 | 1 | C |
| 23 | | | | | 3.7 | 14 | 133 | -2.2 | 1.6 | 1.9 | 1 | C |
| 24 | | | | | 3.6 | -6 | 117 | -1.5 | 2.8 | 1.3 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 353 | 19.8 | 0 | C | 8.3 | -25 | 92 | -0.3 | 8.0 | 0.9 | 2 | C |
| 2 | 326 | 14.0 | 0 | C | 7.9 | -20 | 96 | -0.8 | 7.7 | 1.3 | 1 | C |
| 3 | 336 | 14.2 | 0 | C | 6.2 | -22 | 107 | -1.6 | 5.8 | 0.5 | 1 | C |
| 4 | 339 | 15.1 | 0 | C | 7.1 | -38 | 96 | -0.6 | 6.7 | -1.6 | 2 | C |
| 5 | 341 | 19.5 | 0 | C | 4.9 | -83 | 304 | 0.2 | 0.9 | -3.3 | 3 | C |
| 6 | 345 | 21.5 | 0 | C | 4.6 | 54 | 141 | -1.7 | 0.4 | 3.2 | 3 | C |
| 7 | 355 | 18.1 | 0 | C | 5.2 | 24 | 132 | -3.1 | 2.8 | 2.8 | 1 | C |
| 8 | 347 | 21.0 | 0 | C | 3.0 | 27 | 177 | -1.0 | -0.1 | 0.5 | 3 | C |
| 9 | 370 | 23.1 | 0 | C | 3.6 | 57 | 250 | -0.3 | -1.1 | 1.2 | 3 | C |
| 10 | 368 | 23.8 | 0 | C | 5.9 | -11 | 350 | 5.4 | -0.8 | -1.2 | 2 | C |
| 11 | 365 | 25.6 | 0 | C | 3.2 | -35 | 78 | 0.5 | 2.6 | -1.3 | 1 | C |
| 12 | 358 | 18.9 | 0 | C | 6.2 | -50 | 136 | -2.6 | 3.1 | -3.9 | 2 | C |
| 13 | 350 | 17.9 | 0 | C | 5.9 | -17 | 118 | -2.4 | 4.8 | -0.8 | 2 | C |
| 14 | 348 | 14.2 | 0 | C | 6.7 | -17 | 102 | -1.2 | 5.9 | -0.7 | 2 | C |
| 15 | 347 | 12.3 | 0 | C | 5.9 | 0 | 113 | -2.1 | 4.8 | 1.1 | 2 | C |
| 16 | 341 | 12.4 | 0 | C | 5.3 | -80 | 324 | 0.7 | 0.9 | -4.7 | 2 | C |
| 17 | 337 | 13.3 | 0 | C | 4.6 | -56 | 56 | 1.0 | 2.3 | -2.0 | 3 | C |
| 18 | 329 | 13.6 | 0 | C | 4.5 | -35 | 61 | 1.2 | 2.7 | -0.8 | 3 | C |
| 19 | 328 | 13.6 | 0 | C | 5.9 | 9 | 122 | -2.9 | 3.9 | 2.7 | 1 | C |
| 20 | 333 | 12.7 | 0 | C | 5.8 | -25 | 149 | -3.8 | 3.0 | -0.8 | 3 | C |
| 21 | 333 | 12.7 | 0 | C | 5.7 | -18 | 145 | -4.4 | 3.5 | 0.1 | 1 | C |
| 22 | 331 | 12.8 | 0 | C | 5.8 | -25 | 159 | -4.8 | 2.9 | -1.1 | 1 | C |
| 23 | 334 | 13.3 | 0 | C | 5.8 | 52 | 67 | 1.2 | 0.3 | 4.7 | 3 | C |
| 24 | 345 | 17.8 | 0 | C | 8.8 | 49 | 95 | -0.4 | 1.2 | 7.8 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 382 | 6.7 | 0 | C | | | | | | | | |
| 3 | | | | | 5.8 | -1 | 142 | -4.4 | 3.1 | 1.5 | 1 | J |
| 4 | 351 | 10.8 | 45 | J | 6.6 | 2 | 126 | -3.4 | 4.2 | 2.2 | 3 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 337 | 13.6 | 33 | J | 6.5 | 17 | 117 | -2.6 | 4.4 | 3.0 | 3 | J |
| 8 | 337 | 16.3 | 27 | J | 6.8 | -3 | 115 | -2.7 | 5.8 | 1.0 | 2 | J |
| 9 | 336 | 23.1 | 23 | J | 6.9 | -3 | 137 | -5.0 | 4.7 | 0.5 | 1 | C |
| 10 | 327 | 28.7 | 30 | J | 7.2 | -1 | 131 | -4.6 | 5.2 | 0.8 | 1 | C |
| 11 | 340 | 14.7 | 26 | J | 7.8 | 15 | 141 | -5.1 | 3.8 | 2.3 | 3 | C |
| 12 | 340 | 11.3 | 46 | J | 7.1 | 45 | 147 | -3.3 | 1.5 | 4.2 | 5 | J |
| 13 | 350 | 13.2 | 56 | J | 8.3 | -13 | 124 | -3.8 | 5.8 | -0.6 | 5 | J |
| 14 | 352 | 10.6 | 44 | J | 8.8 | -1 | 129 | -4.8 | 5.9 | 1.1 | 4 | J |
| 15 | 349 | 9.8 | 41 | J | 9.3 | -9 | 135 | -5.9 | 6.0 | 0.1 | 4 | J |
| 16 | 365 | 9.5 | 44 | J | 9.7 | 0 | 122 | -5.0 | 7.6 | 2.3 | 3 | J |
| 17 | 359 | 9.3 | 46 | J | 10.0 | -2 | 127 | -5.8 | 7.4 | 2.3 | 2 | J |
| 18 | 364 | 9.8 | 51 | J | 10.1 | -4 | 128 | -5.8 | 7.2 | 2.2 | 3 | J |
| 19 | 373 | 10.3 | 61 | J | 10.1 | -5 | 128 | -5.5 | 6.7 | 2.3 | 5 | J |
| 20 | 376 | 11.2 | 0 | C | 11.6 | -7 | 123 | -6.2 | 9.0 | 3.2 | 2 | J |
| 21 | 402 | 10.4 | 0 | C | 11.5 | -11 | 131 | -7.4 | 8.5 | 2.3 | 0 | J |
| 22 | 408 | 9.9 | 0 | C | 9.5 | 9 | 122 | -4.9 | 5.9 | 5.3 | 2 | J |
| 23 | 421 | 10.1 | 0 | C | 9.3 | -7 | 136 | -6.4 | 5.8 | 2.4 | 2 | J |
| 24 | 435 | 9.6 | 0 | C | 9.0 | -55 | 132 | -3.3 | 6.8 | -3.9 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 453 | 6.1 | 77 | J | 6.9 | 39 | 110 | -1.6 | 1.7 | 5.4 | 4 | J |
| 2 | 471 | 5.6 | 57 | J | 7.5 | 25 | 71 | 2.1 | 3.8 | 5.6 | 2 | J |
| 3 | 467 | 6.1 | 69 | J | 7.3 | 51 | 52 | 2.7 | 0.5 | 6.4 | 2 | J |
| 4 | 463 | 6.4 | 41 | J | 7.8 | 51 | 69 | 1.7 | 1.6 | 7.3 | 2 | J |
| 5 | 398 | 7.9 | 0 | C | 8.0 | 17 | 85 | 0.7 | 5.9 | 4.8 | 2 | C |
| 6 | 441 | 7.3 | 53 | J | 7.9 | 59 | 77 | 0.9 | 1.5 | 7.2 | 3 | J |
| 7 | 413 | 6.1 | 0 | C | 8.8 | 36 | 72 | 2.2 | 5.1 | 6.8 | 0 | J |
| 8 | 425 | 5.6 | 30 | J | 8.8 | -13 | 97 | -0.9 | 7.2 | 0.0 | 5 | J |
| 9 | 407 | 6.3 | 32 | J | 6.6 | -27 | 109 | -1.4 | 4.5 | -1.4 | 5 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | 7.1 | -59 | 138 | -2.7 | 3.3 | -5.5 | 1 | J |
| 12 | 380 | 8.1 | 22 | J | 7.3 | -56 | 99 | -0.6 | 4.8 | -5.2 | 2 | J |
| 13 | 367 | 8.6 | 22 | J | 6.9 | -34 | 206 | -5.0 | -1.7 | -4.1 | 2 | J |
| 14 | | | | | | | | | | | | |
| 15 | 370 | 6.0 | 0 | C | | | | | | | | |
| 16 | 383 | 6.7 | 25 | J | 7.1 | -60 | 73 | 1.0 | 4.9 | -4.8 | 2 | J |
| 17 | 385 | 6.5 | 20 | J | 7.2 | -60 | 84 | 0.4 | 5.4 | -4.6 | 1 | J |
| 18 | 383 | 6.3 | 23 | J | 7.3 | -37 | 86 | 0.4 | 7.0 | -1.8 | 1 | J |
| 19 | 376 | 5.8 | 22 | J | 7.2 | -19 | 85 | 0.6 | 7.0 | 0.8 | 1 | J |
| 20 | 374 | 5.4 | 22 | J | 7.0 | -22 | 77 | 1.4 | 6.7 | 0.7 | 1 | J |
| 21 | 384 | 4.7 | 26 | J | 7.2 | -10 | 69 | 2.5 | 6.3 | 2.3 | 1 | J |
| 22 | 376 | 5.2 | 25 | J | 7.0 | -8 | 77 | 1.6 | 6.3 | 2.7 | 1 | J |
| 23 | 374 | 5.4 | 21 | J | 7.0 | -11 | 78 | 1.4 | 6.3 | 2.5 | 1 | J |
| 24 | 369 | 4.0 | 0 | C | 7.1 | -20 | 75 | 1.7 | 6.7 | 1.5 | 1 | C |

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## FEB. 21, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 365 | 4.7 | 0 | C | 7.0 | -17 | 77 | 1.5 | 6.5 | 1.7 | 1 | C |
| 2 | | | | | | | | | | | | |
| 3 | 352 | 4.8 | 0 | C | 6.8 | 9 | 90 | -0.1 | 5.3 | 4.0 | 1 | C |
| 4 | 343 | 6.2 | 0 | C | 6.5 | 10 | 101 | -1.2 | 5.1 | 3.7 | 1 | C |
| 5 | | | | | | | | | | | | |
| 6 | 355 | 8.9 | 0 | C | 4.6 | -67 | 268 | -0.1 | -0.3 | -4.1 | 2 | C |
| 7 | 350 | 9.4 | 0 | C | 3.8 | -12 | 220 | -2.2 | -1.6 | -1.1 | 2 | C |
| 8 | 353 | 10.1 | 85 | J | 3.9 | -14 | 164 | -3.3 | 1.1 | -0.6 | 2 | J |
| 9 | 355 | 10.7 | 77 | J | 4.2 | -10 | 191 | -3.4 | -0.5 | -0.7 | 2 | J |
| 10 | 362 | 11.2 | 63 | J | 4.9 | -17 | 127 | -1.9 | 2.7 | -0.5 | 4 | J |
| 11 | 380 | 10.7 | 30 | J | 5.6 | -49 | 86 | 0.2 | 4.2 | -3.4 | 1 | J |
| 12 | 354 | 11.1 | 0 | C | 5.9 | 1 | 138 | -3.6 | 3.2 | 0.6 | 2 | C |
| 13 | 351 | 10.0 | 55 | J | 6.6 | 21 | 130 | -3.9 | 4.1 | 3.1 | 1 | J |
| 14 | 342 | 9.7 | 39 | J | 6.9 | 21 | 146 | -5.2 | 2.9 | 3.1 | 2 | J |
| 15 | 339 | 9.6 | 35 | J | 7.1 | 29 | 150 | -5.3 | 2.1 | 4.1 | 1 | J |
| 16 | 336 | 9.9 | 27 | J | 7.5 | 29 | 153 | -5.6 | 1.7 | 4.2 | 2 | J |
| 17 | 332 | 9.9 | 24 | J | 7.0 | 8 | 156 | -6.2 | 2.3 | 1.9 | 1 | J |
| 18 | 341 | 9.8 | 23 | J | 7.4 | 26 | 130 | -4.2 | 3.3 | 4.8 | 2 | J |
| 19 | 335 | 9.7 | 21 | J | 7.2 | 13 | 130 | -4.3 | 4.0 | 3.6 | 2 | J |
| 20 | 344 | 9.5 | 27 | J | 7.1 | 14 | 110 | -2.0 | 4.2 | 3.9 | 3 | J |
| 21 | 353 | 9.7 | 26 | J | 7.2 | 46 | 101 | -0.9 | 1.5 | 6.7 | 2 | J |
| 22 | 343 | 11.7 | 0 | C | 7.2 | -12 | 102 | -1.4 | 6.3 | 2.2 | 2 | C |
| 23 | 335 | 10.6 | 0 | C | 8.6 | 5 | 114 | -3.4 | 6.1 | 4.8 | 2 | C |
| 24 | 348 | 9.1 | 31 | J | 9.2 | 22 | 133 | -5.7 | 3.3 | 6.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 7.7 | 118 | J | 12.8 | 24 | 316 | 8.3 | -9.5 | 0.1 | 2 | J |
| 2 | 408 | 10.3 | 121 | J | 12.3 | 46 | 322 | 6.5 | -8.7 | 4.7 | 4 | J |
| 3 | 408 | 13.1 | 0 | C | 13.1 | 52 | 310 | 5.0 | -9.9 | 5.9 | 4 | C |
| 4 | 404 | 12.8 | 0 | C | 12.3 | 44 | 289 | 2.7 | -10.4 | 3.7 | 4 | C |
| 5 | 400 | 15.4 | 0 | C | 10.6 | 34 | 297 | 3.7 | -8.7 | 2.2 | 4 | C |
| 6 | 400 | 15.1 | 0 | C | 9.3 | 39 | 333 | 5.8 | -4.7 | 4.1 | 3 | C |
| 7 | 406 | 12.3 | 87 | J | 7.7 | 38 | 359 | 5.4 | -1.3 | 4.0 | 1 | J |
| 8 | 411 | 11.5 | 93 | J | 7.4 | 50 | 322 | 3.6 | -4.1 | 4.7 | 2 | J |
| 9 | 412 | 10.7 | 80 | J | 7.0 | 39 | 305 | 3.0 | -5.0 | 3.3 | 2 | J |
| 10 | 403 | 10.1 | 73 | J | 7.3 | 36 | 316 | 4.0 | -4.6 | 3.3 | 2 | J |
| 11 | 406 | 11.4 | 0 | C | 7.4 | 35 | 306 | 3.5 | -5.5 | 3.3 | 1 | C |
| 12 | 412 | 13.2 | 0 | C | 6.2 | 40 | 231 | -2.1 | -3.0 | 2.3 | 4 | C |
| 13 | 437 | 16.4 | 0 | C | 6.4 | 32 | 203 | -4.6 | -2.5 | 2.7 | 2 | C |
| 14 | 447 | 16.8 | 0 | C | 7.5 | 35 | 216 | -4.4 | -4.0 | 3.0 | 3 | C |
| 15 | 444 | 15.5 | 69 | J | 8.2 | 27 | 252 | -2.2 | -7.4 | 1.8 | 2 | J |
| 16 | 447 | 15.3 | 72 | J | 9.0 | 1 | 265 | -0.8 | -8.2 | -2.4 | 3 | J |
| 17 | 442 | 14.6 | 0 | C | 8.7 | 23 | 255 | -1.6 | -6.5 | 0.4 | 5 | C |
| 18 | 450 | 11.0 | 141 | J | 9.2 | 73 | 280 | 0.4 | -5.4 | 6.4 | 4 | J |
| 19 | 464 | 13.0 | 93 | J | 10.0 | 80 | 257 | -0.4 | -5.6 | 7.8 | 3 | J |
| 20 | 440 | 14.0 | 0 | C | 10.2 | 85 | 320 | 0.7 | -5.3 | 8.5 | 1 | C |
| 21 | 444 | 16.5 | 0 | C | 10.4 | 78 | 108 | -0.6 | -3.4 | 9.4 | 2 | C |
| 22 | 448 | 23.7 | 62 | J | 10.0 | 3 | 89 | 0.2 | 7.7 | 5.4 | 3 | J |
| 23 | 437 | 28.1 | 74 | J | 9.3 | 20 | 105 | -2.2 | 5.1 | 7.0 | 3 | J |
| 24 | 438 | 24.3 | 59 | J | 10.7 | 78 | 126 | -1.3 | -4.1 | 9.5 | 2 | J |

## FEB. 25, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 10.3 | 0 | C | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 413 | 8.9 | 0 | C | | | | | | | | |
| 7 | 413 | 8.9 | 0 | C | 11.4 | -24 | 284 | 2.5 | -7.9 | -7.1 | 2 | C |
| 8 | 419 | 9.3 | 0 | C | 10.9 | -31 | 296 | 3.8 | -6.3 | -6.9 | 4 | C |
| 9 | 417 | 9.9 | 0 | C | 10.9 | -34 | 291 | 3.1 | -6.5 | -7.2 | 3 | C |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 431 | 7.5 | 0 | C | 6.9 | 1 | 272 | 0.3 | -6.7 | -1.7 | 0 | C |
| 16 | 431 | 7.5 | 0 | C | 6.7 | -21 | 280 | 1.0 | -4.5 | -3.7 | 3 | C |
| 17 | 428 | 7.0 | 0 | C | 6.2 | -7 | 333 | 4.6 | -2.0 | -1.4 | 3 | C |
| 18 | 423 | 6.6 | 0 | C | 6.7 | -4 | 299 | 2.9 | -4.5 | -2.4 | 2 | C |
| 19 | 421 | 6.3 | 0 | C | 7.1 | 29 | 283 | 1.3 | -6.3 | 0.4 | 3 | C |
| 20 | 426 | 5.8 | 0 | C | 7.2 | -28 | 292 | 2.1 | -3.0 | -4.9 | 3 | C |
| 21 | 407 | 5.7 | 0 | C | 7.3 | 8 | 309 | 4.4 | -5.2 | -1.9 | 1 | C |
| 22 | 416 | 6.3 | 0 | C | 7.2 | 3 | 288 | 2.0 | -5.4 | -3.1 | 3 | C |
| 23 | 428 | 6.6 | 0 | C | 7.2 | -29 | 293 | 2.2 | -2.5 | -5.4 | 3 | C |
| 24 | 421 | 6.5 | 0 | C | 7.2 | -6 | 304 | 3.2 | -3.7 | -3.2 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 418 | 7.4 | 0 | C | 9.7 | 0 | 316 | 6.8 | -5.7 | -3.2 | 2 | C |
| 2 | 417 | 7.9 | 0 | C | 10.2 | 8 | 323 | 7.6 | -5.6 | -1.8 | 3 | C |
| 3 | 417 | 7.9 | 0 | C | 9.6 | 6 | 310 | 5.8 | -6.4 | -2.6 | 2 | C |
| 4 | 419 | 7.9 | 0 | C | 9.5 | -3 | 340 | 8.5 | -2.5 | -1.8 | 3 | C |
| 5 | 421 | 8.3 | 0 | C | 9.9 | 16 | 320 | 6.6 | -6.0 | 0.1 | 3 | C |
| 6 | 421 | 8.8 | 0 | C | 10.0 | -11 | 318 | 6.5 | -4.9 | -3.6 | 4 | C |
| 7 | 418 | 8.9 | 0 | C | 10.4 | -11 | 316 | 6.8 | -5.7 | -3.6 | 3 | C |
| 8 | 417 | 8.1 | 0 | C | 10.7 | -9 | 329 | 8.3 | -4.5 | -2.7 | 4 | C |
| 9 | 439 | 6.9 | 0 | C | 10.4 | -27 | 325 | 7.0 | -3.9 | -5.3 | 3 | C |
| 10 | 462 | 6.0 | 0 | C | 10.2 | -8 | 325 | 7.6 | -4.9 | -2.3 | 3 | C |
| 11 | 485 | 5.8 | 0 | C | 9.8 | -15 | 331 | 8.2 | -4.0 | -3.3 | 1 | C |
| 12 | 518 | 5.3 | 0 | C | 9.6 | 3 | 322 | 7.4 | -5.6 | -0.6 | 2 | C |
| 13 | 551 | 4.4 | 0 | C | 9.8 | 13 | 319 | 7.1 | -6.4 | 0.9 | 1 | C |
| 14 | 580 | 3.9 | 0 | C | 9.4 | 10 | 321 | 6.5 | -5.5 | 0.3 | 3 | C |
| 15 | 589 | 3.7 | 0 | C | 9.0 | -3 | 313 | 5.7 | -5.8 | -2.1 | 2 | C |
| 16 | 579 | 3.6 | 0 | C | 9.1 | 18 | 314 | 5.5 | -6.1 | 0.7 | 3 | C |
| 17 | 571 | 3.7 | 0 | C | | | | | | | | |
| 18 | 576 | 3.6 | 0 | C | 8.6 | 58 | 314 | 2.5 | -4.7 | 4.2 | 5 | C |
| 19 | 576 | 3.6 | 0 | C | 8.5 | 17 | 321 | 4.9 | -4.4 | -0.1 | 5 | C |
| 20 | 564 | 3.6 | 0 | C | 8.1 | -19 | 310 | 4.6 | -3.5 | -4.8 | 3 | C |
| 21 | 558 | 3.5 | 0 | C | 7.8 | -5 | 352 | 7.2 | -0.5 | -1.0 | 2 | C |
| 22 | 558 | 3.5 | 0 | C | 7.6 | -22 | 325 | 4.9 | -1.5 | -3.9 | 3 | C |
| 23 | 558 | 3.5 | 0 | C | 7.8 | 5 | 292 | 2.7 | -6.0 | -3.2 | 2 | C |
| 24 | 549 | 3.3 | 0 | C | 7.6 | 13 | 285 | 1.7 | -6.0 | -2.2 | 3 | C |

## FEB. 22, 1981

53

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 328 | 8.5 | 0 | C | 9.7 | 29 | 132 | -5.6 | 2.8 | 7.2 | 1 | C |
| 315 | 8.3 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| 347 | 9.4 | 0 | C | | | | | | | | |
| 347 | 9.4 | 0 | C | 8.9 | 47 | 97 | -0.8 | 3.1 | 8.2 | 1 | C |
| 339 | 8.7 | 0 | C | 8.4 | 41 | 87 | 0.4 | 4.1 | 7.0 | 2 | C |
| 333 | 10.4 | 0 | C | 8.8 | 53 | 112 | -2.0 | 2.8 | 8.0 | 1 | C |
| 335 | 12.1 | 15 | J | 8.1 | 55 | 100 | -0.8 | 2.9 | 7.4 | 1 | J |
| 336 | 13.7 | 17 | J | 8.2 | 69 | 101 | -0.5 | 1.3 | 7.9 | 2 | J |
| 337 | 17.4 | 19 | J | 8.3 | 72 | 105 | -0.6 | 1.0 | 7.8 | 2 | J |
| 316 | 11.0 | 0 | C | 8.7 | 67 | 90 | -0.0 | 1.9 | 8.2 | 1 | C |
| 329 | 13.6 | 0 | C | | | | | | | | |
| 317 | 14.8 | 27 | J | 8.6 | 59 | 22 | 4.1 | 0.2 | 7.6 | 1 | J |
| 321 | 17.5 | 35 | J | 8.8 | 60 | 25 | 4.0 | 0.2 | 7.8 | 1 | J |
| 315 | 18.9 | 31 | J | 9.0 | 62 | 13 | 4.1 | -1.1 | 7.9 | 1 | J |
| 310 | 18.8 | 20 | J | 9.2 | 60 | 13 | 4.5 | -1.4 | 7.9 | 1 | J |
| 306 | 24.2 | 27 | J | 6.6 | 68 | 61 | 1.1 | -0.1 | 5.7 | 3 | J |
| 317 | 26.2 | 24 | J | 5.0 | 44 | 344 | 1.7 | -1.1 | 1.3 | 4 | J |
| 327 | 20.2 | 26 | J | 6.4 | 67 | 31 | 1.9 | -1.3 | 5.3 | 3 | J |
| 331 | 22.1 | 28 | J | 6.2 | 15 | 321 | 3.9 | -3.4 | -0.3 | 3 | J |
| 341 | 27.6 | 35 | J | 7.7 | -52 | 289 | 1.4 | -0.7 | -7.0 | 2 | J |
| 350 | 31.2 | 62 | J | 7.7 | -52 | 306 | 2.2 | -0.0 | -5.7 | 5 | J |
| 348 | 34.8 | 0 | C | 9.8 | -31 | 317 | 5.7 | -2.0 | -6.9 | 3 | C |
| 351 | 37.8 | 0 | C | 8.7 | -32 | 322 | 4.5 | -1.0 | -4.8 | 5 | C |

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55

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 434 | 21.1 | 58 | J | 11.0 | 69 | 118 | -1.8 | -2.5 | 10.4 | 1 | J |
| 452 | 33.3 | 0 | C | 10.0 | 88 | 48 | 0.2 | -4.6 | 8.1 | 3 | C |
| 463 | 34.3 | 0 | C | 12.3 | 60 | 118 | -2.8 | -0.2 | 11.4 | 3 | C |
| 463 | 31.8 | 0 | C | 11.0 | 52 | 142 | -5.3 | 0.1 | 9.4 | 2 | C |
| 450 | 25.2 | 0 | C | 10.8 | 69 | 116 | -1.6 | -0.7 | 10.1 | 3 | C |
| 447 | 23.3 | 0 | C | 10.8 | 80 | 58 | 0.9 | -1.9 | 9.7 | 4 | C |
| 418 | 13.2 | 28 | J | 12.8 | 42 | 317 | 7.0 | -8.7 | 6.4 | 1 | J |
| 423 | 12.8 | 26 | J | 12.1 | 42 | 310 | 5.8 | -8.6 | 6.2 | 1 | J |
| 415 | 18.8 | 22 | J | 11.3 | 38 | 303 | 4.8 | -8.7 | 5.2 | 1 | J |
| 411 | 23.1 | 18 | J | 10.5 | 36 | 313 | 5.6 | -7.0 | 4.7 | 3 | J |
| 410 | 28.3 | 17 | J | 10.1 | 40 | 309 | 4.7 | -6.8 | 5.2 | 3 | J |
| 396 | 26.9 | 18 | J | 11.0 | 28 | 302 | 5.1 | -8.9 | 3.6 | 1 | J |
| 400 | 15.8 | 20 | J | 11.4 | 18 | 305 | 6.0 | -9.2 | 1.7 | 2 | J |
| 383 | 12.5 | 0 | C | 12.2 | -2 | 303 | 6.4 | -9.6 | -2.6 | 2 | C |
| 378 | 9.9 | 0 | C | 12.2 | -24 | 314 | 7.5 | -6.2 | -6.6 | 3 | C |
| 381 | 8.8 | 0 | C | 12.0 | -12 | 310 | 7.3 | -7.6 | -4.8 | 3 | C |
| 386 | 7.3 | 0 | C | 12.1 | -32 | 318 | 7.4 | -4.0 | -8.2 | 2 | C |
| 381 | 8.2 | 0 | C | 12.3 | -37 | 327 | 8.2 | -1.9 | -8.9 | 0 | C |
| 394 | 11.2 | 0 | C | 11.5 | -18 | 314 | 7.2 | -5.2 | -6.3 | 3 | C |
| 402 | 10.9 | 0 | C | 11.2 | -22 | 310 | 6.4 | -4.8 | -7.2 | 3 | C |
| 393 | 9.6 | 0 | C | 11.7 | -33 | 325 | 7.9 | -1.5 | -8.1 | 2 | C |
| 407 | 9.2 | 0 | C | 11.1 | -40 | 320 | 6.3 | -0.8 | -8.6 | 3 | C |
| 415 | 9.3 | 0 | C | 10.3 | -24 | 316 | 6.6 | -3.1 | -6.8 | 2 | C |
| 416 | 9.6 | 0 | C | 10.6 | -23 | 317 | 6.9 | -3.1 | -6.9 | 3 | C |

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57

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 404 | 6.5 | 0 | C | 6.9 | -7 | 318 | 4.6 | -3.1 | -2.8 | 3 | C |
| 414 | 6.8 | 0 | C | 7.0 | -11 | 304 | 3.5 | -3.7 | -3.6 | 2 | C |
| 417 | 7.1 | 0 | C | 7.3 | -23 | 282 | 1.2 | -3.7 | -4.7 | 3 | C |
| 417 | 7.2 | 0 | C | 7.2 | -28 | 286 | 1.6 | -3.7 | -5.3 | 2 | C |
| 413 | 7.0 | 0 | C | 7.4 | -22 | 290 | 2.2 | -4.5 | -4.6 | 3 | C |
| 407 | 6.6 | 0 | C | 7.9 | -15 | 305 | 4.0 | -4.8 | -3.7 | 3 | C |
| 409 | 6.5 | 0 | C | 8.1 | -7 | 312 | 5.2 | -5.4 | -2.7 | 1 | C |
| 420 | 6.6 | 0 | C | 7.7 | -7 | 311 | 4.7 | -5.1 | -2.3 | 2 | C |
| 451 | 6.8 | 0 | C | 7.5 | -3 | 310 | 4.3 | -5.0 | -1.5 | 3 | C |
| 468 | 7.0 | 0 | C | 8.1 | 3 | 312 | 4.7 | -5.1 | -0.6 | 3 | C |
| 464 | 7.0 | 0 | C | 8.3 | -16 | 295 | 2.7 | -5.4 | -2.8 | 4 | C |
| 457 | 6.7 | 0 | C | 8.7 | -17 | 300 | 3.5 | -5.6 | -3.2 | 4 | C |
| 445 | 6.3 | 0 | C | 9.2 | -2 | 307 | 4.6 | -6.0 | -1.5 | 4 | C |
| 432 | 6.1 | 0 | C | 9.3 | 10 | 316 | 6.2 | -6.1 | 0.1 | 3 | C |
| 432 | 6.4 | 0 | C | 9.2 | -13 | 310 | 5.1 | -5.4 | -3.4 | 3 | C |
| 437 | 6.4 | 0 | C | 9.8 | 8 | 292 | 3.1 | -7.8 | -1.3 | 4 | C |
| | | | | 9.7 | 33 | 289 | 2.5 | -8.4 | 2.1 | 3 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 437 | 7.7 | 0 | C | 9.4 | 9 | 309 | 5.8 | -7.0 | -2.1 | 0 | C |
| 437 | 7.7 | 0 | C | 9.4 | -50 | 348 | 4.9 | 2.1 | -5.6 | 5 | C |
| 428 | 7.9 | 0 | C | 10.1 | -10 | 330 | 6.4 | -2.4 | -3.1 | 6 | C |
| 425 | 7.8 | 0 | C | 10.3 | 15 | 313 | 6.4 | -7.1 | -1.6 | 3 | C |
| 414 | 7.5 | 0 | C | 9.7 | -7 | 331 | 6.6 | -2.5 | -2.8 | 5 | C |

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59

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 519 | 3.4 | 0 | C | 7.7 | -13 | 316 | 4.5 | -2.8 | -3.6 | 4 | C |
| 517 | 3.2 | 0 | C | 7.9 | -4 | 317 | 5.1 | -3.8 | -2.9 | 3 | C |
| 526 | 2.7 | 0 | C | 7.3 | 27 | 294 | 2.6 | -6.7 | 0.1 | 1 | C |
| 520 | 2.6 | 0 | C | 6.3 | 17 | 288 | 1.9 | -5.8 | -0.9 | 1 | C |
| 519 | 2.6 | 0 | C | 5.4 | 6 | 0 | 5.2 | -0.2 | 0.5 | 1 | C |
| 519 | 3.1 | 0 | C | 5.2 | 5 | 296 | 1.7 | -3.3 | -0.8 | 3 | C |
| 515 | 3.3 | 0 | C | 5.2 | 8 | 334 | 3.4 | -1.7 | 0.0 | 3 | C |
| 498 | 3.3 | 0 | C | 5.0 | 20 | 254 | -0.9 | -3.2 | 0.4 | 3 | C |
| 469 | 4.0 | 0 | C | 4.9 | 13 | 246 | -1.3 | -2.9 | 0.1 | 4 | C |
| 431 | 4.4 | 0 | C | 4.9 | -24 | 304 | 2.4 | -3.2 | -2.6 | 1 | C |
| 448 | 3.8 | 0 | C | 4.8 | -6 | 328 | 3.8 | -2.3 | -0.9 | 1 | C |
| 459 | 3.7 | 0 | C | 4.7 | -4 | 339 | 4.1 | -1.5 | -0.6 | 1 | C |
| 410 | 4.6 | 0 | C | 4.6 | 14 | 330 | 3.8 | -2.3 | 0.6 | 1 | C |
| 409 | 4.7 | 0 | C | 4.6 | 9 | 326 | 3.7 | -2.5 | 0.1 | 1 | C |
| 410 | 4.5 | 0 | C | 4.5 | -4 | 283 | 0.8 | -3.4 | -1.3 | 2 | C |
| 418 | 4.5 | 0 | C | 4.7 | 1 | 260 | -0.7 | -3.8 | -1.2 | 2 | C |
| 421 | 4.9 | 0 | C | 4.8 | 30 | 259 | -0.7 | -4.3 | 0.7 | 2 | C |
| 425 | 4.8 | 0 | C | 4.8 | -4 | 249 | -1.6 | -3.6 | -2.0 | 2 | C |
| 436 | 4.6 | 0 | C | 4.9 | 9 | 243 | -2.0 | -3.9 | -1.2 | 2 | C |
| 436 | 4.6 | 0 | C | 4.7 | -14 | 237 | -2.4 | -2.7 | -2.8 | 1 | C |
| 421 | 4.7 | 0 | C | 4.9 | -39 | 249 | -1.3 | -1.3 | -4.4 | 1 | C |
| 409 | 4.9 | 0 | C | 4.7 | -44 | 246 | -1.2 | -0.7 | -3.9 | 2 | C |
| 403 | 4.9 | 0 | C | 4.7 | -17 | 265 | -0.3 | -2.4 | -3.0 | 2 | C |
| 396 | 4.8 | 0 | C | 4.6 | 4 | 263 | -0.4 | -3.1 | -1.7 | 2 | C |

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60

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 387 | 4.9 | 0 | C | 4.9 | -8 | 330 | 3.7 | -1.5 | -1.7 | 2 | C |
| 2 | 418 | 5.1 | 0 | C | 4.4 | -63 | 329 | 1.6 | 1.0 | -3.5 | 2 | C |
| 3 | 410 | 5.5 | 0 | C | 4.4 | -26 | 322 | 2.9 | -1.1 | -2.7 | 1 | C |
| 4 | 410 | 5.8 | 0 | C | 4.4 | -22 | 326 | 3.1 | -1.2 | -2.3 | 2 | C |
| 5 | 402 | 6.1 | 0 | C | 4.4 | 28 | 283 | 0.8 | -3.9 | 0.4 | 2 | C |
| 6 | 398 | 6.2 | 0 | C | 4.5 | 44 | 291 | 1.0 | -3.6 | 1.7 | 2 | C |
| 7 | 403 | 6.4 | 0 | C | 4.4 | 27 | 278 | 0.4 | -3.7 | 0.6 | 2 | C |
| 8 | 483 | 16.2 | 0 | C | 9.1 | 27 | 320 | 5.1 | -4.9 | 2.2 | 6 | C |
| 9 | 531 | 22.4 | 0 | C | 15.0 | 1 | 292 | 4.9 | -12.1 | -2.4 | 5 | C |
| 10 | 509 | 20.9 | 0 | C | 15.4 | -6 | 294 | 6.0 | -12.6 | -4.1 | 4 | C |
| 11 | 491 | 19.0 | 0 | C | 14.1 | -1 | 300 | 6.7 | -11.5 | -2.3 | 3 | C |
| 12 | 469 | 17.2 | 0 | C | 12.4 | -22 | 290 | 3.5 | -8.7 | -6.0 | 5 | C |
| 13 | 444 | 14.8 | 0 | C | 13.8 | -36 | 308 | 6.0 | -6.1 | -8.5 | 6 | C |
| 14 | 445 | 12.9 | 0 | C | 13.6 | -8 | 300 | 6.2 | -10.1 | -4.2 | 5 | C |
| 15 | 435 | 10.2 | 0 | C | 12.4 | 16 | 303 | 5.9 | -9.5 | 0.5 | 5 | C |
| 16 | 426 | 5.5 | 0 | C | 13.5 | -2 | 304 | 7.2 | -10.2 | -3.8 | 3 | C |
| 17 | 424 | 3.5 | 0 | C | 13.9 | 0 | 307 | 8.3 | -10.3 | -4.0 | 2 | C |
| 18 | 429 | 4.7 | 0 | C | 13.2 | 0 | 304 | 7.2 | -9.7 | -4.3 | 3 | C |
| 19 | 427 | 6.2 | 0 | C | 12.4 | 16 | 297 | 5.2 | -10.5 | -1.7 | 3 | C |
| 20 | 428 | 6.3 | 0 | C | 12.1 | 51 | 299 | 3.6 | -10.2 | 4.9 | 2 | C |
| 21 | 428 | 6.4 | 0 | C | 11.7 | 58 | 313 | 3.6 | -7.9 | 5.4 | 6 | C |
| 22 | 435 | 7.3 | 0 | C | 12.0 | -27 | 305 | 6.0 | -4.3 | -9.1 | 2 | C |
| 23 | 442 | 7.5 | 0 | C | 11.4 | -11 | 307 | 6.6 | -6.1 | -6.6 | 2 | C |
| 24 | 446 | 6.8 | 0 | C | 10.9 | -5 | 307 | 6.4 | -6.6 | -5.5 | 1 | C |

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61

| | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 441 | 6.4 | 0 | C | 11.0 | -1 | 312 | 6.4 | -5.9 | -4.1 | 5 | C |
| | 438 | 5.6 | 0 | C | 11.0 | -1 | 307 | 6.5 | -7.2 | -4.6 | 2 | C |
| | 463 | 3.5 | 103 | L | 10.7 | -2 | 309 | 6.1 | -6.4 | -4.0 | 3 | J |
| | 459 | 4.2 | 116 | L | 9.8 | 13 | 315 | 6.1 | -6.4 | -0.9 | 3 | J |
| | 484 | 5.6 | 0 | C | 9.4 | 16 | 308 | 5.2 | -7.1 | -0.4 | 3 | J |
| | 479 | 5.8 | 0 | C | 9.0 | 18 | 317 | 4.6 | -4.8 | 0.4 | 5 | C |
| | 515 | 7.6 | 0 | C | 9.3 | 34 | 318 | 4.9 | -5.6 | 2.9 | 5 | J |
| | 547 | 10.2 | 0 | C | 15.4 | -2 | 289 | 4.4 | -12.4 | -3.8 | 7 | J |
| | 548 | 9.5 | 231 | L | 13.8 | -23 | 303 | 5.5 | -7.3 | -6.0 | 8 | J |
| | 550 | 6.9 | 216 | L | 13.6 | -41 | 308 | 5.5 | -5.4 | -9.1 | 6 | J |
| | 553 | 8.1 | 0 | C | 11.3 | -39 | 324 | 6.4 | -3.4 | -7.2 | 5 | J |
| | 541 | 7.5 | 0 | C | 11.7 | -38 | 10 | 8.7 | 2.7 | -6.4 | 3 | C |
| | 537 | 7.2 | 249 | J | 10.7 | -34 | 12 | 8.6 | 3.0 | -5.4 | 1 | J |
| | 526 | 7.8 | 0 | C | 10.2 | -12 | 20 | 8.9 | 3.6 | -1.1 | 3 | C |
| | 515 | 7.9 | 0 | C | 9.2 | 25 | 29 | 6.7 | 2.7 | 4.5 | 3 | C |
| | 503 | 7.7 | 0 | C | 8.9 | 17 | 8 | 8.1 | 0.3 | 2.8 | 2 | C |
| | 512 | 7.4 | 114 | J | 8.3 | 23 | 25 | 6.2 | 1.6 | 3.7 | 3 | J |
| | 500 | 6.8 | 95 | J | 8.3 | 4 | 19 | 6.6 | 1.9 | 1.4 | 4 | J |
| | 479 | 6.4 | 88 | J | 7.9 | -13 | 352 | 7.4 | -0.1 | -2.0 | 2 | J |
| | 453 | 5.7 | 0 | C | 7.8 | -5 | 355 | 7.7 | -0.2 | -0.9 | 1 | C |
| | 449 | 5.5 | 0 | C | 6.4 | 11 | 349 | 2.6 | -0.7 | 0.2 | 6 | J |
| | 441 | 5.1 | 0 | C | 6.9 | -1 | 360 | 6.8 | 0.1 | -0.1 | 1 | J |
| | 430 | 5.0 | 0 | C | 6.3 | -8 | 357 | 5.3 | 0.2 | -0.8 | 3 | J |
| | 422 | 4.8 | 0 | C | 5.6 | -8 | 346 | 5.2 | -0.7 | -1.3 | 1 | J |

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62

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 4.5 | 0 | C | 5.7 | 4 | 337 | 5.2 | -2.1 | -0.9 | 1 | C |
| 2 | 415 | 4.5 | 0 | C | 5.6 | 4 | 339 | 5.2 | -2.0 | -0.7 | 0 | C |
| 3 | 452 | 3.6 | 48 | J | 5.2 | 10 | 350 | 4.8 | -1.2 | 0.3 | 1 | J |
| 4 | 448 | 3.4 | 0 | C | 5.3 | 10 | 346 | 5.0 | -1.5 | 0.3 | 1 | C |
| 5 | 433 | 3.4 | 0 | C | 4.9 | 4 | 348 | 4.7 | -1.1 | -0.1 | 0 | C |
| 6 | 422 | 3.9 | 0 | C | 4.9 | 10 | 350 | 4.6 | -1.1 | 0.5 | 1 | C |
| 7 | 436 | 4.0 | 0 | C | 5.2 | 14 | 344 | 4.6 | -1.7 | 0.8 | 1 | C |
| 8 | 465 | 4.2 | 0 | C | 6.0 | 44 | 330 | 3.6 | -3.0 | 3.3 | 2 | C |
| 9 | 477 | 4.4 | 0 | C | 6.8 | 47 | 293 | 1.8 | -5.2 | 3.8 | 1 | C |
| 10 | 473 | 4.1 | 0 | C | 6.7 | 40 | 321 | 4.0 | -3.9 | 3.5 | 1 | C |
| 11 | 464 | 4.2 | 0 | C | 6.5 | 20 | 343 | 5.5 | -2.0 | 1.7 | 2 | C |
| 12 | 442 | 5.3 | 63 | J | 6.2 | 7 | 323 | 4.6 | -3.5 | 0.0 | 2 | J |
| 13 | 421 | 4.0 | 43 | J | 5.7 | 8 | 352 | 5.4 | -0.9 | 0.6 | 1 | J |
| 14 | 420 | 4.9 | 42 | J | 6.6 | 8 | 346 | 6.2 | -1.7 | 0.5 | 1 | J |
| 15 | 453 | 5.0 | 39 | J | 7.4 | 6 | 334 | 6.4 | -3.2 | -0.1 | 2 | J |
| 16 | 456 | 4.3 | 31 | J | 7.7 | 3 | 345 | 7.3 | -2.0 | -0.3 | 0 | J |
| 17 | 410 | 5.6 | 0 | C | 7.0 | -20 | 339 | 6.1 | -1.3 | -3.1 | 1 | C |
| 18 | 416 | 5.9 | 35 | J | 7.2 | -27 | 351 | 6.2 | 0.4 | -3.3 | 1 | J |
| 19 | 417 | 5.3 | 32 | J | 6.7 | -22 | 352 | 6.0 | 0.4 | -2.6 | 2 | J |
| 20 | 414 | 4.8 | 32 | J | 6.1 | -8 | 337 | 5.4 | -1.6 | -1.9 | 2 | J |
| 21 | 407 | 4.8 | 0 | C | 6.6 | -23 | 350 | 5.7 | 0.4 | -2.6 | 2 | J |
| 22 | 418 | 5.0 | 0 | C | 7.1 | -22 | 9 | 6.3 | 2.3 | -1.6 | 2 | J |
| 23 | 412 | 5.7 | 0 | C | 6.8 | -30 | 359 | 5.5 | 1.7 | -2.7 | 2 | J |
| 24 | 402 | 5.7 | 0 | C | 6.6 | -48 | 355 | 4.3 | 2.4 | -4.2 | 1 | J |

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63

| | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 404 | 5.6 | 0 | C | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | 395 | 7.3 | 24 | J | 7.5 | -9 | 360 | 7.1 | 0.3 | -1.1 | 2 | J |
| | 385 | 7.4 | 29 | J | 7.3 | -15 | 357 | 6.9 | 0.1 | -1.9 | 1 | J |
| | 390 | 7.4 | 30 | J | 7.3 | -23 | 347 | 6.4 | -0.8 | -3.0 | 2 | J |
| | 379 | 7.3 | 29 | J | 7.3 | -13 | 357 | 6.7 | -0.0 | -1.6 | 2 | J |
| | 378 | 6.9 | 26 | J | 7.1 | 1 | 357 | 6.8 | -0.4 | 0.0 | 2 | J |
| | 377 | 6.9 | 22 | J | 6.8 | 8 | 4 | 6.6 | 0.3 | 1.0 | 1 | J |
| | 370 | 5.9 | 18 | J | 6.1 | 1 | 6 | 6.1 | 0.6 | 0.2 | 0 | J |
| | 373 | 5.6 | 19 | J | 6.2 | -7 | 19 | 5.6 | 2.1 | -0.2 | 2 | J |
| | 371 | 5.3 | 20 | J | 6.0 | 2 | 24 | 5.4 | 2.2 | 0.9 | 1 | J |
| | 379 | 4.9 | 0 | C | 6.0 | -25 | 24 | 4.8 | 2.8 | -1.7 | 1 | C |
| | 371 | 4.6 | 0 | C | 6.0 | -22 | 36 | 4.4 | 3.7 | -0.9 | 1 | C |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | 375 | 3.9 | 0 | C | 6.0 | -2 | 22 | 5.6 | 2.1 | 0.9 | 0 | C |
| | 356 | 4.8 | 32 | J | 6.8 | -11 | 20 | 6.1 | 2.5 | 0.1 | 2 | J |
| | 374 | 5.9 | 21 | J | 7.1 | -21 | 32 | 5.1 | 3.9 | -0.2 | 3 | J |
| | 402 | 6.7 | 24 | J | 6.9 | -2 | 78 | 1.4 | 5.6 | 3.5 | 1 | J |
| | 428 | 8.7 | 89 | J | 8.2 | 9 | 73 | 2.3 | 5.6 | 5.3 | 2 | J |

MAR. 5, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 6.7 | 24 | J | 8.5 | -6 | 62 | 3.8 | 6.5 | 3.2 | 2 | J |
| 2 | 389 | 6.6 | 33 | J | 8.4 | -10 | 52 | 5.0 | 6.2 | 2.2 | 2 | J |
| 3 | | | | | 9.0 | -24 | 33 | 6.7 | 5.5 | -1.0 | 3 | J |
| 4 | 401 | 6.0 | 96 | J | 10.1 | -30 | 356 | 8.3 | 1.6 | -4.6 | 3 | J |
| 5 | 399 | 8.2 | 0 | C | | | | | | | | |
| 6 | 574 | 29.4 | 943 | J | 19.9 | -17 | 327 | 6.2 | -3.0 | -3.6 | 18 | C |
| 7 | 598 | 35.0 | 0 | C | 21.2 | 9 | 65 | 8.4 | 16.6 | 8.7 | 5 | C |
| 8 | 645 | 38.4 | 0 | C | 13.4 | -2 | 296 | 3.2 | -6.3 | -2.0 | 10 | C |
| 9 | 645 | 38.4 | 0 | C | 20.6 | -38 | 46 | 10.1 | 12.8 | -8.9 | 7 | C |
| 10 | 625 | 29.6 | 0 | C | 28.6 | -58 | 218 | -8.6 | -3.0 | -18.8 | 19 | C |
| 11 | 615 | 15.0 | 0 | C | 35.0 | -63 | 98 | -2.2 | 20.8 | -26.7 | 5 | C |
| 12 | | | | | | | | | | | | |
| 13 | 629 | 18.9 | 0 | C | 23.6 | -73 | 229 | -3.4 | -0.2 | -17.6 | 14 | C |
| 14 | 629 | 18.9 | 0 | C | 23.1 | -57 | 109 | -1.2 | 4.9 | -4.9 | 21 | C |
| 15 | 596 | 15.7 | 0 | C | 28.0 | -47 | 265 | -1.5 | -12.2 | -24.5 | 5 | C |
| 16 | 593 | 13.1 | 0 | C | 28.1 | -34 | 277 | 2.8 | -16.7 | -22.3 | 2 | C |
| 17 | 584 | 10.7 | 0 | C | | | | | | | | |
| 18 | 593 | 9.3 | 37 | J | 24.7 | -21 | 270 | -0.0 | -17.2 | -17.6 | 3 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 541 | 10.3 | 131 | J | 20.1 | 47 | 298 | 6.1 | -17.3 | 5.1 | 7 | J |
| 24 | 552 | 6.7 | 68 | J | 19.2 | 62 | 307 | 5.4 | -15.4 | 9.9 | 2 | J |

MAR. 6, 1981

65

| | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 553 | 5.0 | 54 | J | 18.6 | 63 | 299 | 4.1 | -15.3 | 9.8 | 1 | J |
| | 550 | 3.4 | 37 | J | 17.9 | 64 | 289 | 2.5 | -14.7 | 9.7 | 1 | J |
| | 551 | 2.2 | 42 | J | 17.0 | 64 | 297 | 3.4 | -13.2 | 10.0 | 1 | J |
| | 541 | 2.6 | 28 | J | 16.3 | 68 | 290 | 2.1 | -11.9 | 10.9 | 1 | J |
| | 550 | 4.5 | 38 | J | 15.4 | 74 | 278 | 0.6 | -9.8 | 11.8 | 1 | J |
| | 420 | 4.5 | 0 | C | 14.8 | 76 | 287 | 1.0 | -8.2 | 12.2 | 1 | C |
| | 541 | 4.7 | 31 | J | 12.9 | 87 | 225 | -0.5 | -4.4 | 12.1 | 1 | J |
| | 537 | 3.6 | 35 | J | 12.7 | 85 | 184 | -1.1 | -3.4 | 12.2 | 1 | J |
| | 536 | 2.1 | 51 | J | 12.2 | 88 | 196 | -0.4 | -2.9 | 11.8 | 1 | J |
| | 393 | 4.0 | 0 | C | 11.9 | 86 | 183 | -0.8 | -2.5 | 11.6 | 0 | C |
| | 363 | 4.1 | 0 | C | 11.4 | 86 | 203 | -0.8 | -2.6 | 11.1 | 1 | C |
| | | | | | | | | | | | | |
| | 277 | 4.5 | 0 | C | 9.8 | 76 | 331 | 1.9 | -2.9 | 8.4 | 3 | C |
| | 447 | 5.0 | 0 | C | 9.4 | 81 | 130 | -0.9 | -1.0 | 8.6 | 3 | C |
| | 422 | 6.2 | 0 | C | 9.0 | 56 | 122 | -2.6 | 2.0 | 8.0 | 2 | C |
| | 422 | 6.2 | 0 | C | 8.6 | 70 | 121 | -1.5 | -0.2 | 8.3 | 2 | C |
| | 407 | 4.5 | 0 | C | 8.1 | 69 | 115 | -1.2 | -0.3 | 7.8 | 2 | C |
| | 472 | 2.1 | 7 | L | 7.7 | 36 | 111 | -2.2 | 3.3 | 6.5 | 1 | J |
| | 481 | 4.4 | 34 | J | 7.5 | 30 | 120 | -3.1 | 3.1 | 5.6 | 2 | J |
| | 471 | 5.4 | 41 | J | 6.7 | 29 | 156 | -4.8 | 0.4 | 3.6 | 3 | J |
| | 477 | 2.1 | 18 | L | 6.6 | 23 | 140 | -4.5 | 1.9 | 4.1 | 2 | J |
| | 491 | 3.0 | 24 | J | 6.4 | 26 | 142 | -4.2 | 1.3 | 4.0 | 2 | J |
| | 500 | 3.5 | 28 | J | 5.7 | 5 | 125 | -2.6 | 2.9 | 2.4 | 3 | J |
| | 516 | 3.4 | 37 | J | 5.4 | -40 | 132 | -2.3 | 3.7 | -1.0 | 3 | J |

MAR. 7, 1981

66

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 492 | 3.0 | 32 | J | 5.5 | 1 | 158 | -4.9 | 1.6 | 1.2 | 1 | J |
| 2 | 504 | 4.5 | 37 | J | 5.7 | 7 | 149 | -4.8 | 2.1 | 2.1 | 0 | J |
| 3 | 528 | 4.6 | 50 | J | 9.4 | 46 | 213 | -4.7 | -5.4 | 3.5 | 4 | C |
| 4 | 546 | 4.8 | 87 | J | 8.5 | 48 | 150 | -3.9 | -0.2 | 5.3 | 5 | C |
| 5 | 505 | 7.6 | 0 | C | 9.1 | 6 | 95 | -0.8 | 7.7 | 4.4 | 1 | C |
| 6 | 506 | 8.1 | 0 | C | 8.6 | 8 | 89 | 0.1 | 7.3 | 4.1 | 2 | C |
| 7 | 523 | 8.7 | 44 | J | 7.7 | -2 | 84 | 0.8 | 7.1 | 2.0 | 2 | J |
| 8 | 520 | 8.6 | 66 | J | 6.5 | -38 | 87 | 0.2 | 4.4 | -1.9 | 4 | J |
| 9 | 537 | 9.7 | 60 | J | 8.8 | -13 | 75 | 1.9 | 7.3 | -0.0 | 5 | J |
| 10 | 540 | 9.4 | 62 | J | 9.9 | 16 | 69 | 3.2 | 7.7 | 4.3 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 485 | 5.8 | 70 | J | 7.3 | -51 | 158 | -4.0 | 2.9 | -4.8 | 2 | J |
| 15 | 471 | 5.6 | 58 | J | 6.7 | -59 | 155 | -3.0 | 2.9 | -4.9 | 2 | J |
| 16 | 480 | 6.0 | 52 | J | 6.7 | -73 | 207 | -1.7 | 1.2 | -6.3 | 1 | J |
| 17 | 474 | 7.3 | 45 | J | 5.9 | -65 | 252 | -0.7 | -0.2 | -5.4 | 2 | J |
| 18 | 463 | 7.0 | 39 | J | 5.6 | -58 | 264 | -0.3 | -0.7 | -5.5 | 1 | J |
| 19 | 469 | 6.0 | 48 | J | 5.3 | -57 | 261 | -0.4 | -0.4 | -4.9 | 2 | J |
| 20 | 478 | 5.5 | 43 | J | 7.5 | 25 | 226 | -4.6 | -5.7 | 0.3 | 2 | J |
| 21 | 473 | 6.4 | 41 | J | 7.4 | 29 | 225 | -4.5 | -5.7 | 0.6 | 1 | J |
| 22 | 463 | 5.7 | 31 | J | 7.0 | 32 | 228 | -3.9 | -5.6 | 0.6 | 1 | J |
| 23 | 458 | 6.2 | 31 | J | 6.0 | 35 | 220 | -3.7 | -4.5 | 1.0 | 1 | J |
| 24 | 454 | 5.9 | 53 | J | 5.5 | 32 | 153 | -3.6 | 0.1 | 3.1 | 3 | J |

MAR. 8, 1981

67

| | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 453 | 7.7 | 50 | J | 5.0 | -9 | 135 | -1.9 | 1.8 | 0.7 | 4 | J |
| | 452 | 8.0 | 64 | J | 4.7 | -7 | 190 | -2.9 | -0.2 | -0.6 | 4 | J |
| | 451 | 8.4 | 63 | J | 5.6 | 35 | 176 | -4.5 | -1.3 | 2.9 | 1 | J |
| | 438 | 8.3 | 49 | J | 6.1 | 16 | 155 | -5.1 | 1.4 | 2.5 | 2 | J |
| | 425 | 7.6 | 0 | C | 5.3 | 17 | 156 | -4.3 | 1.2 | 2.1 | 2 | J |
| | 418 | 7.3 | 0 | C | 6.1 | 3 | 195 | -5.2 | -1.4 | -0.2 | 3 | C |
| | 430 | 6.9 | 49 | J | 6.2 | -41 | 195 | -4.4 | 0.1 | -4.1 | 2 | J |
| | 432 | 6.1 | 49 | J | 5.8 | -38 | 198 | -3.6 | -0.3 | -3.2 | 3 | J |
| | 428 | 5.8 | 62 | J | 5.7 | -40 | 177 | -3.7 | 0.9 | -3.0 | 3 | J |
| | 437 | 5.7 | 59 | J | 6.1 | -44 | 158 | -3.6 | 2.2 | -3.4 | 3 | J |
| | 419 | 5.4 | 35 | J | 6.5 | -4 | 136 | -4.2 | 4.1 | 0.4 | 3 | J |
| | 448 | 4.8 | 59 | J | 6.5 | 16 | 109 | -1.7 | 4.4 | 2.4 | 4 | J |
| | 428 | 3.8 | 0 | C | 6.3 | -32 | 138 | -3.4 | 3.7 | -2.2 | 2 | C |
| | 430 | 3.5 | 0 | C | 7.1 | 2 | 125 | -3.9 | 5.4 | 1.6 | 1 | C |
| | 438 | 2.9 | 41 | J | 6.4 | 14 | 131 | -3.9 | 3.9 | 2.7 | 2 | J |
| | 441 | 2.7 | 56 | J | 6.2 | -8 | 146 | -3.9 | 2.7 | 0.2 | 4 | J |
| | 455 | 2.6 | 75 | J | 5.7 | -11 | 132 | -3.5 | 4.0 | 0.5 | 2 | J |
| | 437 | 2.2 | 39 | J | 6.6 | 10 | 130 | -4.1 | 4.0 | 3.1 | 1 | J |
| | 443 | 2.2 | 32 | J | 6.6 | 11 | 122 | -3.4 | 4.2 | 3.6 | 1 | J |
| | 433 | 2.2 | 39 | J | 6.5 | 2 | 131 | -4.2 | 4.1 | 2.6 | 1 | J |
| | 423 | 1.8 | 63 | L | 6.6 | -1 | 136 | -4.2 | 3.5 | 2.1 | 3 | J |
| | 412 | 2.4 | 0 | C | 6.8 | 6 | 137 | -4.8 | 3.4 | 3.0 | 1 | C |
| | 410 | 2.4 | 0 | C | 6.7 | -7 | 143 | -5.2 | 3.7 | 1.5 | 1 | C |
| | 403 | 2.2 | 0 | C | 6.8 | -4 | 155 | -6.1 | 2.6 | 1.2 | 1 | C |

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68

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 399 | 2.3 | 0 | C | 7.0 | -9 | 158 | -6.3 | 2.8 | 0.5 | 1 | C |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 357 | 4.3 | 0 | C | | | | | | | | |
| 8 | 357 | 4.3 | 0 | C | 7.1 | 19 | 141 | -5.0 | 3.3 | 3.3 | 2 | C |
| 9 | 361 | 4.3 | 0 | C | 7.1 | -3 | 134 | -4.7 | 4.8 | 0.8 | 2 | C |
| 10 | 371 | 4.1 | 0 | C | 7.1 | 1 | 127 | -4.1 | 5.3 | 1.2 | 2 | C |
| 11 | 415 | 3.5 | 0 | C | 7.4 | -11 | 108 | -2.2 | 7.0 | -0.0 | 1 | C |
| 12 | 399 | 3.0 | 0 | C | 7.6 | -3 | 115 | -3.2 | 6.7 | 1.0 | 1 | C |
| 13 | 413 | 3.0 | 0 | C | 7.3 | 5 | 119 | -3.4 | 5.9 | 2.0 | 1 | C |
| 14 | 416 | 3.4 | 0 | C | 7.0 | 17 | 137 | -4.1 | 3.3 | 2.7 | 3 | C |
| 15 | 406 | 3.3 | 0 | C | 7.3 | 6 | 119 | -3.4 | 5.7 | 2.5 | 1 | C |
| 16 | 416 | 3.5 | 0 | C | 7.6 | 20 | 136 | -4.7 | 3.5 | 3.7 | 2 | C |
| 17 | 411 | 3.5 | 0 | C | 7.6 | 2 | 119 | -3.5 | 5.8 | 2.6 | 2 | C |
| 18 | 405 | 3.5 | 0 | C | 7.6 | -4 | 130 | -4.7 | 5.3 | 1.9 | 1 | C |
| 19 | 401 | 3.3 | 0 | C | 7.7 | 3 | 140 | -5.7 | 4.1 | 2.6 | 1 | C |
| 20 | 399 | 3.7 | 0 | C | 8.6 | 10 | 146 | -6.7 | 3.2 | 3.5 | 2 | C |
| 21 | 409 | 4.7 | 0 | C | 9.6 | 8 | 123 | -5.0 | 5.7 | 5.2 | 2 | C |
| 22 | 416 | 5.4 | 0 | C | 9.9 | -5 | 107 | -2.7 | 7.8 | 4.2 | 3 | C |
| 23 | 432 | 6.0 | 0 | C | 9.9 | -1 | 108 | -3.0 | 7.7 | 5.0 | 2 | C |
| 24 | 423 | 6.3 | 0 | C | 10.2 | 19 | 123 | -4.6 | 4.2 | 6.5 | 4 | C |

MAR. 10, 1981

69

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 459 | 10.7 | 0 | C | 12.4 | -15 | 95 | -1.0 | 11.2 | 3.8 | 2 | C |
| 2 | 449 | 11.5 | 0 | C | 11.7 | 11 | 110 | -3.7 | 7.5 | 7.2 | 3 | C |
| 3 | 436 | 11.4 | 0 | C | 10.3 | 27 | 155 | -4.8 | 0.6 | 3.4 | 8 | C |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 421 | 7.7 | 0 | C | | | | | | | | |
| 8 | 421 | 7.7 | 0 | C | 7.4 | 36 | 226 | -4.1 | -5.2 | 3.0 | 1 | C |
| 9 | 424 | 7.9 | 0 | C | 7.0 | -8 | 233 | -3.2 | -4.0 | -1.7 | 3 | C |
| 10 | 425 | 7.2 | 0 | C | 7.4 | 1 | 235 | -3.4 | -4.7 | -0.9 | 4 | C |
| 11 | 462 | 5.9 | 0 | C | 8.2 | -58 | 324 | 2.9 | -0.9 | -6.1 | 4 | C |
| 12 | 471 | 6.1 | 0 | C | 7.0 | -1 | 295 | 1.9 | -4.0 | -0.9 | 5 | C |
| 13 | 435 | 6.4 | 0 | C | 6.0 | -32 | 120 | -2.5 | 4.7 | -2.0 | 1 | C |
| 14 | 430 | 6.6 | 0 | C | 5.7 | -13 | 139 | -4.0 | 3.7 | -0.3 | 1 | C |
| 15 | 434 | 6.6 | 0 | C | 6.8 | -13 | 105 | -1.4 | 5.4 | 0.3 | 4 | C |
| 16 | 433 | 5.8 | 0 | C | 7.3 | -20 | 93 | -0.3 | 7.0 | -0.1 | 1 | C |
| 17 | 424 | 5.5 | 0 | C | 7.5 | -21 | 97 | -0.8 | 6.8 | 0.2 | 3 | C |
| 18 | 439 | 5.2 | 0 | C | 7.4 | -21 | 92 | -0.3 | 7.0 | 0.5 | 2 | C |
| 19 | 429 | 4.8 | 0 | C | 7.3 | -15 | 95 | -0.6 | 6.6 | 1.5 | 2 | C |
| 20 | 420 | 4.6 | 0 | C | 7.0 | -28 | 117 | -2.7 | 6.1 | -0.0 | 1 | C |
| 21 | 429 | 5.2 | 0 | C | 6.8 | -1 | 154 | -4.1 | 1.8 | 1.0 | 5 | C |
| 22 | 418 | 5.1 | 0 | C | 6.8 | 8 | 139 | -4.8 | 3.0 | 3.0 | 2 | C |
| 23 | 419 | 5.3 | 0 | C | 7.0 | 9 | 148 | -5.7 | 2.3 | 2.9 | 1 | C |
| 24 | 406 | 5.2 | 0 | C | 7.0 | 9 | 155 | -6.3 | 1.8 | 2.5 | 1 | C |

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70

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 395 | 4.9 | 0 | C | | | | | | | | |
| 8 | 395 | 4.9 | 0 | C | 6.8 | -12 | 133 | -4.2 | 4.7 | -0.0 | 2 | C |
| 9 | 378 | 5.0 | 0 | C | 6.8 | -3 | 113 | -2.4 | 5.4 | 1.0 | 3 | C |
| 10 | 410 | 5.0 | 0 | C | 6.6 | -30 | 102 | -1.1 | 5.3 | -1.7 | 3 | C |
| 11 | 408 | 4.8 | 0 | C | 6.5 | -37 | 117 | -1.8 | 4.1 | -2.2 | 4 | C |
| 12 | 411 | 4.0 | 0 | C | 6.9 | -30 | 101 | -1.1 | 6.1 | -2.1 | 2 | C |
| 13 | 420 | 4.2 | 0 | C | 6.6 | -21 | 105 | -1.4 | 5.4 | -0.9 | 3 | C |
| 14 | 387 | 5.3 | 0 | C | 6.8 | -12 | 107 | -1.7 | 5.9 | 0.2 | 2 | C |
| 15 | 377 | 5.1 | 0 | C | 6.6 | 10 | 125 | -3.5 | 4.6 | 2.5 | 2 | C |
| 16 | 388 | 5.0 | 0 | C | 6.5 | 41 | 122 | -2.5 | 2.3 | 5.0 | 2 | C |
| 17 | 393 | 5.2 | 0 | C | 6.3 | -13 | 146 | -3.7 | 2.7 | -0.0 | 4 | C |
| 18 | 382 | 5.1 | 0 | C | 6.3 | -9 | 136 | -4.3 | 4.1 | 0.8 | 2 | C |
| 19 | 376 | 5.2 | 0 | C | 6.3 | 16 | 141 | -4.3 | 2.4 | 3.1 | 2 | C |
| 20 | 375 | 5.2 | 0 | C | 6.3 | 26 | 140 | -4.2 | 1.7 | 4.1 | 1 | C |
| 21 | 370 | 5.6 | 0 | C | 6.2 | 28 | 159 | -4.9 | 0.1 | 3.4 | 1 | C |
| 22 | 375 | 5.5 | 0 | C | 6.3 | 41 | 162 | -4.5 | -1.0 | 4.2 | 1 | C |
| 23 | 368 | 6.6 | 0 | C | 6.2 | 9 | 149 | -5.2 | 2.1 | 2.5 | 1 | C |
| 24 | 364 | 6.6 | 0 | C | 6.1 | -16 | 139 | -4.4 | 4.1 | 0.8 | 1 | C |

MAR. 12, 1981

71

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 6.6 | 0 | C | 5.7 | -19 | 141 | -4.0 | 3.6 | 0.3 | 1 | C |
| 2 | 370 | 6.2 | 0 | C | 6.0 | -13 | 135 | -3.9 | 4.0 | 1.0 | 1 | C |
| 3 | 376 | 5.0 | 0 | C | 6.8 | 7 | 143 | -5.2 | 3.0 | 2.7 | 2 | C |
| 4 | 379 | 5.2 | 0 | C | 6.6 | 22 | 146 | -5.1 | 1.9 | 3.7 | 1 | C |
| 5 | 371 | 4.8 | 0 | C | 7.3 | 18 | 151 | -5.9 | 2.1 | 3.4 | 1 | C |
| 6 | 379 | 4.4 | 0 | C | 7.2 | 35 | 151 | -5.1 | 1.1 | 4.9 | 1 | C |
| 7 | 380 | 4.4 | 0 | C | 7.3 | -14 | 132 | -3.3 | 3.8 | -0.0 | 5 | C |
| 8 | 382 | 4.5 | 0 | C | 7.0 | -43 | 112 | -1.9 | 5.7 | -3.2 | 1 | C |
| 9 | 377 | 4.9 | 0 | C | 7.1 | -54 | 65 | 1.7 | 4.8 | -4.4 | 2 | C |
| 10 | 376 | 4.4 | 0 | C | 7.5 | -20 | 139 | -5.1 | 4.8 | -1.4 | 2 | C |
| 11 | 382 | 4.3 | 0 | C | 7.6 | -41 | 97 | -0.6 | 5.9 | -3.4 | 3 | C |
| 12 | 366 | 4.3 | 0 | C | 7.7 | -4 | 154 | -6.3 | 3.1 | 0.1 | 3 | C |
| 13 | 365 | 4.0 | 0 | C | 7.3 | 5 | 159 | -6.7 | 2.4 | 1.2 | 1 | C |
| 14 | 381 | 4.4 | 0 | C | | | | | | | | |
| 15 | 390 | 5.0 | 0 | C | 6.7 | -20 | 133 | -2.3 | 2.8 | -0.5 | 5 | C |
| 16 | 377 | 4.9 | 0 | C | 6.9 | 13 | 155 | -5.2 | 1.9 | 2.1 | 3 | C |
| 17 | 385 | 4.5 | 0 | C | 7.1 | 25 | 164 | -6.0 | 0.4 | 3.3 | 2 | C |
| 18 | 393 | 4.5 | 0 | C | 7.3 | 30 | 163 | -5.9 | 0.1 | 4.0 | 1 | C |
| 19 | 477 | 8.0 | 0 | C | 12.1 | 53 | 166 | -6.2 | -2.6 | 8.1 | 5 | C |
| 20 | 511 | 10.4 | 0 | C | 12.6 | 59 | 188 | -5.2 | -5.1 | 7.2 | 6 | C |
| 21 | 520 | 11.2 | 0 | C | 11.5 | 37 | 157 | -5.2 | -0.5 | 4.9 | 7 | C |
| 22 | 527 | 11.2 | 0 | C | 12.2 | -46 | 112 | -2.5 | 9.0 | -2.3 | 7 | C |
| 23 | 506 | 10.5 | 0 | C | 12.1 | -31 | 124 | -5.1 | 9.4 | -0.1 | 5 | C |
| 24 | 497 | 8.6 | 0 | C | 14.2 | -18 | 113 | -4.8 | 11.3 | 3.1 | 6 | C |

MAR. 13, 1981

72

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 502 | 7.3 | 0 | C | 15.0 | 4 | 93 | -0.6 | 11.1 | 8.7 | 5 | C |
| 2 | 485 | 6.3 | 0 | C | 14.4 | 8 | 103 | -2.9 | 10.1 | 8.7 | 4 | C |
| 3 | 469 | 6.3 | 0 | C | 13.5 | 19 | 108 | -3.9 | 8.1 | 9.4 | 3 | C |
| 4 | 471 | 6.7 | 0 | C | 13.0 | 13 | 106 | -3.5 | 9.4 | 8.2 | 1 | C |
| 5 | 473 | 7.3 | 0 | C | 13.2 | 3 | 107 | -3.9 | 11.1 | 5.6 | 2 | C |
| 6 | 484 | 9.7 | 0 | C | 11.7 | 21 | 111 | -3.1 | 6.2 | 5.8 | 7 | C |
| 7 | 492 | 10.9 | 0 | C | 11.9 | 14 | 100 | -1.8 | 9.3 | 6.0 | 3 | C |
| 8 | | | | | 12.2 | 6 | 97 | -1.5 | 11.1 | 4.4 | 2 | C |
| 9 | | | | | 10.8 | 13 | 110 | -3.5 | 8.8 | 4.7 | 2 | C |
| 10 | | | | | 8.7 | 76 | 130 | -1.1 | -0.2 | 7.2 | 4 | C |
| 11 | | | | | 6.3 | -23 | 121 | -2.8 | 5.1 | -1.3 | 2 | C |
| 12 | | | | | 5.3 | -51 | 86 | 0.1 | 2.4 | -2.0 | 4 | C |
| 13 | | | | | 7.4 | -57 | 111 | -1.4 | 4.9 | -5.0 | 2 | C |
| 14 | | | | | 5.8 | -62 | 154 | -2.1 | 2.1 | -4.0 | 3 | C |
| 15 | | | | | 8.2 | -66 | 187 | -3.3 | 1.7 | -7.1 | 1 | C |
| 16 | | | | | 9.2 | -63 | 199 | -3.9 | 1.4 | -8.1 | 1 | C |
| 17 | | | | | 9.6 | -32 | 196 | -7.5 | -0.2 | -5.4 | 2 | C |
| 18 | 450 | 7.4 | 0 | C | 9.3 | -22 | 158 | -7.7 | 4.2 | -1.7 | 2 | C |
| 19 | 450 | 7.4 | 0 | C | 5.8 | 20 | 86 | 0.3 | 3.1 | 3.5 | 3 | C |
| 20 | 501 | 26.4 | 0 | C | 3.7 | -59 | 274 | 0.1 | 0.0 | -3.1 | 2 | C |
| 21 | 512 | 38.7 | 0 | C | 6.4 | -24 | 316 | 3.9 | -1.8 | -4.1 | 3 | C |
| 22 | 506 | 34.7 | 0 | C | 8.1 | -29 | 309 | 4.3 | -2.2 | -6.0 | 3 | C |
| 23 | 435 | 89.7 | 314 | L | 9.8 | -59 | 24 | 3.5 | 4.9 | -4.4 | 6 | C |
| 24 | 473 | 9.4 | 0 | C | 11.7 | 28 | 130 | -6.0 | 3.1 | 8.4 | 4 | C |

MAR. 14, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 522 | 8.6 | 0 | C | 11.2 | 28 | 130 | -5.9 | 3.2 | 8.0 | 4 | C |
| 2 | 523 | 9.8 | 0 | C | 12.4 | 53 | 128 | -4.6 | -0.3 | 11.4 | 1 | C |
| 3 | 524 | 12.4 | 0 | C | 14.1 | 38 | 98 | -1.4 | 5.1 | 12.4 | 4 | C |
| 4 | 551 | 16.6 | 0 | C | 13.4 | 1 | 113 | -3.9 | 8.1 | 4.4 | 8 | C |
| 5 | 576 | 37.4 | 105 | J | 8.0 | 23 | 147 | -5.6 | 2.1 | 4.1 | 3 | C |
| 6 | 625 | 24.7 | 0 | C | 7.7 | 31 | 171 | -6.1 | -0.5 | 3.8 | 3 | C |
| 7 | 618 | 22.0 | 0 | C | 8.4 | 55 | 224 | -0.9 | -1.3 | 1.4 | 8 | C |
| 8 | 574 | 30.4 | 68 | J | 8.4 | -69 | 192 | -1.6 | 0.8 | -4.2 | 6 | C |
| 9 | 632 | 25.6 | 82 | J | 8.0 | -73 | 285 | 0.4 | -0.2 | -6.0 | 5 | C |
| 10 | 637 | 29.2 | 101 | J | 9.7 | -54 | 112 | -1.5 | 5.0 | -4.7 | 6 | C |
| 11 | 630 | 27.6 | 111 | J | 8.7 | 37 | 218 | -3.1 | -3.0 | 2.4 | 7 | C |
| 12 | 655 | 22.6 | 99 | J | 11.6 | -44 | 302 | 4.1 | -4.8 | -8.6 | 4 | C |
| 13 | 672 | 19.3 | 0 | C | 4.3 | -47 | 12 | 2.0 | 0.9 | -2.1 | 3 | C |
| 14 | 655 | 17.8 | 0 | C | 4.0 | -27 | 106 | -0.9 | 3.4 | -0.8 | 2 | J |
| 15 | 615 | 12.9 | 0 | C | 4.0 | -75 | 135 | -0.4 | 1.0 | -1.8 | 4 | J |
| 16 | 594 | 6.9 | 95 | J | 6.8 | 6 | 110 | -1.8 | 4.6 | 2.2 | 4 | J |
| 17 | 565 | 5.5 | 84 | J | 8.4 | 5 | 134 | -5.5 | 5.0 | 2.8 | 2 | J |
| 18 | 559 | 5.7 | 70 | J | 8.6 | -15 | 150 | -6.9 | 4.5 | -0.2 | 2 | J |
| 19 | 556 | 5.4 | 46 | J | 9.7 | -11 | 163 | -8.8 | 3.2 | -0.3 | 2 | J |
| 20 | 594 | 9.9 | 0 | C | 9.6 | 36 | 177 | -7.1 | -2.3 | 4.6 | 4 | J |
| 21 | 640 | 19.2 | 104 | J | 5.4 | 39 | 149 | -3.5 | -0.0 | 3.9 | 1 | J |
| 22 | 615 | 13.8 | 140 | J | 6.8 | 29 | 151 | -4.8 | 0.5 | 4.0 | 3 | J |
| 23 | 566 | 6.5 | 89 | J | 9.3 | 24 | 147 | -6.7 | 1.6 | 5.4 | 2 | J |
| 24 | 516 | 5.6 | 0 | C | 9.8 | 16 | 140 | -6.8 | 3.3 | 5.3 | 3 | C |

MAR. 15, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 528 | 5.8 | 0 | C | 8.8 | -9 | 172 | -8.0 | 1.7 | -0.4 | 2 | C |
| 2 | 528 | 6.6 | 0 | C | 9.1 | 1 | 175 | -8.1 | 0.5 | 0.5 | 4 | C |
| 3 | 518 | 6.9 | 0 | C | 9.7 | 31 | 168 | -7.5 | -0.9 | 4.8 | 3 | C |
| 4 | 526 | 6.8 | 0 | C | 9.8 | -22 | 157 | -8.0 | 4.7 | -1.6 | 2 | C |
| 5 | 584 | 7.5 | 144 | J | 8.9 | -24 | 122 | -3.6 | 6.6 | -0.4 | 5 | J |
| 6 | 541 | 6.8 | 0 | C | 8.8 | -8 | 166 | -6.6 | 1.8 | -0.3 | 5 | C |
| 7 | 536 | 6.3 | 0 | C | 8.8 | 10 | 125 | -4.5 | 5.6 | 3.3 | 4 | J |
| 8 | 542 | 6.0 | 0 | C | 8.4 | 47 | 126 | -3.0 | 2.5 | 6.4 | 4 | J |
| 9 | 541 | 5.9 | 131 | J | 8.5 | 7 | 140 | -6.0 | 4.7 | 2.1 | 3 | J |
| 10 | 559 | 5.1 | 0 | C | 8.8 | 5 | 123 | -4.6 | 6.9 | 2.2 | 2 | C |
| 11 | 531 | 4.9 | 0 | C | 9.2 | 10 | 150 | -7.8 | 4.2 | 2.5 | 0 | C |
| 12 | 512 | 4.9 | 0 | C | 9.9 | -1 | 146 | -8.1 | 5.3 | 1.0 | 1 | C |
| 13 | 538 | 4.5 | 66 | J | 10.5 | -12 | 157 | -7.7 | 3.6 | -1.0 | 5 | J |
| 14 | 562 | 4.3 | 58 | J | 9.9 | -23 | 132 | -5.9 | 7.3 | -2.0 | 2 | J |
| 15 | 561 | 4.3 | 77 | J | 9.8 | -12 | 130 | -5.9 | 7.3 | 0.2 | 2 | J |
| 16 | 574 | 5.7 | 184 | J | 6.1 | -14 | 129 | -2.7 | 3.6 | 0.1 | 3 | C |
| 17 | 556 | 6.4 | 0 | C | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 553 | 5.3 | 0 | C | 6.4 | -20 | 140 | -3.6 | 3.5 | 0.2 | 3 | C |
| 22 | 568 | 4.2 | 78 | J | 6.7 | -21 | 152 | -5.3 | 3.6 | -0.4 | 2 | C |
| 23 | 554 | 4.1 | 105 | J | 6.6 | -2 | 161 | -6.1 | 1.8 | 0.9 | 1 | C |
| 24 | 552 | 4.3 | 124 | J | 6.1 | 10 | 190 | -5.5 | -1.4 | 0.3 | 2 | J |

MAR. 16, 1981

75

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 576 | 4.9 | 178 | J | 6.1 | 6 | 178 | -4.1 | -0.1 | 0.4 | 4 | J |
| 2 | 575 | 4.8 | 111 | J | 7.1 | -5 | 153 | -5.7 | 2.8 | 1.1 | 3 | C |
| 3 | 548 | 4.9 | 133 | J | 6.7 | 20 | 136 | -4.3 | 2.5 | 4.0 | 2 | J |
| 4 | 560 | 4.6 | 109 | J | 6.8 | 22 | 142 | -3.6 | 1.6 | 2.9 | 5 | J |
| 5 | 549 | 4.5 | 137 | J | 6.4 | 14 | 185 | -5.2 | -1.0 | 1.0 | 3 | J |
| 6 | 538 | 4.5 | 115 | J | 6.8 | -4 | 173 | -6.0 | 0.8 | -0.1 | 3 | J |
| 7 | 550 | 4.4 | 127 | J | 6.5 | -3 | 149 | -5.1 | 3.0 | 0.7 | 2 | J |
| 8 | 547 | 4.6 | 138 | J | 6.2 | 3 | 147 | -4.7 | 2.9 | 1.1 | 3 | J |
| 9 | 542 | 4.7 | 101 | J | 6.5 | 19 | 145 | -4.8 | 2.8 | 2.8 | 2 | J |
| 10 | 554 | 5.0 | 114 | J | 6.1 | 19 | 191 | -4.6 | -1.2 | 1.4 | 3 | J |
| 11 | 538 | 4.7 | 132 | J | 5.8 | 15 | 157 | -4.4 | 1.6 | 1.7 | 3 | J |
| 12 | 519 | 5.2 | 154 | J | 5.8 | -3 | 185 | -5.5 | -0.4 | -0.4 | 2 | J |
| 13 | 534 | 5.2 | 176 | J | 5.5 | -7 | 157 | -4.3 | 1.9 | -0.1 | 3 | J |
| 14 | 532 | 5.4 | 147 | J | 6.1 | 11 | 128 | -3.3 | 3.9 | 2.1 | 3 | J |
| 15 | 515 | 5.1 | 0 | C | 5.8 | 39 | 117 | -1.9 | 2.6 | 4.2 | 2 | C |
| 16 | 534 | 5.5 | 0 | C | 5.2 | -35 | 157 | -3.5 | 2.3 | -2.0 | 1 | C |
| 17 | 533 | 5.7 | 0 | C | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 530 | 5.6 | 0 | C | | | | | | | | |
| 21 | 530 | 5.6 | 0 | C | 6.2 | 15 | 100 | -1.0 | 3.7 | 4.1 | 2 | C |
| 22 | 523 | 6.2 | 0 | C | 6.3 | 20 | 122 | -2.3 | 2.1 | 3.4 | 4 | C |
| 23 | 517 | 6.5 | 155 | J | 6.0 | -13 | 163 | -5.5 | 2.1 | -0.1 | 1 | J |
| 24 | 538 | 6.0 | 106 | J | 6.0 | -40 | 196 | -3.5 | 0.9 | -3.0 | 4 | J |

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MAR. 17, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 524 | 6.8 | 0 | C | 6.9 | -37 | 187 | -4.4 | 1.5 | -3.1 | 2 | C |
| 2 | 513 | 5.1 | 55 | J | 6.1 | 8 | 203 | -4.6 | -2.0 | -0.4 | 3 | J |
| 3 | 521 | 5.1 | 78 | J | 5.7 | 12 | 168 | -4.4 | 0.3 | 1.3 | 3 | J |
| 4 | 516 | 5.6 | 67 | J | 6.3 | -3 | 151 | -4.9 | 2.5 | 1.0 | 3 | J |
| 5 | 540 | 5.2 | 110 | J | 5.9 | 56 | 164 | -2.3 | -0.8 | 3.4 | 4 | J |
| 6 | 569 | 5.3 | 151 | J | 5.6 | 32 | 94 | -0.2 | 2.5 | 3.4 | 4 | J |
| 7 | 552 | 4.5 | 157 | J | 6.3 | -1 | 111 | -1.9 | 4.8 | 1.5 | 3 | J |
| 8 | 558 | 5.4 | 293 | J | 5.3 | -11 | 140 | -3.1 | 2.7 | -0.0 | 3 | J |
| 9 | 562 | 5.8 | 246 | J | 4.6 | 11 | 122 | -1.5 | 2.2 | 1.1 | 4 | J |
| 10 | 562 | 5.7 | 198 | J | 5.8 | 30 | 79 | 0.6 | 2.8 | 2.6 | 4 | J |
| 11 | 557 | 6.0 | 192 | J | 7.9 | 62 | 77 | 0.7 | 1.8 | 6.7 | 3 | J |
| 12 | 572 | 5.9 | 183 | J | 6.6 | -18 | 76 | 1.4 | 6.0 | -0.7 | 2 | J |
| 13 | 553 | 6.1 | 249 | J | 6.3 | 34 | 122 | -1.8 | 2.3 | 2.9 | 5 | J |
| 14 | 532 | 5.6 | 231 | J | 5.9 | -28 | 204 | -4.5 | -1.3 | -3.1 | 2 | J |
| 15 | 550 | 5.3 | 183 | J | 5.8 | 26 | 201 | -4.0 | -2.1 | 1.6 | 3 | J |
| 16 | 553 | 4.6 | 0 | C | 5.9 | 20 | 192 | -3.9 | -1.3 | 1.1 | 4 | C |
| 17 | 523 | 4.0 | 130 | J | 5.9 | 7 | 184 | -5.6 | -0.6 | 0.5 | 2 | J |
| 18 | 533 | 4.3 | 161 | J | 6.1 | 7 | 160 | -5.3 | 1.4 | 1.5 | 2 | J |
| 19 | 527 | 4.4 | 159 | J | 6.2 | 10 | 148 | -4.9 | 2.2 | 2.4 | 2 | J |
| 20 | 479 | 4.6 | 0 | C | 6.3 | 25 | 136 | -4.0 | 2.0 | 4.3 | 0 | C |
| 21 | 534 | 4.0 | 128 | J | 6.0 | -16 | 160 | -4.6 | 2.2 | -0.3 | 3 | J |
| 22 | 533 | 4.0 | 99 | J | 6.1 | 6 | 140 | -4.2 | 2.6 | 2.5 | 2 | J |
| 23 | 520 | 4.0 | 59 | J | 6.4 | -4 | 151 | -5.4 | 2.7 | 1.4 | 2 | J |
| 24 | 517 | 4.1 | 56 | J | 6.6 | -17 | 142 | -4.5 | 3.9 | 0.6 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 563 | 4.3 | 83 | J | 7.1 | -37 | 113 | -2.1 | 6.3 | -0.6 | 2 | J |
| 2 | 546 | 4.5 | 106 | J | 7.2 | -42 | 140 | -4.0 | 5.4 | -2.2 | 1 | J |
| 3 | 513 | 4.1 | 54 | J | 8.1 | -35 | 135 | -4.1 | 5.6 | -1.5 | 4 | J |
| 4 | 498 | 4.4 | 60 | J | 8.6 | -21 | 143 | -6.0 | 5.4 | -0.5 | 3 | J |
| 5 | 490 | 4.7 | 69 | J | 9.0 | -17 | 134 | -5.6 | 6.4 | 0.1 | 3 | J |
| 6 | 469 | 4.5 | 41 | J | 9.0 | -36 | 165 | -5.3 | 2.8 | -3.2 | 6 | J |
| 7 | 509 | 6.3 | 65 | J | 8.2 | -23 | 104 | -1.8 | 7.9 | -0.7 | 1 | J |
| 8 | 509 | 6.4 | 62 | J | 8.9 | -34 | 102 | -1.4 | 7.5 | -2.5 | 4 | J |
| 9 | 522 | 7.6 | 59 | J | 9.3 | -17 | 77 | 1.9 | 8.6 | -0.5 | 3 | J |
| 10 | 478 | 6.3 | 0 | C | 10.6 | -20 | 118 | -4.3 | 8.7 | -1.5 | 3 | C |
| 11 | 480 | 6.3 | 0 | C | 9.9 | -27 | 129 | -5.4 | 7.4 | -2.9 | 1 | C |
| 12 | 451 | 6.1 | 0 | C | 9.6 | -28 | 167 | -8.1 | 2.8 | -3.9 | 1 | C |
| 13 | 451 | 6.1 | 0 | C | 9.4 | -17 | 135 | -6.0 | 6.4 | -1.1 | 3 | C |
| 14 | 454 | 6.9 | 0 | C | 9.4 | -21 | 144 | -6.8 | 5.5 | -1.8 | 2 | C |
| 15 | 442 | 6.4 | 0 | C | 9.8 | -30 | 136 | -5.4 | 6.3 | -2.7 | 4 | C |
| 16 | 464 | 7.1 | 44 | J | 9.3 | -42 | 145 | -5.3 | 5.5 | -4.2 | 3 | J |
| 17 | 451 | 6.7 | 42 | J | 9.2 | -32 | 150 | -6.5 | 5.2 | -2.9 | 3 | J |
| 18 | 447 | 7.2 | 57 | J | 9.4 | -40 | 186 | -6.5 | 1.7 | -5.2 | 4 | J |
| 19 | 441 | 7.4 | 73 | J | 9.0 | -14 | 161 | -7.2 | 3.1 | -0.5 | 4 | J |
| 20 | 428 | 6.9 | 49 | J | 9.0 | -18 | 163 | -7.8 | 3.4 | -1.0 | 3 | J |
| 21 | 442 | 6.6 | 64 | J | 8.9 | -23 | 142 | -5.9 | 5.6 | -0.2 | 4 | J |
| 22 | 461 | 6.2 | 84 | J | 8.9 | -37 | 137 | -5.2 | 7.0 | -1.7 | 1 | J |
| 23 | 423 | 6.2 | 0 | C | 8.7 | -12 | 140 | -6.1 | 5.1 | 1.6 | 3 | C |
| 24 | 424 | 6.0 | 0 | C | 8.5 | -13 | 165 | -7.7 | 2.8 | -0.4 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 421 | 6.1 | 0 | C | 8.4 | -6 | 138 | -6.1 | 5.0 | 2.3 | 1 | C |
| 2 | 422 | 6.2 | 0 | C | 7.8 | -19 | 157 | -6.6 | 3.7 | -0.6 | 1 | C |
| 3 | 423 | 6.3 | 0 | C | 7.5 | 0 | 138 | -4.9 | 3.8 | 2.2 | 3 | C |
| 4 | 428 | 6.4 | 0 | C | 7.5 | 1 | 122 | -3.8 | 5.3 | 2.8 | 2 | C |
| 5 | 434 | 6.4 | 0 | C | 7.3 | 12 | 120 | -3.3 | 4.6 | 3.6 | 2 | C |
| 6 | 429 | 6.4 | 0 | C | 7.2 | 8 | 137 | -4.5 | 3.6 | 2.3 | 3 | C |
| 7 | 429 | 6.1 | 39 | J | 7.1 | 4 | 146 | -5.3 | 3.2 | 1.6 | 3 | J |
| 8 | 425 | 5.9 | 46 | J | 7.1 | -2 | 139 | -5.1 | 4.4 | 1.0 | 2 | J |
| 9 | 420 | 5.4 | 39 | J | 6.9 | -9 | 146 | -5.5 | 3.8 | -0.1 | 2 | J |
| 10 | 416 | 6.0 | 0 | C | 7.7 | -4 | 143 | -5.9 | 4.6 | 0.4 | 1 | C |
| 11 | 421 | 6.1 | 0 | C | 7.7 | -2 | 139 | -5.3 | 4.7 | 0.7 | 3 | C |
| 12 | 425 | 6.3 | 0 | C | 7.5 | 3 | 202 | -6.1 | -2.5 | -0.2 | 1 | J |
| 13 | 408 | 6.1 | 37 | J | 7.4 | 5 | 149 | -5.7 | 3.2 | 1.3 | 3 | J |
| 14 | 411 | 6.2 | 0 | C | 7.9 | 0 | 130 | -4.9 | 5.6 | 1.5 | 2 | C |
| 15 | 412 | 4.2 | 26 | J | 8.5 | -15 | 149 | -6.5 | 4.4 | -0.8 | 3 | J |
| 16 | 419 | 3.9 | 35 | J | 8.9 | -39 | 186 | -6.6 | 1.2 | -5.3 | 2 | J |
| 17 | 451 | 5.3 | 91 | J | 9.1 | -48 | 149 | -4.9 | 5.1 | -4.7 | 3 | J |
| 18 | 435 | 5.0 | 89 | J | 8.4 | -34 | 188 | -6.0 | 1.0 | -4.0 | 4 | J |
| 19 | 406 | 4.3 | 47 | J | 9.0 | -9 | 186 | -8.1 | -0.1 | -1.5 | 4 | J |
| 20 | 394 | 4.5 | 54 | J | 9.6 | -5 | 170 | -8.7 | 1.7 | 0.1 | 3 | J |
| 21 | 400 | 4.5 | 50 | J | 9.3 | -14 | 161 | -7.4 | 3.2 | -0.3 | 4 | J |
| 22 | 417 | 5.6 | 56 | J | 10.3 | -10 | 133 | -6.8 | 7.1 | 2.7 | 1 | J |
| 23 | 430 | 5.4 | 110 | J | 9.7 | 18 | 125 | -5.0 | 4.2 | 6.4 | 3 | J |
| 24 | 431 | 5.2 | 131 | J | 8.6 | 3 | 133 | -4.8 | 4.1 | 3.3 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 471 | 4.1 | 176 | J | 7.8 | -4 | 123 | -3.8 | 5.1 | 2.8 | 3 | J |
| 2 | 510 | 4.2 | 210 | J | 7.3 | 17 | 100 | -1.0 | 3.7 | 4.3 | 4 | J |
| 3 | 504 | 4.7 | 325 | J | 7.1 | -10 | 132 | -4.3 | 4.8 | 1.4 | 3 | J |
| 4 | 490 | 3.8 | 154 | J | 8.4 | -23 | 141 | -5.5 | 5.3 | -0.7 | 3 | C |
| 5 | 480 | 4.6 | 164 | J | 7.5 | 11 | 128 | -4.1 | 4.3 | 3.3 | 3 | J |
| 6 | 497 | 4.4 | 153 | J | 6.9 | 8 | 136 | -4.2 | 3.5 | 2.2 | 4 | J |
| 7 | 495 | 4.3 | 139 | J | 7.3 | -9 | 114 | -2.6 | 5.9 | 0.9 | 3 | J |
| 8 | 499 | 4.4 | 124 | J | 7.3 | -7 | 122 | -3.2 | 5.1 | 0.7 | 4 | J |
| 9 | 490 | 3.8 | 102 | J | 7.5 | -20 | 134 | -4.3 | 4.9 | -1.1 | 4 | J |
| 10 |  |  |  |  | 7.7 | 15 | 91 | -0.2 | 5.6 | 3.0 | 4 | C |
| 11 |  |  |  |  | 7.8 | -9 | 123 | -3.9 | 6.1 | 0.2 | 2 | C |
| 12 |  |  |  |  | 7.8 | -15 | 145 | -4.9 | 3.7 | -0.9 | 4 | C |
| 13 |  |  |  |  | 7.5 | -22 | 177 | -6.6 | 0.9 | -2.4 | 2 | C |
| 14 | 489 | 4.2 | 101 | J | 7.6 | -20 | 183 | -6.9 | 0.3 | -2.5 | 2 | J |
| 15 | 499 | 4.5 | 115 | J | 7.5 | -14 | 176 | -5.0 | 0.7 | -1.1 | 5 | J |
| 16 | 466 | 3.9 | 63 | J | 6.8 | 0 | 164 | -5.9 | 1.6 | 0.6 | 3 | J |
| 17 | 450 | 4.4 | 42 | J | 7.7 | 13 | 167 | -7.3 | 0.9 | 2.2 | 0 | J |
| 18 | 468 | 3.6 | 55 | J | 6.1 | 7 | 179 | -6.0 | -0.2 | 0.7 | 1 | J |
| 19 | 469 | 3.5 | 50 | J | 6.8 | 12 | 184 | -6.4 | -1.0 | 1.0 | 1 | J |
| 20 | 437 | 4.0 | 0 | C | 6.7 | 2 | 125 | -3.6 | 4.3 | 2.8 | 1 | C |
| 21 | 446 | 3.8 | 0 | C | 6.7 | 5 | 124 | -3.7 | 4.2 | 3.4 | 1 | C |
| 22 | 485 | 3.5 | 74 | J | 6.6 | 7 | 107 | -1.9 | 4.6 | 4.1 | 1 | J |
| 23 | 467 | 3.7 | 73 | J | 6.6 | 1 | 114 | -2.6 | 4.7 | 3.4 | 2 | J |
| 24 | 478 | 3.9 | 77 | J | 6.6 | 0 | 109 | -2.0 | 4.7 | 3.3 | 3 | J |

MAR. 21, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 451 | 3.7 | 69 | J | 6.7 | 2 | 120 | -3.0 | 4.3 | 3.1 | 3 | J |
| 2 | 445 | 3.7 | 70 | J | 6.8 | 9 | 115 | -2.8 | 4.5 | 4.0 | 2 | J |
| 3 | 464 | 4.2 | 68 | J | 6.7 | 18 | 98 | -0.8 | 4.2 | 4.6 | 2 | J |
| 4 | 471 | 4.2 | 60 | J | 6.8 | 23 | 101 | -1.1 | 3.9 | 4.8 | 3 | J |
| 5 | 436 | 3.1 | 49 | J | 6.3 | 21 | 133 | -3.8 | 2.8 | 3.6 | 2 | J |
| 6 | 390 | 4.2 | 0 | C | 6.1 | 18 | 125 | -3.1 | 3.5 | 3.3 | 2 | J |
| 7 | 420 | 3.9 | 53 | J | 6.0 | -15 | 131 | -3.4 | 4.1 | -0.1 | 3 | J |
| 8 | 441 | 4.6 | 46 | J | 6.1 | -15 | 111 | -1.7 | 4.6 | -0.0 | 4 | J |
| 9 | 385 | 4.6 | 26 | J | 6.7 | -28 | 156 | -5.1 | 2.9 | -2.3 | 2 | J |
| 10 | 397 | 4.5 | 0 | C | 6.6 | 9 | 140 | -4.7 | 3.6 | 1.8 | 2 | C |
| 11 | 399 | 4.5 | 0 | C | 6.3 | -16 | 79 | 1.1 | 6.0 | -0.4 | 1 | J |
| 12 | 392 | 4.6 | 0 | C | 6.3 | 14 | 106 | -1.3 | 4.2 | 2.1 | 4 | J |
| 13 | 398 | 4.5 | 36 | J | 6.4 | 14 | 99 | -0.9 | 5.1 | 2.6 | 3 | J |
| 14 | 390 | 4.6 | 0 | C | 6.1 | 20 | 134 | -3.5 | 3.0 | 2.7 | 3 | J |
| 15 | 411 | 4.5 | 46 | J | 6.4 | 22 | 95 | -0.5 | 4.6 | 3.7 | 3 | J |
| 16 | 422 | 4.5 | 37 | J | 6.6 | 25 | 84 | 0.6 | 4.6 | 4.6 | 1 | J |
| 17 | 400 | 4.8 | 29 | J | 6.4 | 12 | 134 | -4.3 | 3.6 | 3.0 | 0 | J |
| 18 | 379 | 4.0 | 100 | L | 6.8 | 6 | 156 | -5.6 | 2.0 | 1.7 | 3 | J |
| 19 | 399 | 5.7 | 0 | C | 6.9 | -35 | 205 | -5.0 | -0.3 | -4.5 | 1 | C |
| 20 | 398 | 5.9 | 0 | C | 6.9 | -50 | 195 | -4.1 | 1.7 | -4.9 | 2 | C |
| 21 | 395 | 5.6 | 0 | C | 6.5 | -50 | 207 | -3.5 | 1.1 | -4.9 | 2 | C |
| 22 | 388 | 5.5 | 0 | C | 5.5 | -18 | 165 | -4.4 | 1.8 | -0.6 | 2 | C |
| 23 | 385 | 5.4 | 0 | C | 6.4 | 0 | 92 | -0.2 | 4.7 | 3.3 | 3 | C |
| 24 | 382 | 5.3 | 0 | C | 5.9 | -10 | 214 | -4.1 | -1.8 | -2.3 | 3 | C |

MAR. 22, 1981

81

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 5.7 | 0 | C | 6.9 | -22 | 224 | -3.9 | -1.9 | -3.9 | 3 | C |
| 2 | 368 | 5.8 | 0 | C | 6.9 | 23 | 199 | -5.8 | -3.1 | 1.1 | 1 | C |
| 3 | 358 | 5.3 | 0 | C | 6.2 | -15 | 167 | -5.5 | 1.8 | -0.7 | 2 | C |
| 4 | 363 | 5.0 | 0 | C | 6.2 | -11 | 171 | -5.9 | 1.4 | -0.6 | 1 | C |
| 5 | 362 | 4.8 | 0 | C | 6.0 | -14 | 165 | -5.3 | 1.9 | -0.6 | 2 | C |
| 6 | 363 | 5.1 | 0 | C | 6.0 | 5 | 121 | -2.6 | 3.8 | 2.0 | 3 | C |
| 7 | 368 | 5.3 | 0 | C | 5.9 | 23 | 118 | -2.3 | 3.6 | 3.4 | 2 | C |
| 8 | 368 | 5.2 | 0 | C | 5.7 | 2 | 94 | -0.4 | 4.7 | 1.5 | 3 | C |
| 9 | 370 | 5.0 | 0 | C | 6.1 | 14 | 88 | 0.2 | 5.0 | 2.6 | 2 | C |
| 10 | 377 | 4.7 | 0 | C | 5.9 | 15 | 81 | 0.8 | 4.7 | 2.5 | 2 | C |
| 11 | 376 | 4.8 | 0 | C | 5.9 | 17 | 84 | 0.6 | 4.7 | 2.7 | 2 | C |
| 12 | 380 | 4.9 | 0 | C | 6.1 | 16 | 85 | 0.5 | 4.7 | 2.5 | 3 | C |
| 13 | 382 | 5.2 | 0 | C | 6.6 | 12 | 44 | 4.4 | 3.9 | 2.2 | 2 | C |
| 14 | 373 | 5.3 | 0 | C | 5.3 | 17 | 87 | 0.2 | 4.0 | 2.5 | 2 | C |
| 15 | 361 | 5.4 | 0 | C | 6.0 | 1 | 113 | -2.1 | 4.8 | 1.6 | 2 | C |
| 16 | 352 | 5.3 | 0 | C | 6.1 | -9 | 125 | -3.0 | 4.3 | 0.7 | 3 | C |
| 17 | 351 | 5.3 | 0 | C | 6.0 | -12 | 115 | -2.4 | 5.2 | 0.9 | 1 | C |
| 18 | 356 | 5.2 | 0 | C | 5.9 | -19 | 84 | 0.5 | 5.5 | 0.6 | 2 | C |
| 19 | 358 | 5.0 | 0 | C | 6.0 | -15 | 95 | -0.5 | 5.3 | 1.2 | 2 | C |
| 20 | 358 | 5.0 | 0 | C | 5.7 | -11 | 98 | -0.7 | 4.5 | 1.6 | 2 | C |
| 21 | 361 | 4.7 | 0 | C | 5.3 | -41 | 119 | -1.7 | 4.3 | -0.9 | 2 | C |
| 22 | 362 | 4.6 | 0 | C | 5.4 | 0 | 108 | -1.3 | 3.2 | 2.2 | 3 | C |
| 23 | 358 | 4.5 | 0 | C | 5.4 | 22 | 88 | 0.1 | 2.8 | 4.3 | 1 | C |
| 24 | 359 | 4.2 | 0 | C | 5.3 | -2 | 89 | 0.1 | 4.2 | 2.7 | 1 | C |

MAR. 23, 1981

82

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 361 | 4.2 | 0 | C | 5.3 | 8 | 74 | 1.4 | 3.7 | 3.3 | 1 | C |
| 2 | 360 | 4.4 | 0 | C | 5.3 | -4 | 82 | 0.7 | 4.4 | 2.4 | 1 | C |
| 3 | 352 | 4.6 | 0 | C | 5.4 | -2 | 116 | -2.4 | 4.2 | 2.2 | 0 | C |
| 4 | 348 | 5.0 | 0 | C | 5.3 | 0 | 103 | -1.1 | 4.3 | 2.3 | 1 | C |
| 5 | 349 | 5.2 | 0 | C | 5.4 | 6 | 99 | -0.8 | 4.4 | 2.6 | 1 | C |
| 6 | 341 | 5.2 | 0 | C | 5.6 | -1 | 111 | -2.0 | 4.7 | 1.8 | 1 | C |
| 7 | 342 | 5.0 | 0 | C | 5.5 | 0 | 106 | -1.3 | 4.3 | 1.4 | 3 | C |
| 8 | 348 | 4.5 | 0 | C | 5.6 | -25 | 170 | -5.0 | 1.4 | -2.0 | 1 | C |
| 9 | 358 | 4.3 | 0 | C | 5.4 | -14 | 182 | -5.2 | 0.2 | -1.3 | 1 | C |
| 10 | 354 | 5.2 | 0 | C | 4.5 | 9 | 136 | -2.5 | 2.3 | 1.1 | 2 | C |
| 11 | 358 | 6.0 | 0 | C | 4.9 | -8 | 154 | -3.8 | 1.9 | -0.2 | 2 | C |
| 12 | 361 | 6.3 | 0 | C | 4.5 | -18 | 188 | -4.1 | -0.3 | -1.5 | 1 | C |
| 13 | 355 | 6.4 | 0 | C | 4.5 | -19 | 175 | -4.0 | 0.7 | -1.3 | 1 | C |
| 14 | 347 | 6.3 | 0 | C | 4.5 | 16 | 178 | -4.1 | -0.2 | 1.2 | 1 | C |
| 15 | 345 | 6.2 | 0 | C | 4.5 | 9 | 182 | -4.0 | -0.3 | 0.6 | 2 | C |
| 16 | 348 | 6.1 | 0 | C | 4.4 | 28 | 168 | -3.3 | 0.0 | 1.9 | 2 | C |
| 17 | 349 | 6.0 | 0 | C | 4.4 | 17 | 160 | -3.8 | 0.8 | 1.7 | 1 | C |
| 18 | 338 | 6.2 | 0 | C | 4.0 | 9 | 165 | -3.3 | 0.6 | 0.9 | 2 | C |
| 19 | 323 | 6.5 | 0 | C | 4.0 | -2 | 79 | 0.7 | 3.3 | 1.7 | 1 | C |
| 20 | 326 | 6.9 | 0 | C | 4.6 | 30 | 71 | 1.2 | 1.8 | 3.4 | 2 | C |
| 21 | 329 | 7.3 | 0 | C | 4.7 | 5 | 61 | 2.0 | 2.8 | 2.2 | 2 | C |
| 22 | 321 | 6.8 | 0 | C | 4.8 | 12 | 83 | 0.5 | 2.9 | 3.1 | 2 | C |
| 23 | 319 | 6.7 | 0 | C | 5.0 | 23 | 81 | 0.7 | 2.4 | 3.9 | 1 | C |
| 24 | 316 | 7.1 | 0 | C | 4.9 | 14 | 98 | -0.6 | 2.9 | 3.2 | 2 | C |

MAR. 24, 1981

83

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 316 | 7.5 | 0 | C | 5.3 | 22 | 104 | -0.9 | 2.3 | 3.5 | 3 | C |
| 2 | 309 | 7.2 | 0 | C | 5.5 | 2 | 101 | -1.0 | 4.3 | 2.9 | 1 | C |
| 3 | 310 | 7.4 | 0 | C | 5.4 | -5 | 108 | -1.5 | 4.3 | 2.0 | 2 | C |
| 4 | 306 | 7.8 | 0 | C | 5.7 | 17 | 138 | -3.9 | 2.4 | 3.1 | 1 | C |
| 5 | 303 | 8.1 | 0 | C | 6.2 | 4 | 125 | -3.4 | 4.2 | 2.3 | 1 | C |
| 6 | 306 | 8.0 | 0 | C | 6.7 | -6 | 115 | -2.8 | 5.7 | 1.4 | 1 | C |
| 7 | 305 | 8.2 | 0 | C | 7.4 | -7 | 116 | -3.1 | 6.3 | 1.1 | 1 | C |
| 8 | 298 | 11.0 | 0 | C | 7.8 | -3 | 142 | -6.0 | 4.7 | 1.0 | 1 | C |
| 9 | 297 | 12.2 | 0 | C | 7.6 | -8 | 137 | -5.4 | 5.2 | 0.2 | 1 | C |
| 10 | 291 | 12.3 | 0 | C | 7.5 | -10 | 137 | -5.3 | 5.1 | -0.2 | 1 | C |
| 11 | 293 | 13.1 | 0 | C | 7.2 | -2 | 131 | -4.5 | 5.2 | 0.9 | 2 | C |
| 12 | 287 | 12.6 | 0 | C | 7.1 | -14 | 136 | -4.9 | 5.1 | -0.6 | 1 | C |
| 13 | 284 | 12.4 | 0 | C | 7.0 | -5 | 143 | -5.2 | 4.0 | 0.4 | 2 | C |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 270 | 12.4 | 0 | C | 6.7 | -2 | 154 | -6.0 | 2.9 | 0.6 | 1 | C |
| 16 | 280 | 13.3 | 0 | C | 6.6 | -3 | 154 | -5.9 | 2.8 | 0.7 | 1 | C |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 305 | 18.2 | 0 | C | 6.5 | -30 | 146 | -4.6 | 4.3 | -1.2 | 0 | C |
| 21 | 305 | 18.2 | 0 | C | 4.6 | -43 | 156 | -3.0 | 2.7 | -1.8 | 2 | C |
| 22 | 313 | 23.2 | 0 | C | 3.6 | -43 | 169 | -2.5 | 1.7 | -1.7 | 1 | C |
| 23 | 314 | 25.7 | 0 | C | 4.6 | -76 | 47 | 0.7 | 3.1 | -3.1 | 1 | C |
| 24 | 317 | 26.9 | 0 | C | 4.9 | -81 | 50 | 0.5 | 3.2 | -3.6 | 0 | C |

**ORIGINAL PAGE IS OF POOR QUALITY**

03/25/81 – 04/01/81

MAR. 25, 1981

84

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 332 | 34.0 | 0 | C | | | | | | | | |
| 8 | 332 | 34.0 | 0 | C | 14.7 | 25 | 313 | 8.5 | -10.2 | 3.0 | 4 | C |
| 9 | 352 | 26.7 | 0 | C | 15.8 | 4 | 308 | 9.2 | -11.6 | -1.9 | 4 | C |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 446 | 17.8 | 0 | C | 15.0 | 15 | 315 | 8.2 | -8.7 | 0.6 | 7 | C |
| 16 | 446 | 17.8 | 0 | C | 14.3 | 15 | 315 | 7.8 | -8.3 | 0.2 | 8 | C |
| 17 | 476 | 16.9 | 0 | C | 14.2 | 35 | 323 | 7.4 | -7.7 | 3.8 | 7 | C |
| 18 | 471 | 17.0 | 0 | C | 15.1 | 54 | 38 | 4.2 | -0.2 | 8.2 | 8 | C |
| 19 | 582 | 21.7 | 0 | C | 15.7 | 18 | 294 | 4.6 | -10.8 | -1.6 | 8 | C |
| 20 | 600 | 17.0 | 0 | C | 13.7 | -44 | 307 | 4.6 | -1.4 | -9.7 | 6 | C |
| 21 | 626 | 13.7 | 0 | C | 12.8 | -12 | 339 | 4.7 | -0.9 | -1.8 | 10 | C |
| 22 | 587 | 12.9 | 0 | C | 12.8 | -23 | 348 | 7.7 | 0.5 | -3.7 | 8 | C |
| 23 | 581 | 12.2 | 0 | C | 13.6 | 2 | 1 | 12.5 | -0.1 | 0.4 | 4 | C |
| 24 | 557 | 11.8 | 0 | C | 13.8 | 2 | 338 | 11.7 | -4.2 | -2.3 | 4 | C |

MAR. 26, 1981

85

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 554 | 9.6 | 0 | C | 14.8 | -1 | 321 | 10.8 | -7.2 | -5.1 | 4 | C |
| 2 | 553 | 8.1 | 0 | C | 15.5 | -12 | 326 | 12.3 | -5.4 | -7.0 | 2 | C |
| 3 | 555 | 7.7 | 0 | C | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 322 | 6.7 | 0 | C | | | | | | | | |
| 8 | 322 | 6.7 | 0 | C | 11.3 | -5 | 354 | 11.0 | -0.8 | -1.3 | 1 | C |
| 9 | 450 | 6.4 | 0 | C | 11.0 | -1 | 325 | 8.7 | -5.8 | -1.6 | 3 | C |
| 10 | 451 | 6.7 | 0 | C | 10.0 | 25 | 312 | 4.8 | -6.0 | 2.2 | 4 | C |
| 11 | 555 | 6.9 | 0 | C | | | | | | | | |
| 12 | 551 | 6.9 | 0 | C | 10.9 | 25 | 294 | 3.4 | -8.5 | 2.2 | 4 | C |
| 13 | 551 | 6.9 | 0 | C | 10.3 | -33 | 310 | 4.5 | -4.2 | -5.7 | 5 | C |
| 14 | 559 | 5.9 | 0 | C | 10.4 | -41 | 307 | 3.9 | -3.6 | -6.8 | 4 | C |
| 15 | 555 | 5.4 | 0 | C | 10.3 | 2 | 310 | 4.0 | -4.7 | -1.1 | 7 | C |
| 16 | 550 | 6.0 | 0 | C | 10.5 | -19 | 328 | 7.0 | -3.2 | -4.2 | 5 | C |
| 17 | 544 | 6.7 | 0 | C | 8.5 | -16 | 341 | 6.1 | -1.2 | -2.5 | 4 | C |
| 18 | 437 | 5.5 | 0 | C | 7.3 | -12 | 1 | 6.5 | 0.7 | -1.2 | 2 | C |
| 19 | 498 | 4.9 | 0 | C | 7.1 | -9 | 26 | 5.5 | 2.8 | 0.4 | 3 | C |
| 20 | 512 | 4.4 | 0 | C | 7.1 | 25 | 335 | 5.0 | -3.3 | 1.0 | 3 | C |
| 21 | 535 | 3.7 | 0 | C | 6.9 | 0 | 322 | 5.1 | -3.3 | -2.1 | 2 | C |
| 22 | 535 | 3.5 | 0 | C | 6.7 | 9 | 322 | 4.8 | -3.7 | -1.4 | 2 | C |
| 23 | 508 | 3.5 | 0 | C | 6.8 | 0 | 316 | 4.1 | -3.3 | -2.3 | 3 | C |
| 24 | 541 | 3.2 | 0 | C | 6.7 | 7 | 311 | 3.7 | -3.8 | -1.8 | 3 | C |

MAR. 27, 1981

86

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 515 | 3.0 | 0 | C | 6.5 | 23 | 307 | 3.3 | -4.9 | -0.5 | 2 | C |
| 2 | 474 | 3.2 | 0 | C | 6.3 | 4 | 320 | 4.3 | -3.3 | -1.5 | 2 | C |
| 3 | 453 | 3.5 | 0 | C | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 508 | 2.7 | 0 | C | 6.4 | -27 | 347 | 5.4 | -0.3 | -3.1 | 1 | C |
| 8 | 508 | 2.7 | 0 | C | 6.5 | -22 | 350 | 5.8 | -0.3 | -2.6 | 1 | C |
| 9 | 427 | 2.8 | 0 | C | 6.2 | -6 | 348 | 6.0 | -1.1 | -0.9 | 1 | C |
| 10 | 498 | 2.5 | 0 | C | 6.2 | 7 | 2 | 6.1 | -0.0 | 0.8 | 1 | C |
| 11 | 504 | 2.6 | 0 | C | 6.1 | 9 | 8 | 5.9 | 0.7 | 1.1 | 1 | C |
| 12 | 484 | 2.8 | 0 | C | 6.0 | 5 | 0 | 5.6 | -0.1 | 0.5 | 2 | C |
| 13 | 506 | 3.2 | 50 | J | 6.1 | 4 | 341 | 5.2 | -1.8 | -0.1 | 2 | C |
| 14 | 499 | 2.7 | 0 | C | 6.0 | -6 | 348 | 5.2 | -1.0 | -0.9 | 2 | C |
| 15 | 484 | 2.6 | 0 | C | 6.0 | -1 | 358 | 5.8 | -0.2 | -0.1 | 1 | C |
| 16 | 477 | 2.5 | 0 | C | 6.1 | -10 | 356 | 5.9 | -0.1 | -1.2 | 1 | C |
| 17 | 467 | 2.9 | 84 | J | 6.2 | -16 | 352 | 5.8 | -0.1 | -1.9 | 1 | C |
| 18 | 480 | 2.5 | 0 | C | 6.1 | -13 | 356 | 5.4 | 0.2 | -1.3 | 2 | J |
| 19 | | | | | 5.8 | -8 | 6 | 5.1 | 0.8 | -0.4 | 3 | J |
| 20 | 449 | 2.4 | 0 | C | 6.1 | 21 | 5 | 5.7 | -0.7 | 2.1 | 0 | C |
| 21 | 449 | 2.4 | 0 | C | 6.3 | -4 | 331 | 5.3 | -2.2 | -2.0 | 2 | C |
| 22 | 466 | 3.8 | 35 | J | 6.8 | 9 | 319 | 4.7 | -3.9 | -1.5 | 2 | J |
| 23 | 452 | 2.6 | 0 | C | 6.5 | 12 | 354 | 6.0 | -1.3 | 0.7 | 2 | C |
| 24 | 455 | 2.6 | 0 | C | 6.4 | -1 | 359 | 5.9 | -0.0 | -0.2 | 2 | C |

MAR. 28, 1981

87

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 456 | 2.8 | 0 | C | 6.5 | -7 | 355 | 6.1 | -0.0 | -0.9 | 2 | C |
| 2 | 448 | 2.9 | 0 | C | 6.4 | -10 | 7 | 6.1 | 1.2 | -0.5 | 1 | C |
| 3 | 438 | 3.0 | 0 | C | 6.3 | 0 | 11 | 6.1 | 1.0 | 0.6 | 1 | C |
| 4 | 432 | 2.7 | 52 | J | 6.0 | 0 | 350 | 5.5 | -0.9 | -0.4 | 2 | J |
| 5 | 429 | 2.4 | 39 | J | 5.8 | 1 | 328 | 4.4 | -2.6 | -1.0 | 2 | J |
| 6 | 438 | 2.4 | 68 | L | 6.6 | 12 | 308 | 3.9 | -5.2 | -0.5 | 1 | J |
| 7 | 422 | 2.8 | 40 | J | 6.4 | 13 | 336 | 5.4 | -2.7 | 0.5 | 2 | J |
| 8 | 426 | 2.9 | 35 | J | 6.2 | 14 | 350 | 5.7 | -1.4 | 1.1 | 2 | J |
| 9 | 442 | 3.0 | 50 | J | 6.5 | 2 | 312 | 4.0 | -4.4 | -0.9 | 2 | J |
| 10 | 498 | 3.9 | 55 | J | 6.3 | -18 | 275 | 0.5 | -4.9 | -2.9 | 3 | J |
| 11 | 413 | 3.0 | 30 | J | 6.2 | 4 | 334 | 5.5 | -2.7 | -0.1 | 1 | J |
| 12 | 412 | 2.8 | 28 | J | 6.2 | 5 | 337 | 5.6 | -2.4 | 0.0 | 1 | J |
| 13 | 430 | 3.4 | 0 | C | 6.4 | 11 | 345 | 6.0 | -1.8 | 0.9 | 0 | C |
| 14 | 467 | 4.3 | 48 | J | 6.2 | -23 | 262 | -0.8 | -4.7 | -3.6 | 2 | J |
| 15 | 424 | 3.9 | 0 | C | 6.4 | -11 | 270 | 0.0 | -5.3 | -2.7 | 2 | C |
| 16 | 408 | 4.4 | 0 | C | 6.4 | -5 | 286 | 1.7 | -5.3 | -2.4 | 2 | C |
| 17 | 415 | 4.2 | 0 | C | 6.4 | -1 | 303 | 3.4 | -4.8 | -2.1 | 1 | C |
| 18 | 403 | 4.6 | 39 | J | 6.7 | 6 | 329 | 5.6 | -3.4 | -0.8 | 1 | J |
| 19 | 410 | 4.7 | 46 | J | 6.3 | 12 | 332 | 5.1 | -3.0 | -0.2 | 2 | J |
| 20 | 442 | 5.4 | 75 | J | 5.3 | 2 | 295 | 1.8 | -3.3 | -1.8 | 3 | J |
| 21 | 420 | 5.0 | 45 | J | 5.3 | -23 | 320 | 3.5 | -1.4 | -3.2 | 2 | J |
| 22 | 411 | 5.2 | 39 | J | 5.6 | -28 | 357 | 4.4 | 1.1 | -2.1 | 3 | J |
| 23 | 411 | 5.1 | 50 | J | 5.4 | 16 | 303 | 2.1 | -3.4 | -1.0 | 3 | J |
| 24 | 407 | 5.6 | 55 | J | 5.6 | 5 | 320 | 4.0 | -3.1 | -1.5 | 2 | J |

MAR. 29, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 411 | 5.0 | 48 | J | 5.5 | 24 | 323 | 3.0 | -2.8 | 0.1 | 4 | J |
| 2 | 429 | 5.6 | 52 | J | 5.6 | -1 | 277 | 0.6 | -4.1 | -2.6 | 3 | J |
| 3 | 406 | 5.0 | 44 | J | 6.1 | 9 | 308 | 3.3 | -4.2 | -1.4 | 3 | J |
| 4 | 426 | 4.9 | 42 | J | 6.2 | 4 | 314 | 3.7 | -3.6 | -1.4 | 3 | J |
| 5 | 410 | 7.1 | 0 | C | 7.1 | 1 | 296 | 2.7 | -4.9 | -2.1 | 3 | C |
| 6 | 406 | 6.8 | 0 | C | 7.9 | -25 | 298 | 2.9 | -4.1 | -4.7 | 3 | C |
| 7 | 402 | 6.5 | 0 | C | 7.9 | -45 | 289 | 1.7 | -3.1 | -6.4 | 3 | C |
| 8 | 413 | 5.9 | 35 | J | 7.7 | -34 | 300 | 3.0 | -4.0 | -5.3 | 3 | J |
| 9 | 423 | 6.2 | 41 | J | 7.5 | 26 | 287 | 1.5 | -5.4 | 1.3 | 5 | J |
| 10 | 417 | 6.4 | 38 | J | 8.4 | -18 | 294 | 3.0 | -6.0 | -3.8 | 3 | J |
| 11 | 411 | 6.1 | 41 | J | 8.4 | -49 | 326 | 4.5 | -1.7 | -6.8 | 1 | J |
| 12 | 416 | 7.3 | 62 | J | 7.9 | -51 | 295 | 2.0 | -3.0 | -6.6 | 2 | J |
| 13 | 412 | 7.7 | 58 | J | 7.6 | -29 | 297 | 2.9 | -4.8 | -4.7 | 2 | J |
| 14 | 401 | 9.0 | 0 | C | 7.5 | -43 | 311 | 3.2 | -2.3 | -5.3 | 2 | C |
| 15 | 414 | 9.2 | 69 | J | 7.3 | -66 | 354 | 2.8 | 1.5 | -6.0 | 3 | J |
| 16 | 434 | 10.6 | 98 | J | 7.0 | -8 | 89 | 0.1 | 6.5 | 1.3 | 2 | J |
| 17 | 421 | 10.6 | 78 | J | 6.2 | -45 | 37 | 2.0 | 2.3 | -1.7 | 5 | J |
| 18 | 416 | 10.3 | 80 | J | 5.7 | -43 | 269 | -0.1 | -2.0 | -5.1 | 1 | J |
| 19 | 422 | 9.9 | 113 | J | 5.4 | -37 | 299 | 1.7 | -1.4 | -3.8 | 3 | J |
| 20 | 418 | 8.9 | 86 | J | 6.8 | -10 | 307 | 3.1 | -3.0 | -2.9 | 4 | J |
| 21 | 424 | 9.0 | 77 | J | 5.9 | 71 | 31 | 1.5 | -2.0 | 4.8 | 2 | J |
| 22 | 426 | 8.9 | 93 | J | 5.9 | 82 | 32 | 0.6 | -2.7 | 4.7 | 2 | J |
| 23 | 427 | 6.9 | 88 | J | 6.3 | 76 | 18 | 1.4 | -3.0 | 5.2 | 1 | J |
| 24 | 420 | 6.7 | 80 | J | 6.4 | 63 | 300 | 1.4 | -5.0 | 3.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 419 | 6.2 | 82 | J | 5.8 | 29 | 285 | 1.2 | -5.3 | -0.3 | 2 | J |
| 2 | 422 | 5.1 | 83 | J | 5.1 | -18 | 269 | -0.1 | -2.8 | -3.4 | 3 | J |
| 3 | 419 | 5.6 | 68 | J | 4.9 | -1 | 277 | 0.6 | -3.9 | -2.3 | 2 | J |
| 4 | 419 | 5.2 | 64 | J | 5.2 | 43 | 278 | 0.5 | -4.9 | 1.4 | 1 | J |
| 5 | 407 | 5.2 | 70 | J | 5.3 | 44 | 277 | 0.4 | -4.7 | 1.7 | 2 | J |
| 6 | 379 | 6.2 | 0 | C | 5.8 | -1 | 282 | 1.2 | -5.1 | -2.0 | 1 | C |
| 7 | 385 | 8.3 | 32 | J | 6.1 | 9 | 285 | 1.5 | -5.6 | -0.9 | 1 | J |
| 8 | 382 | 8.3 | 35 | J | 6.4 | 0 | 290 | 2.2 | -5.8 | -1.6 | 1 | J |
| 9 | 372 | 7.4 | 0 | C | 7.2 | 4 | 272 | 0.2 | -7.0 | -1.1 | 1 | C |
| 10 | 371 | 7.4 | 0 | C | 7.7 | 9 | 283 | 1.6 | -7.0 | -0.4 | 2 | C |
| 11 | 385 | 7.5 | 31 | J | 7.4 | -7 | 274 | 0.5 | -6.7 | -2.3 | 2 | J |
| 12 | 364 | 6.8 | 0 | C | 8.0 | -43 | 336 | 4.6 | -1.0 | -5.0 | 4 | C |
| 13 | 375 | 7.2 | 0 | C | 7.1 | 1 | 298 | 3.1 | -5.7 | -1.2 | 2 | C |
| 14 | 399 | 8.2 | 53 | J | 6.8 | -2 | 270 | -0.0 | -6.2 | -1.8 | 2 | J |
| 15 | 394 | 8.4 | 81 | J | 6.3 | 5 | 277 | 0.7 | -6.0 | -1.2 | 1 | J |
| 16 | 379 | 8.8 | 0 | C | 5.8 | -10 | 303 | 2.4 | -3.2 | -1.9 | 3 | C |
| 17 | 375 | 8.9 | 0 | C | 7.0 | 8 | 265 | -0.5 | -5.3 | -1.4 | 3 | C |
| 18 | | | | | | | | | | | | |
| 19 | 309 | 14.5 | 112 | J | 12.2 | -7 | 320 | 7.7 | -5.1 | -4.2 | 7 | J |
| 20 | 310 | 10.6 | 0 | C | 11.5 | -7 | 293 | 4.1 | -7.7 | -6.1 | 3 | C |
| 21 | 424 | 10.2 | 159 | J | 9.8 | -28 | 276 | 0.7 | -3.7 | -6.7 | 6 | J |
| 22 | 428 | 10.0 | 235 | J | 8.7 | -38 | 279 | 0.9 | -2.2 | -6.9 | 5 | J |
| 23 | 436 | 8.5 | 215 | J | 8.5 | 0 | 261 | -1.1 | -5.9 | -4.1 | 4 | J |
| 24 | 426 | 6.9 | 217 | J | 8.0 | 60 | 336 | 2.2 | -3.2 | 2.9 | 6 | J |

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90

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 412 | 5.6 | 87 | J | 8.5 | -31 | 277 | 0.7 | -3.0 | -6.3 | 5 | J |
| 2 | 420 | 6.1 | 79 | J | 10.0 | -44 | 259 | -1.4 | -2.3 | -9.4 | 2 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 380 | 4.0 | 0 | C | | | | | | | | |
| 6 | 380 | 4.0 | 0 | C | 8.2 | 54 | 10 | 4.4 | -1.5 | 6.0 | 3 | C |
| 7 | 398 | 4.6 | 70 | J | 7.7 | 44 | 353 | 5.4 | -2.3 | 4.8 | 2 | J |
| 8 | 410 | 6.1 | 88 | J | 6.0 | 21 | 333 | 4.6 | -2.8 | 1.3 | 2 | J |
| 9 | 412 | 7.3 | 0 | C | 5.3 | -22 | 319 | 3.1 | -2.3 | -2.3 | 2 | C |
| 10 | 405 | 6.9 | 64 | J | 4.9 | -3 | 342 | 4.6 | -1.4 | -0.6 | 1 | J |
| 11 | 404 | 7.8 | 62 | J | 5.6 | 19 | 337 | 4.6 | -2.3 | 1.3 | 2 | J |
| 12 | 420 | 9.1 | 87 | J | 6.7 | -29 | 331 | 5.0 | -2.1 | -3.6 | 1 | J |
| 13 | 419 | 8.8 | 80 | J | 6.6 | -33 | 324 | 4.4 | -2.3 | -4.2 | 1 | J |
| 14 | 420 | 10.9 | 75 | J | 6.9 | -7 | 305 | 3.7 | -4.9 | -2.1 | 2 | J |
| 15 | 423 | 10.4 | 64 | J | 8.1 | 44 | 313 | 2.4 | -3.4 | 2.5 | 6 | J |
| 16 | 425 | 10.1 | 60 | J | 8.9 | -34 | 306 | 4.1 | -3.8 | -6.4 | 3 | J |
| 17 | 410 | 10.1 | 0 | C | 8.8 | 3 | 309 | 4.9 | -5.7 | -1.9 | 4 | C |
| 18 | 441 | 6.9 | 83 | J | 10.2 | -14 | 297 | 4.0 | -6.1 | -5.3 | 5 | J |
| 19 | | | | | | | | | | | | |
| 20 | 488 | 3.5 | 126 | J | 10.5 | -10 | 297 | 4.1 | -6.1 | -5.5 | 5 | J |
| 21 | 487 | 3.3 | 160 | J | 10.7 | 4 | 284 | 2.5 | -8.9 | -4.9 | 2 | J |
| 22 | 486 | 4.2 | 133 | J | 10.8 | -3 | 282 | 2.1 | -8.2 | -6.2 | 2 | C |
| 23 | 465 | 3.4 | 0 | C | 10.2 | -5 | 281 | 1.8 | -7.1 | -6.0 | 3 | C |
| 24 | 468 | 2.8 | 129 | J | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 487 | 2.3 | 105 | J | 9.1 | -9 | 297 | 3.9 | -5.7 | -5.3 | 3 | J |
| 2 | | | | | 9.5 | -15 | 289 | 2.9 | -5.9 | -6.4 | 2 | J |
| 3 | 489 | 2.0 | 78 | J | 9.1 | -14 | 296 | 3.5 | -5.3 | -5.3 | 3 | J |
| 4 | 493 | 2.2 | 73 | J | 9.2 | -3 | 300 | 4.5 | -6.8 | -3.9 | 2 | J |
| 5 | 505 | 2.4 | 77 | J | 8.9 | -9 | 302 | 4.3 | -5.8 | -3.9 | 3 | J |
| 6 | 544 | 3.1 | 114 | J | 7.4 | 25 | 316 | 4.4 | -5.0 | 1.2 | 3 | J |
| 7 | 537 | 3.3 | 121 | J | 6.8 | 2 | 308 | 3.9 | -4.8 | -1.3 | 3 | J |
| 8 | 531 | 3.3 | 150 | J | 6.0 | 12 | 327 | 3.9 | -2.7 | 0.3 | 4 | J |
| 9 | 506 | 4.0 | 161 | J | 5.9 | -11 | 253 | -1.5 | -4.6 | -2.1 | 3 | J |
| 10 | 582 | 3.7 | 0 | C | 6.9 | -8 | 240 | -2.7 | -4.4 | -1.7 | 4 | C |
| 11 | 547 | 3.6 | 0 | C | 6.9 | -5 | 242 | -3.2 | -5.8 | -1.8 | 0 | C |
| 12 | | | | | | | | | | | | |
| 13 | 603 | 2.6 | 179 | J | 7.2 | 5 | 295 | 2.8 | -5.9 | -0.7 | 3 | J |
| 14 | 581 | 3.0 | 0 | C | 7.0 | 9 | 305 | 3.8 | -5.5 | -0.3 | 2 | J |
| 15 | 586 | 2.6 | 180 | J | 6.5 | 28 | 333 | 4.6 | -3.1 | 2.0 | 3 | J |
| 16 | 586 | 2.3 | 235 | J | 6.2 | -27 | 316 | 3.2 | -2.2 | -3.2 | 4 | J |
| 17 | 593 | 2.5 | 245 | J | 6.8 | -10 | 312 | 4.3 | -4.0 | -2.9 | 2 | J |
| 18 | 578 | 2.3 | 138 | J | 6.6 | 5 | 333 | 5.2 | -2.6 | -0.7 | 3 | J |
| 19 | 593 | 2.5 | 178 | J | 7.3 | -24 | 330 | 4.3 | -1.1 | -3.1 | 5 | J |
| 20 | 587 | 2.2 | 131 | J | 7.7 | 7 | 315 | 5.3 | -5.0 | -1.9 | 2 | J |
| 21 | 559 | 2.7 | 0 | C | 7.5 | 17 | 354 | 6.1 | -1.6 | 1.3 | 3 | C |
| 22 | 555 | 2.4 | 0 | C | 7.5 | 6 | 327 | 6.0 | -3.6 | -1.6 | 2 | C |
| 23 | 565 | 2.5 | 0 | C | 7.4 | -32 | 10 | 5.1 | 2.6 | -2.2 | 3 | C |
| 24 | 577 | 2.4 | 0 | C | 7.8 | 21 | 339 | 6.5 | -3.6 | 0.8 | 2 | J |

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92

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 587 | 1.7 | 97 | J | 7.5 | 14 | 344 | 6.7 | -2.6 | 0.4 | 2 | J |
| 2 | 590 | 1.6 | 84 | J | 7.7 | 26 | 347 | 6.7 | -3.1 | 2.0 | 1 | J |
| 3 | 586 | 1.5 | 82 | J | 7.6 | 29 | 344 | 6.3 | -3.4 | 2.3 | 1 | J |
| 4 | 585 | 1.4 | 101 | J | 7.5 | 32 | 335 | 5.6 | -4.1 | 2.3 | 2 | J |
| 5 | 564 | 1.4 | 74 | J | 7.2 | 3 | 342 | 6.6 | -2.1 | -0.5 | 2 | J |
| 6 | 553 | 1.9 | 0 | C | 7.6 | 20 | 341 | 6.6 | -3.0 | 1.6 | 1 | C |
| 7 | 521 | 2.1 | 186 | L | 7.0 | -12 | 337 | 6.2 | -2.1 | -2.2 | 1 | J |
| 8 | 522 | 2.4 | 0 | C | 6.7 | -16 | 344 | 6.0 | -1.2 | -2.2 | 2 | J |
| 9 | 503 | 2.0 | 148 | L | 6.8 | -4 | 342 | 5.9 | -1.8 | -0.9 | 3 | J |
| 10 | 440 | 2.9 | 0 | C | 7.2 | 14 | 331 | 5.8 | -3.5 | 1.0 | 1 | C |
| 11 | 523 | 2.7 | 66 | J | 6.6 | 26 | 322 | 4.5 | -4.0 | 2.0 | 1 | J |
| 12 | 519 | 2.6 | 59 | J | 6.4 | 11 | 316 | 4.2 | -4.2 | 0.3 | 3 | J |
| 13 | 515 | 3.3 | 74 | J | 6.4 | -11 | 298 | 2.7 | -4.7 | -2.2 | 3 | J |
| 14 | 478 | 3.4 | 0 | C | 6.5 | -18 | 293 | 2.4 | -4.9 | -3.3 | 1 | J |
| 15 | 478 | 3.1 | 55 | J | 6.1 | 7 | 353 | 5.5 | -0.8 | 0.5 | 2 | J |
| 16 | 474 | 3.0 | 0 | C | 6.3 | 10 | 348 | 5.8 | -1.5 | 0.6 | 1 | C |
| 17 | 492 | 2.9 | 0 | C | 6.4 | 9 | 328 | 4.8 | -3.1 | -0.3 | 2 | C |
| 18 | 457 | 3.1 | 35 | J | 6.2 | 10 | 343 | 5.6 | -2.0 | 0.2 | 2 | J |
| 19 | 459 | 2.7 | 43 | J | 6.1 | 31 | 356 | 4.9 | -1.7 | 2.4 | 2 | J |
| 20 | 507 | 2.8 | 0 | C | 6.4 | 51 | 14 | 3.9 | -1.7 | 4.7 | 0 | C |
| 21 | 483 | 2.7 | 0 | C | 6.2 | 39 | 334 | 3.9 | -3.6 | 2.0 | 2 | C |
| 22 | 479 | 3.0 | 47 | J | 5.8 | 12 | 303 | 2.7 | -4.0 | -1.4 | 3 | J |
| 23 | 494 | 3.2 | 55 | J | 5.9 | 18 | 286 | 1.3 | -4.7 | -1.3 | 3 | J |
| 24 | 456 | 2.7 | 43 | J | 5.7 | 37 | 335 | 3.8 | -3.3 | 1.6 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 2.9 | 101 | L | 5.3 | 37 | 304 | 2.1 | -4.2 | 0.7 | 2 | J |
| 2 | 467 | 3.3 | 0 | C | 5.4 | 14 | 347 | 5.1 | -1.7 | 0.5 | 1 | J |
| 3 | 472 | 3.3 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 472 | 3.3 | 0 | C | 7.6 | 29 | 314 | 3.5 | -4.6 | 0.9 | 5 | C |
| 5 | 494 | 6.4 | 291 | L | 8.9 | 36 | 329 | 5.9 | -5.2 | 3.2 | 3 | J |
| 6 | 505 | 8.0 | 0 | C | 11.5 | 54 | 313 | 4.3 | -7.3 | 6.5 | 4 | J |
| 7 | 522 | 7.4 | 243 | L | 12.0 | 58 | 319 | 4.5 | -6.7 | 7.9 | 4 | J |
| 8 | 519 | 7.5 | 0 | C | 9.8 | 57 | 262 | -0.7 | -6.6 | 5.9 | 4 | J |
| 9 | 536 | 8.0 | 262 | L | 8.5 | 45 | 257 | -1.2 | -6.2 | 4.0 | 4 | J |
| 10 | 529 | 7.5 | 273 | L | 9.5 | 62 | 7 | 4.0 | -1.1 | 7.5 | 4 | J |
| 11 | 536 | 9.1 | 309 | L | 8.1 | 48 | 316 | 3.8 | -4.7 | 5.0 | 2 | J |
| 12 |  |  |  |  | 6.9 | 44 | 329 | 3.9 | -3.2 | 3.8 | 3 | J |
| 13 | 526 | 8.2 | 0 | C | 6.8 | -1 | 228 | -4.2 | -4.6 | -1.1 | 2 | C |
| 14 | 526 | 8.2 | 0 | C | 6.8 | -26 | 220 | -3.5 | -2.3 | -2.9 | 4 | J |
| 15 | 497 | 8.6 | 247 | L | 6.7 | 22 | 270 | -0.0 | -4.7 | 0.5 | 5 | J |
| 16 | 499 | 9.0 | 242 | L | 6.1 | 15 | 283 | 0.8 | -3.7 | -0.2 | 5 | J |
| 17 | 520 | 12.4 | 295 | L | 7.7 | -21 | 65 | 2.9 | 6.8 | -0.1 | 2 | J |
| 18 | 518 | 13.0 | 0 | C | 5.2 | -13 | 201 | -3.0 | -0.7 | -1.2 | 4 | C |
| 19 | 507 | 13.3 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 473 | 11.5 | 0 | C | 5.4 | 17 | 331 | 4.5 | -2.9 | 0.0 | 0 | C |
| 21 | 473 | 11.5 | 0 | C | 4.8 | 20 | 259 | -0.7 | -3.6 | -0.8 | 3 | C |
| 22 | 463 | 10.9 | 0 | C | 4.2 | -22 | 304 | 1.7 | -1.4 | -2.4 | 2 | C |
| 23 | 432 | 10.8 | 354 | L | 4.7 | -9 | 293 | 0.9 | -1.6 | -1.6 | 4 | C |
| 24 | 449 | 9.7 | 0 | C | 5.9 | 26 | 323 | 4.1 | -4.0 | 0.4 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 439 | 8.7 | 0 | C | 6.6 | 27 | 324 | 4.6 | -4.4 | 0.7 | 1 | C |
| 2 | 436 | 8.7 | 0 | C | 6.1 | 29 | 333 | 4.2 | -3.2 | 1.1 | 3 | C |
| 3 | 431 | 8.4 | 0 | C | 5.9 | -9 | 304 | 2.2 | -2.5 | -2.1 | 4 | C |
| 4 | 423 | 7.6 | 0 | C | 5.7 | 35 | 331 | 3.7 | -3.2 | 1.8 | 2 | C |
| 5 | 418 | 7.1 | 0 | C | 5.8 | 34 | 323 | 3.5 | -3.6 | 1.7 | 2 | C |
| 6 | 408 | 6.9 | 0 | C | 5.8 | 32 | 335 | 4.3 | -2.9 | 2.1 | 1 | C |
| 7 | 402 | 7.2 | 0 | C | 4.8 | 17 | 328 | 3.7 | -2.6 | 0.6 | 1 | C |
| 8 | 385 | 8.3 | 306 | L | 4.0 | 25 | 333 | 3.1 | -1.9 | 1.2 | 1 | C |
| 9 | 407 | 10.2 | 0 | C | 3.1 | -10 | 111 | -0.7 | 1.9 | 0.1 | 2 | C |
| 10 | 353 | 11.7 | 258 | L | 3.2 | -6 | 266 | -0.0 | -0.6 | -0.2 | 3 | C |
| 11 | 392 | 11.0 | 0 | C | 3.8 | 2 | 287 | 1.1 | -3.6 | -0.6 | 0 | C |
| 12 | 392 | 10.6 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 386 | 8.2 | 0 | C | 5.4 | -30 | 162 | -4.0 | 1.8 | -2.1 | 2 | C |
| 14 | 386 | 8.4 | 0 | C | 5.9 | -8 | 114 | -2.4 | 5.4 | 0.5 | 0 | C |
| 15 | 387 | 7.8 | 0 | C | 6.5 | -8 | 112 | -2.4 | 6.0 | 0.8 | 1 | C |
| 16 | 394 | 8.4 | 0 | C | 6.2 | -13 | 107 | -1.7 | 5.9 | 0.6 | 1 | C |
| 17 | 399 | 9.7 | 0 | C | 4.1 | -10 | 117 | -1.4 | 2.7 | 0.5 | 3 | C |
| 18 | 395 | 10.7 | 0 | C |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 382 | 6.0 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 382 | 6.0 | 0 | C | 6.8 | 2 | 280 | 0.9 | -4.1 | -2.4 | 5 | C |
| 22 | 398 | 6.5 | 0 | C | 6.6 | 39 | 82 | 0.6 | 1.5 | 4.8 | 4 | C |
| 23 | 393 | 3.7 | 0 | C | 7.4 | 6 | 106 | -2.0 | 5.2 | 4.5 | 1 | C |
| 24 | 409 | 3.0 | 0 | C | 7.5 | -14 | 125 | -4.2 | 5.9 | 1.8 | 1 | C |

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95

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 3.6 | 0 | C | 7.2 | 0 | 119 | -3.4 | 5.1 | 3.4 | 1 | C |
| 2 | 420 | 3.7 | 0 | C | 7.2 | 7 | 119 | -3.3 | 4.7 | 3.9 | 1 | C |
| 3 | 406 | 4.4 | 0 | C | 7.1 | 33 | 130 | -3.6 | 2.0 | 5.3 | 2 | C |
| 4 | 423 | 4.3 | 0 | C | 6.7 | 60 | 150 | -2.6 | -1.0 | 5.5 | 2 | C |
| 5 | 446 | 3.6 | 0 | C | 7.6 | 41 | 121 | -2.7 | 2.3 | 6.0 | 3 | C |
| 6 | 451 | 3.5 | 0 | C | 8.2 | 16 | 101 | -1.4 | 6.4 | 4.8 | 1 | C |
| 7 | 443 | 3.6 | 0 | C | 8.3 | 12 | 108 | -2.4 | 6.6 | 3.8 | 2 | C |
| 8 | 438 | 3.5 | 0 | C | 7.8 | 4 | 109 | -2.4 | 6.6 | 2.3 | 2 | C |
| 9 | 434 | 3.4 | 0 | C | 7.6 | -6 | 107 | -2.2 | 6.9 | 0.8 | 1 | C |
| 10 | 436 | 3.5 | 0 | C | 7.0 | 8 | 132 | -4.2 | 4.3 | 1.7 | 2 | C |
| 11 | 436 | 3.5 | 0 | C | 6.7 | 30 | 172 | -4.8 | 0.1 | 2.9 | 3 | C |
| 12 | 431 | 3.2 | 0 | C | 6.5 | 14 | 132 | -4.0 | 4.0 | 2.3 | 2 | C |
| 13 | 436 | 3.2 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 444 | 3.7 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 444 | 3.7 | 0 | C | 5.5 | 17 | 160 | -4.8 | 1.2 | 2.0 | 1 | C |
| 16 | 421 | 3.6 | 0 | C | 5.4 | -13 | 145 | -4.1 | 3.1 | -0.1 | 2 | C |
| 17 | 439 | 3.6 | 0 | C | 5.4 | -16 | 104 | -1.2 | 5.1 | 0.5 | 1 | C |
| 18 | 439 | 3.9 | 0 | C | 5.5 | -1 | 138 | -3.8 | 3.1 | 1.4 | 2 | C |
| 19 | 428 | 4.2 | 0 | C | 5.8 | -24 | 147 | -4.4 | 3.6 | -0.7 | 0 | C |
| 20 | 440 | 4.6 | 0 | C | 5.8 | -27 | 170 | -4.3 | 1.8 | -1.5 | 2 | C |
| 21 | 438 | 4.5 | 0 | C | 6.2 | -20 | 112 | -2.0 | 5.2 | 1.0 | 2 | C |
| 22 | 435 | 4.2 | 0 | C | 6.3 | -23 | 129 | -3.3 | 4.7 | 0.4 | 2 | C |
| 23 | 437 | 4.1 | 0 | C | 6.1 | -18 | 129 | -3.6 | 4.7 | 1.0 | 1 | C |
| 24 | 438 | 4.0 | 0 | C | 6.3 | -27 | 148 | -4.7 | 4.0 | -0.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 4.2 | 0 | C | 6.1 | -9 | 156 | -4.9 | 2.3 | 0.4 | 3 | C |
| 2 | 442 | 4.7 | 0 | C | 6.4 | -17 | 115 | -2.4 | 5.3 | 1.1 | 2 | C |
| 3 | 441 | 5.2 | 0 | C | 6.6 | -23 | 119 | -2.4 | 4.8 | 0.2 | 3 | C |
| 4 | 440 | 6.1 | 0 | C | 6.5 | 18 | 120 | -2.2 | 2.8 | 3.0 | 4 | C |
| 5 | 446 | 8.5 | 0 | C | 8.5 | -15 | 111 | -2.5 | 6.9 | 0.8 | 4 | C |
| 6 | 447 | 10.3 | 0 | C | 9.4 | -30 | 148 | -6.5 | 5.3 | -2.8 | 3 | C |
| 7 | 450 | 9.7 | 0 | C | 8.2 | 34 | 102 | -0.5 | 1.9 | 2.4 | 7 | C |
| 8 | 448 | 9.2 | 0 | C | 8.0 | -5 | 111 | -2.5 | 6.5 | 1.0 | 3 | C |
| 9 | 440 | 9.0 | 0 | C | 7.1 | -10 | 160 | -3.8 | 1.5 | -0.4 | 5 | C |
| 10 | 428 | 8.7 | 0 | C | 7.1 | 17 | 130 | -4.0 | 4.2 | 2.8 | 2 | C |
| 11 | 419 | 8.4 | 0 | C | 7.0 | 12 | 181 | -6.1 | -0.4 | 1.3 | 3 | C |
| 12 | 421 | 8.2 | 0 | C | 5.4 | 5 | 120 | -1.2 | 2.0 | 0.6 | 4 | C |
| 13 | 428 | 8.0 | 0 | C | 6.3 | -27 | 108 | -1.6 | 5.5 | -1.6 | 2 | C |
| 14 | 424 | 7.4 | 0 | C | 6.3 | 5 | 84 | 0.5 | 4.5 | 1.6 | 3 | C |
| 15 | 424 | 7.3 | 0 | C | 5.8 | 3 | 94 | -0.3 | 4.2 | 1.5 | 3 | C |
| 16 | 425 | 7.9 | 0 | C | 5.9 | 36 | 120 | -2.1 | 2.5 | 4.1 | 2 | C |
| 17 | 420 | 8.4 | 0 | C | 6.3 | 53 | 173 | -3.2 | -1.2 | 4.1 | 3 | C |
| 18 | 411 | 8.3 | 0 | C | 6.7 | 40 | 148 | -4.1 | 0.7 | 4.8 | 2 | C |
| 19 | 407 | 8.6 | 0 | C | 6.2 | 25 | 128 | -2.9 | 2.3 | 3.6 | 3 | C |
| 20 | 405 | 8.9 | 0 | C | 5.8 | 2 | 79 | 1.0 | 4.5 | 2.9 | 2 | C |
| 21 | 391 | 8.3 | 0 | C | 5.7 | 26 | 138 | -1.8 | 0.7 | 1.9 | 5 | C |
| 22 | 378 | 7.7 | 0 | C | 6.2 | 26 | 134 | -3.7 | 1.8 | 4.3 | 1 | C |
| 23 | 375 | 7.0 | 0 | C | 5.6 | -18 | 154 | -4.5 | 2.8 | -0.1 | 2 | C |
| 24 | 377 | 7.0 | 0 | C | 4.3 | 38 | 120 | -1.2 | 0.7 | 2.6 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 6.9 | 0 | C | 4.0 | -11 | 148 | -2.1 | 1.4 | 0.3 | 3 | C |
| 2 | 371 | 6.5 | 0 | C | 4.0 | -7 | 121 | -1.4 | 2.1 | 0.9 | 2 | C |
| 3 | 371 | 6.5 | 0 | C | 5.0 | -7 | 83 | 0.5 | 4.5 | 1.8 | 1 | C |
| 4 | 371 | 6.8 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 371 | 6.8 | 0 | C | 4.5 | -25 | 148 | -3.1 | 2.5 | -0.8 | 1 | C |
| 6 | 370 | 6.8 | 0 | C | 4.5 | 12 | 125 | -1.9 | 2.3 | 1.6 | 3 | C |
| 7 | 374 | 6.7 | 0 | C | 4.8 | -20 | 92 | -0.1 | 4.1 | -0.2 | 2 | C |
| 8 | 374 | 7.1 | 0 | C | 4.8 | -11 | 120 | -2.1 | 3.7 | 0.1 | 2 | C |
| 9 | 368 | 7.6 | 0 | C | 4.6 | 3 | 141 | -3.1 | 2.4 | 0.8 | 2 | C |
| 10 | 373 | 7.7 | 0 | C | 4.7 | 30 | 206 | -3.4 | -2.0 | 1.8 | 2 | C |
| 11 | 371 | 8.2 | 0 | C | 4.7 | 12 | 208 | -3.8 | -2.2 | 0.5 | 1 | C |
| 12 | 366 | 9.3 | 0 | C | 5.5 | -14 | 211 | -3.7 | -2.0 | -1.5 | 3 | C |
| 13 | 370 | 8.2 | 0 | C | 5.9 | 3 | 120 | -2.2 | 3.8 | 1.1 | 4 | C |
| 14 | 381 | 8.2 | 0 | C | 5.7 | 64 | 81 | 0.3 | 0.9 | 4.6 | 2 | C |
| 15 | 386 | 8.9 | 0 | C | 6.2 | 23 | 272 | 0.1 | -4.1 | 0.5 | 4 | C |
| 16 | 384 | 9.4 | 0 | C | 6.3 | 50 | 267 | -0.2 | -4.4 | 2.7 | 3 | C |
| 17 | 386 | 10.9 | 0 | C | 6.3 | 77 | 106 | -0.4 | -1.0 | 6.0 | 1 | C |
| 18 | 385 | 10.0 | 0 | C | 6.5 | 26 | 80 | 0.8 | 3.4 | 4.2 | 3 | C |
| 19 | 392 | 10.8 | 0 | C | 5.9 | -20 | 67 | 2.1 | 5.3 | 0.6 | 1 | C |
| 20 | 454 | 12.5 | 0 | C | 12.8 | -29 | 62 | 5.1 | 11.4 | -0.3 | 0 | C |
| 21 | 454 | 12.5 | 0 | C | 13.1 | -4 | 89 | 0.2 | 10.9 | 5.8 | 3 | C |
| 22 | 439 | 10.9 | 0 | C | 14.2 | 26 | 124 | -6.6 | 5.0 | 10.1 | 4 | C |
| 23 | 441 | 10.6 | 0 | C | 13.7 | -7 | 107 | -3.5 | 10.4 | 5.2 | 5 | C |
| 24 | 450 | 10.5 | 0 | C | 12.4 | -1 | 115 | -4.8 | 8.5 | 5.4 | 5 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 436 | 11.7 | 0 | C | 10.6 | 29 | 136 | -6.3 | 2.5 | 7.4 | 3 | C |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 413 | 7.0 | 0 | C | 10.4 | -29 | 118 | -4.2 | 9.2 | -2.4 | 0 | C |
| 8 | 413 | 7.0 | 0 | C | 10.3 | -18 | 119 | -4.7 | 8.8 | -0.9 | 2 | C |
| 9 | 425 | 7.1 | 0 | C | 9.9 | 10 | 141 | -7.2 | 5.3 | 2.9 | 3 | C |
| 10 | 414 | 6.2 | 0 | C | 9.2 | -21 | 139 | -6.2 | 5.8 | -2.1 | 2 | C |
| 11 | 403 | 5.5 | 0 | C | 8.9 | -2 | 155 | -7.6 | 3.5 | 0.4 | 2 | C |
| 12 | 403 | 4.9 | 0 | C | 8.3 | 6 | 172 | -8.1 | 1.0 | 1.0 | 1 | C |
| 13 | 426 | 4.1 | 0 | C | 8.3 | 13 | 184 | -8.0 | -1.0 | 1.7 | 1 | C |
| 14 | 413 | 5.4 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 399 | 4.1 | 0 | C | 7.9 | -4 | 147 | -6.6 | 4.2 | 0.6 | 1 | C |
| 16 | 395 | 3.7 | 0 | C | 7.6 | -11 | 145 | -6.0 | 4.4 | -0.0 | 1 | C |
| 17 | 423 | 4.0 | 0 | C | 7.5 | -45 | 135 | -3.3 | 4.8 | -3.2 | 3 | C |
| 18 | 433 | 6.1 | 0 | C | 7.2 | -73 | 84 | 0.2 | 4.6 | -5.2 | 1 | C |
| 19 | 419 | 6.8 | 0 | C | 7.0 | -52 | 139 | -2.9 | 4.5 | -3.2 | 3 | C |
| 20 | 406 | 6.9 | 0 | C | 6.7 | -21 | 146 | -5.1 | 4.2 | -0.3 | 0 | C |
| 21 | 383 | 7.9 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 383 | 7.9 | 0 | C | 6.9 | -4 | 197 | -6.5 | -1.4 | -1.5 | 1 | C |
| 23 | 392 | 6.8 | 0 | C | 7.1 | -30 | 194 | -5.9 | 0.8 | -3.8 | 1 | C |
| 24 | 387 | 6.5 | 0 | C | 7.0 | -25 | 199 | -6.0 | -0.1 | -3.6 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 393 | 6.4 | 0 | C | 7.0 | -17 | 201 | -6.2 | -0.9 | -3.0 | 1 | C |
| 2 | 387 | 7.0 | 0 | C | 6.9 | -25 | 217 | -4.5 | -1.6 | -4.0 | 2 | C |
| 3 | 378 | 6.6 | 0 | C | 6.9 | -12 | 210 | -5.5 | -2.1 | -2.7 | 1 | C |
| 4 | 379 | 5.4 | 0 | C | 7.6 | -1 | 215 | -6.1 | -3.7 | -1.9 | 2 | C |
| 5 | 388 | 4.8 | 0 | C | 8.0 | 23 | 192 | -7.1 | -2.6 | 2.2 | 1 | C |
| 6 | 389 | 5.0 | 0 | C | 8.0 | 23 | 200 | -6.7 | -3.3 | 2.0 | 2 | C |
| 7 | 387 | 5.0 | 0 | C | 8.3 | 22 | 177 | -7.6 | -0.5 | 3.1 | 1 | C |
| 8 | 389 | 5.0 | 0 | C | 8.6 | 26 | 163 | -7.4 | 1.2 | 4.1 | 1 | C |
| 9 | 396 | 5.1 | 0 | C | 9.4 | 24 | 157 | -7.2 | 2.2 | 4.1 | 2 | J |
| 10 | 393 | 5.1 | 0 | C | 9.5 | 29 | 161 | -7.3 | 1.6 | 4.7 | 2 | J |
| 11 | 378 | 4.1 | 95 | L | 9.8 | 34 | 170 | -7.6 | 0.4 | 5.4 | 2 | J |
| 12 | 378 | 4.3 | 74 | L | 9.3 | 15 | 140 | -6.4 | 4.9 | 3.2 | 2 | J |
| 13 | 413 | 6.6 | 26 | J | 9.0 | -21 | 116 | -3.6 | 7.8 | -1.6 | 2 | J |
| 14 | 442 | 7.2 | 135 | J | 6.5 | 53 | 201 | -3.5 | -2.5 | 4.6 | 2 | J |
| 15 | 455 | 6.7 | 148 | J | 5.5 | 45 | 175 | -3.1 | -0.6 | 3.1 | 3 | J |
| 16 | 433 | 7.8 | 149 | J | 6.5 | 9 | 119 | -3.1 | 4.9 | 2.7 | 1 | J |
| 17 | 424 | 6.5 | 92 | J | 6.9 | -3 | 130 | -4.3 | 4.9 | 1.6 | 2 | J |
| 18 | 427 | 7.0 | 151 | J | 7.1 | -4 | 130 | -4.4 | 5.0 | 1.8 | 1 | J |
| 19 | 428 | 6.3 | 117 | J | 6.8 | 0 | 123 | -3.6 | 4.9 | 2.6 | 1 | J |
| 20 | 430 | 7.0 | 162 | J | 5.8 | 1 | 125 | -3.2 | 3.9 | 2.4 | 2 | J |
| 21 | 473 | 6.2 | 83 | J | 4.5 | 10 | 97 | -0.5 | 2.9 | 2.7 | 2 | J |
| 22 | 457 | 5.8 | 141 | J | 4.3 | -2 | 151 | -3.1 | 1.5 | 0.8 | 3 | J |
| 23 | 440 | 5.1 | 106 | J | 4.6 | 4 | 131 | -2.5 | 2.2 | 1.8 | 3 | J |
| 24 | 456 | 6.3 | 187 | J | 5.0 | 10 | 99 | -0.6 | 2.7 | 2.5 | 3 | J |

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100

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 430 | 4.4 | 73 | J | 5.1 | -6 | 132 | -3.1 | 3.2 | 1.4 | 2 | J |
| 2 | 453 | 5.0 | 0 | C | 5.3 | -3 | 121 | -2.5 | 3.8 | 1.9 | 1 | C |
| 3 | 458 | 5.0 | 0 | C | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 409 | 4.9 | 39 | J | 4.7 | 5 | 179 | -4.5 | -0.1 | 0.4 | 1 | J |
| 6 | 448 | 5.5 | 75 | J | 5.9 | -7 | 63 | 2.5 | 4.9 | 1.0 | 2 | J |
| 7 | | | | | | | | | | | | |
| 8 | 428 | 6.1 | 75 | J | 6.2 | 2 | 119 | -1.5 | 2.6 | 0.8 | 5 | J |
| 9 | 432 | 6.6 | 70 | J | 5.0 | -23 | 82 | 0.5 | 4.1 | -0.8 | 3 | J |
| 10 | 437 | 8.5 | 86 | J | 4.7 | -26 | 357 | 3.1 | 0.1 | -1.5 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | 412 | 8.5 | 43 | J | 4.3 | 63 | 22 | 1.7 | 0.0 | 3.6 | 1 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 404 | 7.4 | 0 | C | | | | | | | | |
| 17 | 391 | 7.3 | 97 | J | 5.4 | 25 | 171 | -4.5 | -0.1 | 2.2 | 2 | J |
| 18 | 382 | 6.6 | 68 | J | 4.8 | -5 | 171 | -4.5 | 0.8 | -0.1 | 2 | J |
| 19 | 376 | 7.5 | 35 | J | 5.3 | 0 | 194 | -4.9 | -1.1 | -0.6 | 1 | J |
| 20 | 380 | 6.9 | 54 | J | 5.8 | 16 | 183 | -5.4 | -1.0 | 1.2 | 1 | J |
| 21 | 395 | 7.5 | 0 | C | 6.1 | 1 | 174 | -6.0 | 0.4 | 0.4 | 0 | C |
| 22 | 376 | 6.6 | 38 | J | 5.6 | 10 | 183 | -5.3 | -0.7 | 0.6 | 1 | J |
| 23 | 399 | 8.5 | 54 | J | 6.3 | 38 | 142 | -3.2 | 0.3 | 4.0 | 4 | J |
| 24 | 413 | 8.3 | 52 | J | 6.9 | 41 | 105 | -1.2 | 1.5 | 5.6 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 388 | 9.1 | 65 | J | 7.3 | 29 | 136 | -4.3 | 1.8 | 5.1 | 2 | J |
| 2 | 382 | 8.6 | 44 | J | 8.2 | 26 | 147 | -5.8 | 1.5 | 4.8 | 3 | J |
| 3 | 377 | 9.6 | 61 | J | 8.4 | 19 | 157 | -7.2 | 1.4 | 3.8 | 1 | J |
| 4 | 380 | 8.2 | 46 | J | 9.0 | 24 | 158 | -7.5 | 1.2 | 4.5 | 2 | J |
| 5 | 375 | 9.1 | 26 | J | 9.4 | 25 | 159 | -7.9 | 1.3 | 4.8 | 1 | J |
| 6 | 383 | 12.4 | 0 | C | 9.5 | 14 | 181 | -4.5 | -0.4 | 1.0 | 8 | C |
| 7 | 381 | 12.5 | 0 | C | 9.8 | 17 | 158 | -6.7 | 1.9 | 2.8 | 6 | C |
| 8 | 395 | 13.1 | 0 | C | 10.4 | -4 | 55 | 5.5 | 7.6 | 1.3 | 4 | C |
| 9 | 391 | 13.5 | 0 | C | 10.3 | -40 | 182 | -3.7 | 0.5 | -3.1 | 9 | C |
| 10 | 419 | 12.0 | 35 | J | 10.9 | -9 | 56 | 5.9 | 8.9 | 0.0 | 2 | J |
| 11 | 418 | 17.0 | 57 | J | 9.7 | -12 | 75 | 2.3 | 8.7 | -0.3 | 4 | J |
| 12 | 412 | 13.5 | 46 | J | 10.5 | -42 | 67 | 3.0 | 8.1 | -5.4 | 2 | J |
| 13 | 416 | 14.6 | 33 | J | 10.1 | -28 | 65 | 3.7 | 8.8 | -3.0 | 1 | J |
| 14 | 459 | 28.9 | 0 | C | 15.7 | -20 | 53 | 7.3 | 10.5 | -2.2 | 10 | C |
| 15 | 504 | 41.4 | 0 | C | 21.4 | -4 | 265 | -1.8 | -17.4 | -6.1 | 10 | C |
| 16 | 507 | 35.9 | 0 | C | 23.6 | 51 | 217 | -10.4 | -12.5 | 12.6 | 11 | C |
| 17 | 509 | 27.1 | 0 | C | 23.5 | 50 | 166 | -13.1 | -2.7 | 16.0 | 9 | C |
| 18 | 511 | 19.7 | 132 | J | 26.7 | 9 | 95 | -2.2 | 21.3 | 14.2 | 7 | J |
| 19 | 500 | 30.4 | 137 | J | 23.6 | -2 | 95 | -2.0 | 21.1 | 10.1 | 3 | J |
| 20 | 496 | 41.8 | 126 | J | 21.8 | 3 | 106 | -5.9 | 17.2 | 11.2 | 5 | J |
| 21 | 503 | 21.4 | 68 | J | 28.2 | -6 | 103 | -6.3 | 24.7 | 11.9 | 3 | J |
| 22 | 511 | 29.7 | 0 | C | 28.4 | -14 | 99 | -4.3 | 26.3 | 9.0 | 4 | J |
| 23 | 480 | 70.3 | 139 | J | 19.7 | -37 | 70 | 5.1 | 17.7 | -1.6 | 7 | J |
| 24 | 501 | 54.3 | 78 | J | 26.4 | -34 | 359 | 21.6 | 7.6 | -12.4 | 5 | J |

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102

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 533 | 43.5 | 0 | C | 25.0 | -52 | 5 | 15.0 | 11.2 | -15.6 | 6 | C |
| 2 | 529 | 26.0 | 0 | C | 25.0 | -57 | 1 | 13.6 | 10.6 | -17.8 | 2 | C |
| 3 | 528 | 21.2 | 0 | C | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 497 | 43.7 | 21 | J | 19.0 | 64 | 184 | -8.3 | -6.2 | 15.8 | 2 | J |
| 7 | 477 | 24.1 | 31 | J | 18.5 | 42 | 144 | -8.4 | 3.2 | 10.6 | 12 | J |
| 8 | 453 | 18.1 | 27 | J | 16.8 | -37 | 105 | -3.4 | 15.0 | -6.6 | 2 | J |
| 9 | 443 | 12.9 | 20 | J | 16.8 | -45 | 95 | -1.0 | 13.9 | -9.0 | 2 | J |
| 10 | | | | | | | | | | | | |
| 11 | 419 | 14.6 | 22 | J | 18.4 | -61 | 82 | 1.2 | 11.5 | -14.2 | 2 | J |
| 12 | 452 | 21.5 | 30 | J | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 511 | 20.8 | 0 | C | 3.1 | -33 | 123 | -0.6 | 1.0 | -0.4 | 2 | C |
| 16 | 511 | 20.8 | 0 | C | 5.0 | -15 | 278 | 0.3 | -2.0 | -1.3 | 3 | C |
| 17 | 529 | 30.1 | 0 | C | 4.2 | -9 | 334 | 2.4 | -1.0 | -0.8 | 3 | C |
| 18 | 481 | 25.0 | 25 | J | 10.0 | 48 | 335 | 5.8 | -5.4 | 5.4 | 3 | J |
| 19 | 466 | 24.2 | 42 | J | 8.9 | -38 | 181 | -5.8 | 2.0 | -4.1 | 5 | J |
| 20 | 465 | 15.1 | 54 | J | 10.3 | -39 | 167 | -7.7 | 4.7 | -4.7 | 2 | J |
| 21 | 503 | 19.2 | 0 | C | 7.3 | -47 | 213 | -3.2 | 0.4 | -4.5 | 5 | C |
| 22 | 483 | 17.2 | 0 | C | 13.8 | 1 | 146 | -9.3 | 5.2 | 3.7 | 8 | C |
| 23 | 574 | 23.7 | 0 | C | 18.7 | 54 | 26 | 7.9 | -3.5 | 12.2 | 9 | C |
| 24 | 669 | 62.9 | 0 | C | 23.6 | -58 | 163 | -9.1 | 10.6 | -11.3 | 15 | C |

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103

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 581 | 23.5 | 0 | C | 31.6 | -65 | 200 | -12.0 | 10.7 | -25.5 | 9 | C |
| 2 | 576 | 18.2 | 0 | C | 30.2 | -72 | 158 | -8.7 | 17.2 | -22.7 | 4 | C |
| 3 | 609 | 30.0 | 0 | C | 25.5 | -47 | 86 | 1.2 | 22.6 | -7.7 | 8 | C |
| 4 | 633 | 37.1 | 0 | C | 19.6 | -52 | 324 | 9.3 | 0.1 | -16.3 | 4 | C |
| 5 | 636 | 31.5 | 0 | C | 16.4 | -44 | 300 | 5.3 | -4.7 | -13.1 | 5 | C |
| 6 | 618 | 24.7 | 0 | C | 13.2 | -41 | 251 | -2.6 | -5.0 | -9.3 | 6 | C |
| 7 | 585 | 20.6 | 0 | C | 14.7 | -69 | 273 | 0.2 | -1.1 | -14.6 | 0 | C |
| 8 | 593 | 26.8 | 0 | C | 12.5 | -38 | 274 | 0.6 | -5.9 | -7.5 | 8 | C |
| 9 | 622 | 33.1 | 0 | C | 3.7 | -4 | 252 | -0.7 | -2.1 | -0.6 | 3 | C |
| 10 | 626 | 30.4 | 0 | C | 5.7 | -21 | 217 | -4.1 | -2.7 | -2.5 | 1 | C |
| 11 | 625 | 28.3 | 0 | C | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 607 | 27.0 | 0 | C | | | | | | | | |
| 14 | 607 | 27.0 | 0 | C | 3.8 | 16 | 249 | -1.0 | -2.6 | 0.2 | 2 | C |
| 15 | 584 | 23.2 | 0 | C | 7.9 | 46 | 14 | 4.7 | -0.2 | 5.1 | 4 | C |
| 16 | 536 | 13.0 | 0 | C | 9.9 | 61 | 20 | 4.4 | -1.1 | 8.5 | 2 | C |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 495 | 10.4 | 0 | C | 7.9 | -16 | 46 | 5.0 | 5.5 | 0.8 | 2 | C |
| 21 | 516 | 11.3 | 51 | J | 8.8 | -40 | 59 | 3.2 | 7.3 | -1.7 | 3 | J |
| 22 | 516 | 4.3 | 48 | J | 9.7 | -76 | 134 | -1.6 | 6.3 | -6.7 | 3 | J |
| 23 | 520 | 1.3 | 76 | J | 10.0 | -67 | 176 | -3.9 | 5.2 | -7.5 | 1 | J |
| 24 | 321 | 5.7 | 0 | C | 9.5 | -63 | 166 | -4.2 | 5.5 | -6.5 | 0 | J |

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104

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 395 | 5.0 | 0 | C | 9.4 | -57 | 155 | -4.6 | 6.0 | -5.6 | 0 | C |
| 2 | 448 | 4.1 | 0 | C | 9.2 | -54 | 151 | -4.7 | 6.0 | -5.2 | 0 | C |
| 3 | | | | | 9.1 | -48 | 145 | -5.0 | 6.2 | -4.3 | 0 | C |
| 4 | 354 | 5.2 | 0 | C | 9.0 | -45 | 142 | -5.0 | 6.2 | -4.1 | 0 | C |
| 5 | 354 | 5.2 | 0 | C | 8.8 | -54 | 150 | -4.2 | 4.7 | -5.3 | 3 | C |
| 6 | 397 | 6.4 | 0 | C | 8.1 | -35 | 130 | -4.2 | 6.1 | -2.7 | 2 | C |
| 7 | 492 | 2.4 | 36 | J | 7.9 | 24 | 311 | 4.4 | -5.7 | 1.5 | 3 | J |
| 8 | 470 | 8.7 | 37 | J | 6.6 | 47 | 308 | 2.4 | -4.0 | 3.3 | 4 | J |
| 9 | 470 | 13.0 | 34 | J | 4.7 | 11 | 152 | -1.9 | 0.9 | 0.6 | 4 | J |
| 10 | 497 | 7.9 | 26 | J | 6.5 | -11 | 145 | -5.2 | 3.8 | -0.5 | 0 | C |
| 11 | 473 | 7.6 | 0 | C | 11.6 | -5 | 132 | -7.7 | 8.7 | 0.5 | 1 | C |
| 12 | 478 | 6.4 | 0 | C | 9.2 | 9 | 146 | -7.5 | 4.8 | 2.2 | 1 | C |
| 13 | 481 | 6.6 | 0 | C | | | | | | | | |
| 14 | 481 | 6.6 | 0 | C | 7.5 | -39 | 151 | -5.1 | 3.8 | -4.0 | 1 | C |
| 15 | 515 | 4.6 | 93 | J | 7.8 | -37 | 149 | -5.0 | 4.0 | -3.5 | 2 | C |
| 16 | 502 | 4.4 | 108 | J | 7.1 | -53 | 177 | -3.3 | 1.5 | -4.1 | 4 | C |
| 17 | 511 | 5.6 | 106 | J | 6.9 | 12 | 151 | -5.7 | 2.5 | 2.4 | 1 | C |
| 18 | 520 | 4.1 | 60 | J | 7.2 | -7 | 153 | -6.1 | 3.2 | 0.5 | 2 | C |
| 19 | 488 | 4.2 | 90 | J | 7.5 | 1 | 135 | -5.2 | 4.5 | 2.5 | 2 | C |
| 20 | 491 | 4.0 | 56 | J | 8.1 | 23 | 176 | -7.1 | -1.1 | 2.9 | 2 | C |
| 21 | 522 | 3.3 | 59 | J | 7.9 | -13 | 154 | -6.8 | 3.7 | 0.2 | 1 | C |
| 22 | 518 | 3.3 | 48 | J | 7.8 | -5 | 143 | -6.1 | 4.2 | 1.9 | 1 | C |
| 23 | 514 | 3.3 | 50 | J | 8.0 | 4 | 146 | -6.4 | 3.3 | 2.8 | 2 | C |
| 24 | 510 | 3.2 | 45 | J | 7.9 | 18 | 146 | -6.2 | 2.2 | 4.2 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 513 | 3.0 | 46 | J | 7.7 | 13 | 158 | -6.8 | 1.5 | 2.9 | 1 | C |
| 2 | | | | | | | | | | | | |
| 3 | 514 | 3.3 | 47 | J | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 522 | 3.4 | 78 | J | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 519 | 3.7 | 0 | C | | | | | | | | |
| 8 | 519 | 3.7 | 0 | C | 6.4 | 77 | 280 | 0.2 | -2.7 | 5.4 | 2 | C |
| 9 | 501 | 3.7 | 0 | C | 6.3 | 25 | 153 | -4.8 | 1.9 | 2.9 | 2 | C |
| 10 | 480 | 3.9 | 57 | J | 5.9 | 52 | 165 | -3.4 | 0.1 | 4.5 | 1 | C |
| 11 | 516 | 8.2 | 115 | J | 9.2 | 11 | 137 | -5.9 | 5.2 | 2.5 | 4 | C |
| 12 | 503 | 7.1 | 87 | J | 10.8 | 22 | 143 | -7.0 | 4.7 | 4.5 | 4 | C |
| 13 | 490 | 8.6 | 0 | C | 9.8 | 52 | 194 | -5.2 | -2.6 | 6.4 | 4 | C |
| 14 | 505 | 8.2 | 0 | C | 9.1 | 48 | 192 | -4.8 | -2.2 | 5.2 | 5 | C |
| 15 | 484 | 7.6 | 105 | J | 8.4 | 40 | 223 | -3.1 | -3.7 | 2.7 | 6 | C |
| 16 | 463 | 6.8 | 44 | J | 8.0 | 25 | 181 | -6.7 | -1.1 | 2.9 | 2 | C |
| 17 | 478 | 7.0 | 0 | C | 7.2 | 16 | 158 | -4.2 | 1.1 | 1.8 | 5 | C |
| 18 | 469 | 8.0 | 132 | J | 7.7 | 19 | 147 | -5.9 | 2.5 | 3.8 | 2 | C |
| 19 | 459 | 7.2 | 55 | J | 8.0 | 10 | 159 | -7.2 | 1.9 | 2.5 | 1 | C |
| 20 | 460 | 7.0 | 53 | J | 7.7 | 16 | 169 | -7.2 | 0.2 | 2.5 | 1 | C |
| 21 | 462 | 7.1 | 62 | J | 7.7 | 5 | 152 | -6.5 | 2.6 | 2.3 | 2 | C |
| 22 | 466 | 6.5 | 77 | J | 7.8 | 9 | 157 | -6.5 | 1.7 | 2.4 | 3 | C |
| 23 | 464 | 6.1 | 45 | J | 7.5 | 23 | 152 | -5.7 | 1.0 | 3.9 | 2 | C |
| 24 | 477 | 6.5 | 89 | J | 7.4 | 3 | 179 | -5.8 | -0.0 | 0.3 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 467 | 6.6 | 92 | J | 7.2 | 28 | 182 | -5.2 | -1.6 | 2.3 | 3 | C |
| 2 | 464 | 6.1 | 0 | C | 7.2 | -5 | 168 | -6.3 | 1.5 | 0.2 | 3 | C |
| 3 | 487 | 5.9 | 0 | C | 7.6 | 51 | 202 | -3.9 | -3.7 | 3.8 | 3 | C |
| 4 | 506 | 5.9 | 0 | C | 7.6 | 59 | 196 | -3.1 | -3.0 | 4.5 | 4 | C |
| 5 | 504 | 6.2 | 0 | C | 8.0 | 43 | 247 | -2.0 | -6.2 | 2.7 | 3 | C |
| 6 | 496 | 6.3 | 0 | C | 8.0 | 47 | 209 | -3.7 | -3.4 | 3.7 | 4 | C |
| 7 | 484 | 5.2 | 84 | J | 7.7 | 37 | 187 | -4.4 | -1.5 | 3.1 | 5 | C |
| 8 | 493 | 5.4 | 99 | J | 7.7 | 36 | 150 | -5.2 | 2.0 | 5.0 | 1 | C |
| 9 | 513 | 5.7 | 113 | J | 8.0 | 32 | 144 | -4.9 | 2.7 | 4.4 | 3 | C |
| 10 | 529 | 7.0 | 202 | J | 8.2 | -17 | 241 | -2.4 | -4.0 | -2.3 | 6 | C |
| 11 | 539 | 6.6 | 0 | C | 8.0 | -66 | 154 | -0.7 | 0.7 | -1.8 | 7 | C |
| 12 | 536 | 6.7 | 0 | C | 6.7 | -26 | 215 | -4.1 | -2.4 | -2.9 | 3 | C |
| 13 | 532 | 6.7 | 0 | C | 6.3 | 24 | 195 | -3.6 | -1.2 | 1.5 | 4 | C |
| 14 | 529 | 6.6 | 0 | C | 7.0 | 40 | 219 | -3.9 | -3.9 | 3.3 | 2 | C |
| 15 | 526 | 6.6 | 0 | C | 7.0 | 17 | 201 | -5.2 | -2.4 | 1.2 | 3 | C |
| 16 | 515 | 6.5 | 0 | C | 7.1 | 12 | 180 | -6.6 | -0.4 | 1.4 | 2 | C |
| 17 | 513 | 6.3 | 0 | C | 6.9 | 26 | 149 | -5.0 | 1.8 | 3.7 | 2 | C |
| 18 | 515 | 6.1 | 0 | C | 7.5 | 2 | 132 | -4.8 | 4.8 | 2.4 | 2 | C |
| 19 | 516 | 5.7 | 0 | C | 7.6 | -17 | 125 | -3.7 | 5.7 | 0.6 | 2 | C |
| 20 | 516 | 5.2 | 0 | C | 7.6 | -35 | 114 | -2.3 | 6.3 | -0.9 | 2 | C |
| 21 | 514 | 4.9 | 0 | C | 7.3 | -16 | 122 | -3.5 | 5.9 | 1.3 | 1 | C |
| 22 | 511 | 4.6 | 0 | C | 7.2 | -30 | 116 | -2.6 | 6.3 | -0.1 | 2 | C |
| 23 | 509 | 4.3 | 0 | C | 6.7 | -13 | 120 | -3.0 | 5.1 | 1.7 | 2 | C |
| 24 | 507 | 4.2 | 0 | C | 6.4 | -15 | 139 | -3.3 | 3.1 | 0.6 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 501 | 4.2 | 0 | C | 6.4 | 0 | 143 | -4.7 | 3.0 | 1.8 | 2 | C |
| 2 | 474 | 4.2 | 0 | C | 6.1 | -19 | 129 | -3.6 | 4.7 | 0.5 | 1 | C |
| 3 | 434 | 3.9 | 0 | C | 7.5 | -5 | 136 | -5.1 | 4.7 | 1.7 | 2 | C |
| 4 | 455 | 3.3 | 0 | C | 8.5 | -37 | 156 | -6.0 | 4.5 | -3.4 | 2 | C |
| 5 | 417 | 3.2 | 0 | C | 7.5 | -43 | 166 | -5.3 | 3.1 | -4.2 | 1 | C |
| 6 | 375 | 4.7 | 0 | C | 7.4 | -32 | 150 | -5.2 | 4.1 | -2.7 | 2 | C |
| 7 | 416 | 7.3 | 0 | C | 7.8 | -71 | 160 | -2.3 | 2.8 | -6.6 | 2 | C |
| 8 | 421 | 6.6 | 0 | C | 7.6 | -83 | 171 | -0.9 | 1.9 | -7.2 | 0 | C |
| 9 | 386 | 4.5 | 0 | C | 6.4 | -25 | 193 | -5.3 | -0.7 | -2.8 | 2 | C |
| 10 | 410 | 3.6 | 0 | C | 5.3 | -42 | 182 | -3.9 | 0.5 | -3.5 | 0 | C |
| 11 | 433 | 3.2 | 0 | C | 5.9 | -53 | 115 | -1.5 | 3.8 | -4.0 | 1 | C |
| 12 | 468 | 2.9 | 0 | C | 3.5 | -50 | 72 | 0.7 | 2.4 | -2.2 | 1 | C |
| 13 | 457 | 3.6 | 0 | C | 3.1 | -53 | 87 | 0.1 | 1.8 | -1.7 | 1 | C |
| 14 | 439 | 4.0 | 0 | C | 6.2 | -52 | 108 | -1.1 | 4.3 | -3.8 | 1 | C |
| 15 | 426 | 4.4 | 0 | C | 6.3 | -58 | 132 | -2.2 | 3.7 | -4.4 | 1 | C |
| 16 | 390 | 5.2 | 0 | C | 7.3 | -16 | 197 | -5.5 | -1.1 | -2.1 | 4 | C |
| 17 | 400 | 5.1 | 0 | C | 7.3 | -39 | 40 | 4.3 | 4.9 | -2.9 | 1 | C |
| 18 | 401 | 5.1 | 0 | C | 6.6 | -36 | 40 | 4.0 | 4.6 | -2.1 | 1 | C |
| 19 | 394 | 5.3 | 0 | C | 7.0 | -35 | 54 | 3.3 | 6.0 | -1.5 | 0 | C |
| 20 | 407 | 5.3 | 0 | C | 6.9 | -44 | 97 | -0.5 | 6.3 | -1.7 | 2 | C |
| 21 | 431 | 5.3 | 0 | C | 9.0 | -52 | 84 | 0.6 | 7.7 | -3.0 | 4 | C |
| 22 | 448 | 5.3 | 0 | C | 13.5 | -25 | 82 | 1.8 | 13.2 | 1.6 | 1 | C |
| 23 | 457 | 4.8 | 0 | C | 13.4 | -21 | 80 | 2.1 | 12.8 | 2.7 | 2 | C |
| 24 | 466 | 4.6 | 0 | C | 12.7 | -10 | 84 | 1.3 | 11.5 | 4.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 470 | 4.8 | 0 | C | 11.6 | -20 | 84 | 1.2 | 11.0 | 2.2 | 2 | C |
| 2 | 460 | 5.2 | 0 | C | 11.6 | 4 | 96 | -1.1 | 8.5 | 5.7 | 5 | C |
| 3 | 460 | 6.2 | 0 | C | 10.1 | -1 | 92 | -0.4 | 8.2 | 3.9 | 4 | C |
| 4 | 466 | 6.9 | 0 | C | 10.1 | 7 | 80 | 1.6 | 8.1 | 5.0 | 2 | C |
| 5 | 447 | 6.5 | 0 | C | 9.5 | 10 | 89 | 0.1 | 6.9 | 4.3 | 4 | C |
| 6 | 427 | 6.1 | 0 | C | 10.0 | 9 | 112 | -3.8 | 8.1 | 4.3 | 1 | C |
| 7 | 423 | 5.2 | 0 | C | 9.9 | 24 | 115 | -3.7 | 6.5 | 5.9 | 2 | C |
| 8 | 427 | 4.8 | 0 | C | 9.5 | 28 | 114 | -3.3 | 6.3 | 6.0 | 2 | C |
| 9 | 425 | 5.4 | 0 | C | 8.9 | 39 | 106 | -1.9 | 5.2 | 6.5 | 2 | C |
| 10 | 420 | 5.4 | 0 | C | 8.2 | 29 | 103 | -1.5 | 5.8 | 4.7 | 2 | C |
| 11 | 417 | 4.5 | 0 | C | 8.6 | 42 | 113 | -2.4 | 4.7 | 6.3 | 2 | C |
| 12 | 426 | 3.7 | 0 | C | 8.1 | 29 | 99 | -1.0 | 5.7 | 4.6 | 3 | C |
| 13 | 429 | 4.3 | 0 | C | 7.5 | 26 | 108 | -1.9 | 5.3 | 4.0 | 3 | C |
| 14 | 406 | 5.6 | 0 | C | 7.2 | 11 | 114 | -2.8 | 5.9 | 2.6 | 1 | C |
| 15 | 435 | 6.5 | 0 | C | 7.6 | 2 | 107 | -2.2 | 6.8 | 2.0 | 1 | C |
| 16 | 477 | 9.6 | 0 | C | 11.7 | -23 | 88 | 0.3 | 10.7 | -1.1 | 4 | C |
| 17 | 481 | 12.0 | 0 | C | 11.2 | -20 | 143 | -7.4 | 6.4 | -1.3 | 5 | C |
| 18 | 477 | 12.7 | 0 | C | | | | | | | | |
| 19 | 484 | 13.2 | 0 | C | 10.1 | 28 | 174 | -8.8 | -1.3 | 4.7 | 1 | C |
| 20 | 485 | 13.4 | 0 | C | 7.9 | 67 | 112 | -0.9 | -0.8 | 5.9 | 5 | C |
| 21 | 485 | 14.4 | 0 | C | 6.8 | 68 | 318 | 1.1 | -2.8 | 2.7 | 5 | C |
| 22 | 487 | 16.4 | 0 | C | 5.2 | 84 | 239 | -0.2 | -2.6 | 3.4 | 3 | C |
| 23 | 477 | 16.3 | 0 | C | 6.4 | 41 | 66 | 1.2 | 0.9 | 3.7 | 5 | C |
| 24 | 480 | 14.7 | 0 | C | 7.3 | 21 | 50 | 2.3 | 1.6 | 2.6 | 6 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 498 | 13.9 | 0 | C | 7.8 | -67 | 264 | -0.2 | 0.8 | -5.7 | 5 | C |
| 2 | 502 | 13.6 | 0 | C | 9.5 | -42 | 290 | 2.4 | -2.6 | -8.5 | 2 | C |
| 3 | 486 | 14.0 | 0 | C | 10.8 | -29 | 305 | 4.5 | -3.9 | -6.8 | 6 | C |
| 4 | 468 | 9.6 | 0 | C | 10.3 | -24 | 339 | 8.3 | -1.3 | -4.8 | 3 | C |
| 5 | 471 | 10.4 | 0 | C | 10.4 | -13 | 33 | 8.3 | 5.8 | -0.2 | 1 | C |
| 6 | 473 | 10.9 | 0 | C | 10.5 | -9 | 46 | 7.2 | 7.5 | 0.8 | 2 | C |
| 7 | 470 | 11.3 | 0 | C | 8.1 | 13 | 51 | 4.5 | 4.9 | 3.1 | 3 | C |
| 8 | 482 | 13.4 | 0 | C | 4.6 | 28 | 24 | 2.8 | 0.8 | 1.9 | 3 | C |
| 9 | 486 | 14.9 | 0 | C | 4.8 | 25 | 285 | 0.7 | -3.0 | 0.8 | 3 | C |
| 10 | 494 | 16.9 | 0 | C | 6.4 | -29 | 306 | 2.8 | -3.3 | -3.2 | 3 | C |
| 11 | 508 | 15.9 | 0 | C | | | | | | | | |
| 12 | 521 | 10.8 | 0 | C | 11.0 | -39 | 290 | 2.4 | -5.7 | -6.9 | 5 | C |
| 13 | 504 | 6.2 | 0 | C | 13.3 | -25 | 252 | -3.4 | -9.6 | -7.0 | 4 | C |
| 14 | 466 | 4.0 | 0 | C | 12.1 | 21 | 225 | -6.6 | -7.1 | 2.1 | 6 | C |
| 15 | 461 | 5.2 | 0 | C | 12.6 | -6 | 242 | -5.6 | -9.9 | -3.7 | 4 | C |
| 16 | 442 | 6.2 | 0 | C | 12.9 | -14 | 243 | -5.5 | -9.5 | -6.1 | 2 | C |
| 17 | 433 | 4.6 | 0 | C | 13.0 | -15 | 233 | -7.3 | -8.1 | -6.4 | 3 | C |
| 18 | 439 | 3.1 | 0 | C | 12.8 | -3 | 225 | -9.0 | -8.0 | -4.2 | 1 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 422 | 3.1 | 0 | C | | | | | | | | |
| 22 | 422 | 3.1 | 0 | C | 11.2 | 15 | 182 | -10.7 | -1.8 | 2.2 | 1 | C |
| 23 | 426 | 3.1 | 0 | C | 10.9 | 1 | 190 | -10.7 | -1.6 | -0.9 | 1 | C |
| 24 | 426 | 3.2 | 0 | C | 10.9 | -11 | 179 | -10.6 | 1.2 | -1.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 421 | 3.2 | 0 | C | 11.1 | -23 | 175 | -10.1 | 3.0 | -3.3 | 1 | C |
| 2 | 428 | 4.1 | 0 | C | 10.3 | -48 | 179 | -6.7 | 3.8 | -6.6 | 1 | C |
| 3 | 442 | 3.1 | 0 | C | 11.6 | -53 | 178 | -6.8 | 4.2 | -8.0 | 2 | C |
| 4 | 442 | 3.1 | 0 | C | 13.5 | -54 | 180 | -7.9 | 4.4 | -9.8 | 1 | C |
| 5 | 489 | 6.5 | 0 | C | 13.0 | -59 | 275 | 0.5 | -2.1 | -11.6 | 5 | C |
| 6 | 489 | 6.5 | 0 | C | 13.0 | -29 | 293 | 4.2 | -7.6 | -8.8 | 3 | C |
| 7 | 462 | 8.0 | 0 | C | 11.6 | -8 | 317 | 7.4 | -6.2 | -3.1 | 5 | C |
| 8 | 453 | 7.9 | 0 | C | 12.0 | 34 | 352 | 9.5 | -2.7 | 5.9 | 3 | C |
| 9 | 475 | 9.5 | 0 | C | 10.6 | 26 | 342 | 7.8 | -3.3 | 3.4 | 4 | C |
| 10 | 467 | 11.7 | 0 | C | 10.0 | 7 | 320 | 6.2 | -5.3 | 0.2 | 5 | C |
| 11 | 463 | 11.6 | 0 | C | 11.1 | -23 | 309 | 6.0 | -6.8 | -5.2 | 3 | C |
| 12 | 483 | 11.2 | 0 | C | 12.4 | -19 | 318 | 7.2 | -6.0 | -4.4 | 6 | C |
| 13 | 473 | 11.6 | 0 | C | 11.0 | -2 | 348 | 10.2 | -2.2 | -0.7 | 3 | C |
| 14 | 469 | 11.4 | 0 | C | 11.2 | -2 | 336 | 9.2 | -4.1 | -1.2 | 4 | C |
| 15 | 486 | 9.6 | 0 | C | 11.3 | -25 | 311 | 6.4 | -6.1 | -6.2 | 2 | C |
| 16 | 506 | 8.7 | 0 | C | 11.7 | -17 | 314 | 7.6 | -6.4 | -5.5 | 2 | C |
| 17 | 515 | 8.5 | 0 | C | 11.6 | -13 | 308 | 6.7 | -7.2 | -5.2 | 3 | C |
| 18 | 522 | 7.5 | 0 | C | 11.7 | 5 | 316 | 7.7 | -7.1 | -2.0 | 4 | C |
| 19 | 545 | 6.9 | 0 | C | 12.5 | -6 | 320 | 8.8 | -6.2 | -4.3 | 4 | C |
| 20 | 551 | 7.1 | 0 | C | 11.9 | -21 | 314 | 6.3 | -4.0 | -6.1 | 6 | C |
| 21 | 557 | 6.9 | 0 | C | 11.4 | 3 | 319 | 7.6 | -6.0 | -2.9 | 4 | C |
| 22 | 526 | 6.8 | 0 | C | 11.4 | 25 | 344 | 9.6 | -4.8 | 2.6 | 2 | C |
| 23 | 535 | 6.9 | 0 | C | 10.8 | -15 | 330 | 7.2 | -2.4 | -4.1 | 6 | C |
| 24 | 568 | 7.0 | 0 | C | 10.4 | 23 | 315 | 5.7 | -6.6 | -0.1 | 5 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 573 | 6.8 | 0 | C | 10.4 | 25 | 321 | 6.6 | -6.5 | 0.7 | 3 | C |
| 2 | 575 | 6.5 | 0 | C | 10.4 | 34 | 328 | 6.0 | -5.6 | 2.4 | 5 | C |
| 3 | 581 | 6.2 | 0 | C | 11.0 | 7 | 330 | 7.7 | -4.5 | -0.9 | 6 | C |
| 4 | 602 | 5.4 | 0 | C | 11.4 | 0 | 323 | 8.3 | -5.7 | -2.5 | 4 | C |
| 5 | 634 | 4.7 | 0 | C | 11.5 | 15 | 316 | 7.3 | -7.5 | 0.0 | 4 | C |
| 6 | 636 | 4.6 | 0 | C | 11.2 | 6 | 331 | 9.1 | -5.1 | -0.5 | 3 | C |
| 7 | 645 | 4.7 | 0 | C | 11.0 | -2 | 328 | 8.5 | -5.0 | -1.6 | 3 | C |
| 8 | 672 | 4.3 | 0 | C | 11.4 | -24 | 306 | 5.6 | -6.7 | -5.9 | 3 | C |
| 9 | 694 | 4.0 | 0 | C | 10.9 | -38 | 310 | 4.5 | -4.2 | -6.3 | 5 | C |
| 10 | 681 | 4.2 | 0 | C | 10.3 | -33 | 306 | 4.1 | -4.7 | -5.2 | 5 | C |
| 11 | 682 | 4.2 | 0 | C | 10.0 | -18 | 332 | 6.5 | -3.0 | -2.8 | 5 | C |
| 12 | 698 | 3.7 | 0 | C | 9.3 | -2 | 312 | 4.7 | -5.2 | -1.1 | 5 | C |
| 13 | 702 | 3.2 | 0 | C | 9.6 | 7 | 313 | 5.2 | -5.7 | 0.0 | 5 | C |
| 14 | 649 | 3.2 | 0 | C | 9.2 | -11 | 315 | 5.6 | -5.2 | -2.7 | 4 | C |
| 15 | 697 | 2.9 | 0 | C | 9.4 | 3 | 311 | 4.9 | -5.5 | -0.9 | 5 | C |
| 16 | 743 | 2.6 | 0 | C | 8.9 | 10 | 314 | 4.9 | -5.2 | -0.2 | 4 | C |
| 17 | 663 | 3.2 | 0 | C | 8.2 | -5 | 332 | 6.2 | -2.8 | -1.6 | 3 | C |
| 18 | 714 | 2.5 | 351 | L | 7.6 | 2 | 338 | 5.9 | -2.3 | -0.7 | 4 | C |
| 19 | 790 | 2.7 | 506 | L | 7.2 | 7 | 347 | 5.8 | -1.5 | 0.0 | 3 | C |
| 20 | 763 | 2.2 | 434 | L | 7.1 | -2 | 342 | 6.3 | -1.7 | -1.2 | 2 | C |
| 21 | 719 | 2.3 | 466 | L | 7.0 | -10 | 341 | 6.1 | -1.3 | -2.0 | 2 | C |
| 22 | 705 | 2.1 | 425 | L | 6.9 | 0 | 338 | 6.0 | -2.1 | -1.3 | 2 | C |
| 23 | 735 | 2.1 | 363 | L | 6.8 | 0 | 316 | 4.4 | -3.7 | -2.2 | 2 | C |
| 24 | 738 | 1.9 | 0 | C | 6.9 | -21 | 298 | 2.7 | -3.1 | -4.5 | 3 | C |

## APR. 22, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 713 | 1.9 | 0 | C | 6.6 | -26 | 320 | 4.0 | -1.6 | -3.9 | 3 | C |
| 2 | 682 | 2.0 | 0 | C | 6.6 | -19 | 343 | 5.8 | -0.6 | -2.7 | 0 | C |
| 3 | | | | | | | | | | | | |
| 4 | 675 | 1.7 | 312 | L | | | | | | | | |
| 5 | 748 | 1.8 | 135 | J | | | | | | | | |
| 6 | 725 | 2.8 | 291 | J | | | | | | | | |
| 7 | 729 | 2.1 | 177 | J | | | | | | | | |
| 8 | 659 | 2.1 | 282 | L | 5.5 | -27 | 344 | 4.4 | -0.7 | -2.5 | 2 | C |
| 9 | 712 | 2.0 | 164 | J | 5.5 | 5 | 332 | 4.3 | -2.3 | 0.0 | 2 | J |
| 10 | 698 | 2.1 | 192 | J | 5.8 | 23 | 305 | 2.5 | -3.9 | 1.3 | 3 | J |
| 11 | 665 | 2.4 | 243 | J | 5.8 | 17 | 355 | 5.4 | -0.7 | 1.6 | 1 | J |
| 12 | 639 | 2.1 | 143 | J | 6.4 | -49 | 357 | 4.1 | 0.5 | -4.7 | 1 | J |
| 13 | 686 | 2.3 | 155 | J | 6.7 | 36 | 286 | 1.3 | -4.9 | 2.6 | 4 | J |
| 14 | 661 | 2.5 | 173 | J | 7.7 | -2 | 290 | 2.5 | -6.6 | -1.6 | 3 | J |
| 15 | 583 | 2.5 | 0 | C | 6.5 | 3 | 321 | 4.1 | -3.4 | -0.5 | 3 | C |
| 16 | 543 | 2.8 | 0 | C | 6.2 | 20 | 343 | 4.0 | -1.6 | 1.1 | 4 | C |
| 17 | 520 | 3.6 | 0 | C | 6.0 | -6 | 353 | 4.3 | -0.4 | -0.6 | 3 | C |
| 18 | 665 | 3.2 | 234 | J | 5.8 | -39 | 330 | 3.4 | -0.6 | -3.7 | 3 | C |
| 19 | 638 | 3.2 | 141 | J | 6.5 | -26 | 343 | 4.8 | -0.3 | -2.9 | 3 | J |
| 20 | 671 | 3.5 | 215 | J | 6.3 | -24 | 314 | 3.4 | -2.0 | -3.6 | 3 | J |
| 21 | 696 | 3.5 | 240 | J | 5.7 | -28 | 298 | 1.8 | -1.9 | -3.5 | 3 | J |
| 22 | 693 | 3.4 | 0 | C | 5.5 | 36 | 333 | 2.8 | -2.3 | 1.2 | 3 | C |
| 23 | 679 | 3.6 | 0 | C | 5.3 | 30 | 350 | 3.9 | -1.7 | 1.6 | 2 | C |
| 24 | 659 | 3.9 | 0 | C | 5.7 | -21 | 319 | 2.2 | -1.0 | -1.9 | 4 | C |

## APR. 23, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 669 | 4.1 | 0 | C | 7.8 | 18 | 304 | 3.0 | -4.8 | -0.8 | 5 | C |
| 2 | 685 | 3.8 | 0 | C | 6.4 | 50 | 315 | 1.7 | -2.9 | 1.8 | 5 | C |
| 3 | 705 | 3.2 | 0 | C | 6.0 | 28 | 288 | 0.9 | -3.3 | 0.2 | 4 | C |
| 4 | 717 | 2.9 | 0 | C | 7.0 | -12 | 65 | 2.2 | 4.8 | 0.9 | 3 | C |
| 5 | 740 | 2.6 | 0 | C | 7.5 | -39 | 33 | 2.9 | 2.7 | -1.9 | 5 | C |
| 6 | 761 | 2.3 | 0 | C | 7.7 | -50 | 1 | 3.9 | 1.5 | -4.5 | 4 | C |
| 7 | 797 | 2.4 | 0 | C | 7.8 | -34 | 326 | 3.9 | -1.7 | -3.7 | 4 | C |
| 8 | 785 | 2.0 | 415 | J | 7.5 | -20 | 344 | 5.0 | -1.0 | -2.1 | 5 | J |
| 9 | 830 | 1.7 | 426 | J | 6.5 | -27 | 331 | 3.3 | -1.5 | -2.2 | 5 | J |
| 10 | 840 | 1.1 | 378 | J | 6.6 | -37 | 285 | 1.1 | -3.5 | -3.7 | 4 | J |
| 11 | 852 | 1.1 | 309 | J | 5.4 | -34 | 317 | 2.5 | -2.0 | -2.6 | 4 | J |
| 12 | 836 | 1.3 | 279 | J | 4.8 | -46 | 7 | 1.9 | 0.5 | -2.0 | 4 | J |
| 13 | 821 | 1.4 | 219 | J | 5.1 | 2 | 330 | 3.7 | -2.1 | -0.2 | 3 | J |
| 14 | 828 | 1.5 | 204 | J | 5.0 | 37 | 50 | 2.4 | 2.3 | 3.3 | 2 | J |
| 15 | 765 | 1.8 | 0 | C | 5.1 | 5 | 28 | 4.2 | 2.1 | 0.9 | 1 | C |
| 16 | 750 | 1.8 | 0 | C | 5.1 | 6 | 19 | 4.5 | 1.4 | 1.0 | 1 | C |
| 17 | 801 | 1.2 | 175 | J | 4.8 | 2 | 359 | 4.6 | -0.1 | 0.1 | 1 | J |
| 18 | 777 | 1.6 | 325 | L | 5.3 | 13 | 5 | 5.0 | -0.0 | 1.2 | 1 | J |
| 19 | 767 | 1.1 | 157 | J | 4.4 | 11 | 20 | 4.0 | 0.9 | 1.4 | 1 | J |
| 20 | 793 | 1.2 | 162 | J | 4.3 | 6 | 13 | 3.9 | 0.6 | 0.8 | 2 | J |
| 21 | 798 | 0.9 | 145 | J | 4.6 | -24 | 299 | 1.8 | -2.0 | -3.1 | 2 | J |
| 22 | 765 | 1.4 | 383 | L | 5.0 | 2 | 353 | 3.6 | -0.4 | -0.1 | 4 | J |
| 23 | 749 | 1.0 | 172 | J | 5.2 | 14 | 6 | 5.0 | -0.2 | 1.3 | 0 | J |
| 24 | 741 | 1.6 | 532 | L | 5.7 | 19 | 13 | 5.1 | 0.0 | 2.2 | 1 | C |

## APR. 24, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 729 | 1.4 | 303 | L | 5.7 | 8 | 5 | 5.5 | -0.0 | 0.9 | 1 | C |
| 2 | 717 | 1.5 | 228 | J | 6.5 | 17 | 354 | 6.0 | -1.4 | 1.3 | 1 | J |
| 3 | 720 | 1.8 | 314 | L | 6.5 | 27 | 359 | 5.5 | -1.3 | 2.5 | 2 | J |
| 4 | 735 | 1.2 | 157 | J | 6.7 | 15 | 335 | 5.1 | -2.8 | 0.4 | 3 | J |
| 5 | 752 | 1.6 | 0 | C | 6.8 | -3 | 327 | 5.4 | -3.2 | -1.6 | 2 | C |
| 6 | 785 | 1.4 | 0 | C | 6.5 | 5 | 347 | 5.7 | -1.5 | 0.1 | 2 | C |
| 7 | 783 | 1.5 | 378 | L | 7.3 | 21 | 356 | 6.4 | -1.1 | 2.3 | 3 | J |
| 8 | 818 | 1.2 | 261 | J | 6.9 | 28 | 4 | 5.4 | -0.2 | 2.9 | 3 | J |
| 9 | 807 | 1.2 | 226 | J | 6.7 | 1 | 329 | 5.5 | -3.3 | -0.5 | 2 | J |
| 10 | 822 | 1.2 | 229 | J | 6.5 | 6 | 322 | 4.8 | -3.8 | 0.1 | 2 | J |
| 11 | 839 | 1.0 | 185 | J | 5.2 | -23 | 333 | 3.9 | -1.7 | -2.1 | 2 | J |
| 12 | 805 | 1.2 | 351 | L | 5.5 | -14 | 325 | 3.7 | -2.4 | -1.5 | 3 | J |
| 13 | 811 | 1.3 | 201 | J | 5.7 | 8 | 323 | 4.0 | -3.1 | 0.2 | 3 | J |
| 14 | 826 | 1.2 | 210 | J | 6.0 | -6 | 308 | 3.2 | -4.0 | -1.3 | 3 | J |
| 15 | 786 | 1.5 | 188 | J | 6.1 | -6 | 347 | 5.2 | -1.1 | -0.8 | 3 | J |
| 16 | 772 | 1.3 | 159 | J | 5.7 | -12 | 6 | 5.4 | 0.9 | -0.9 | 1 | J |
| 17 | 729 | 1.7 | 0 | C | 5.5 | -44 | 313 | 2.5 | -1.4 | -4.2 | 2 | C |
| 18 | 702 | 1.5 | 0 | C | 5.9 | -30 | 305 | 2.8 | -2.7 | -4.1 | 1 | C |
| 19 | 724 | 1.0 | 130 | J | 5.7 | -12 | 334 | 4.7 | -1.6 | -2.0 | 1 | J |
| 20 | 719 | 0.9 | 140 | J | 5.7 | 2 | 347 | 5.3 | -1.2 | -0.4 | 1 | J |
| 21 | 711 | 1.2 | 130 | J | 5.9 | -1 | 360 | 5.8 | 0.0 | -0.1 | 1 | J |
| 22 | 684 | 0.8 | 94 | J | 5.3 | -7 | 348 | 5.0 | -0.6 | -1.1 | 1 | J |
| 23 | 587 | 2.6 | 123 | J | 4.2 | -14 | 345 | 3.4 | -0.3 | -1.2 | 2 | J |
| 24 | 576 | 2.8 | 112 | J | 4.9 | -48 | 14 | 2.9 | 2.3 | -2.5 | 2 | J |

## APR. 25, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 582 | 2.6 | 92 | J | 5.2 | -60 | 356 | 2.5 | 2.0 | -3.9 | 1 | J |
| 2 | 561 | 2.7 | 69 | J | 5.5 | -34 | 8 | 4.0 | 1.8 | -2.2 | 2 | J |
| 3 | 540 | 2.3 | 70 | J | 5.5 | -11 | 344 | 4.9 | -0.8 | -1.5 | 2 | J |
| 4 | 542 | 2.5 | 79 | J | 5.6 | -7 | 337 | 4.7 | -1.6 | -1.3 | 2 | J |
| 5 | 548 | 2.8 | 122 | J | 5.0 | 29 | 343 | 3.9 | -1.9 | 1.7 | 2 | J |
| 6 | 555 | 3.3 | 181 | J | 4.6 | 27 | 348 | 3.7 | -1.3 | 1.6 | 2 | J |
| 7 | 524 | 3.0 | 0 | C | 4.6 | 0 | 359 | 4.1 | -0.1 | -0.0 | 2 | C |
| 8 | 522 | 3.0 | 0 | C | 4.4 | 16 | 347 | 3.8 | -1.1 | 0.9 | 1 | C |
| 9 | 521 | 3.2 | 0 | C | 4.4 | 13 | 353 | 3.9 | -0.6 | 0.8 | 2 | C |
| 10 | 512 | 3.1 | 63 | J | 4.5 | 27 | 5 | 3.9 | 0.0 | 2.0 | 1 | J |
| 11 | 514 | 3.1 | 62 | J | 4.0 | -8 | 341 | 3.3 | -1.1 | -0.6 | 2 | J |
| 12 | 511 | 3.2 | 57 | J | 4.2 | -19 | 348 | 3.4 | -0.6 | -1.3 | 2 | J |
| 13 | 513 | 3.5 | 64 | J | 4.7 | -39 | 10 | 3.1 | 0.9 | -2.5 | 2 | J |
| 14 | 513 | 3.4 | 55 | J | 4.7 | -7 | 320 | 3.1 | -2.5 | -1.0 | 2 | J |
| 15 | 503 | 3.3 | 61 | J | 4.6 | -47 | 6 | 3.0 | 1.0 | -3.1 | 1 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 483 | 3.4 | 46 | J | 4.7 | -3 | 313 | 2.4 | -2.3 | -1.3 | 3 | J |
| 20 | 488 | 3.9 | 52 | J | 5.2 | 6 | 305 | 2.3 | -3.2 | -1.2 | 3 | J |
| 21 | 483 | 3.8 | 63 | J | 4.8 | -12 | 311 | 2.5 | -2.1 | -2.1 | 3 | J |
| 22 | 484 | 4.2 | 104 | J | 4.9 | -50 | 330 | 2.3 | 0.5 | -3.5 | 2 | J |
| 23 | 513 | 4.5 | 66 | J | 5.2 | 2 | 271 | 0.1 | -3.8 | -2.1 | 3 | J |
| 24 | 492 | 4.5 | 98 | J | 4.6 | -39 | 306 | 1.7 | -0.8 | -3.3 | 3 | J |

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## APR. 26, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 490 | 4.7 | 105 | J | 4.4 | -24 | 304 | 1.9 | -1.7 | -2.8 | 2 | J |
| 2 | 507 | 4.3 | 73 | J | 4.4 | 41 | 73 | 0.4 | 0.5 | 1.5 | 4 | J |
| 3 | 503 | 4.5 | 78 | J | 4.6 | -31 | 277 | 0.4 | -2.0 | -3.1 | 3 | J |
| 4 | 513 | 4.3 | 83 | J | 4.9 | -27 | 253 | -0.9 | -2.2 | -2.7 | 3 | J |
| 5 | 518 | 4.5 | 67 | J | 5.4 | -23 | 258 | -1.0 | -3.6 | -3.4 | 2 | J |
| 6 | 489 | 5.1 | 124 | J | 4.2 | 18 | 22 | 1.9 | 0.5 | 0.8 | 4 | J |
| 7 | 470 | 4.2 | 0 | C | 4.7 | 2 | 329 | 3.4 | -2.0 | -0.3 | 2 | C |
| 8 | 492 | 5.3 | 0 | C | 4.8 | -6 | 346 | 3.0 | -0.7 | -0.5 | 3 | C |
| 9 | 610 | 11.5 | 0 | C | 12.8 | -31 | 272 | 0.2 | -5.0 | -4.3 | 10 | C |
| 10 | 686 | 13.5 | 0 | C | 11.4 | -47 | 298 | 2.6 | -3.9 | -6.5 | 6 | C |
| 11 | 688 | 11.7 | 0 | C | 12.8 | -42 | 303 | 3.0 | -4.0 | -5.5 | 10 | C |
| 12 | 745 | 11.4 | 0 | C | 12.4 | -13 | 234 | -5.7 | -2.3 | -1.8 | 10 | C |
| 13 | 763 | 11.3 | 0 | C | 13.9 | 7 | 228 | -8.0 | -8.9 | 0.2 | 6 | C |
| 14 | 742 | 18.7 | 0 | C | 11.7 | -16 | 220 | -7.5 | -5.7 | -3.9 | 6 | C |
| 15 | 724 | 24.8 | 0 | C | 8.5 | 7 | 46 | 4.9 | 4.7 | 2.0 | 5 | C |
| 16 | 652 | 23.9 | 0 | C | 5.5 | -46 | 123 | -0.9 | 1.8 | -1.3 | 5 | C |
| 17 | 575 | 17.1 | 0 | C | 9.2 | -3 | 39 | 6.9 | 5.4 | 1.4 | 4 | C |
| 18 | 627 | 10.1 | 0 | C | 10.9 | -15 | 21 | 9.7 | 4.5 | -1.2 | 1 | C |
| 19 | 616 | 11.3 | 0 | C | 11.1 | -33 | 24 | 8.2 | 5.8 | -3.7 | 3 | C |
| 20 | 604 | 13.8 | 0 | C | 9.4 | -52 | 6 | 5.7 | 3.9 | -6.2 | 1 | C |
| 21 | 587 | 12.7 | 0 | C | 10.9 | -52 | 350 | 6.2 | 3.0 | -7.4 | 4 | C |
| 22 | 575 | 11.2 | 0 | C | 9.2 | -14 | 320 | 5.5 | -3.0 | -3.9 | 5 | C |
| 23 | 580 | 7.1 | 81 | J | 8.7 | -25 | 307 | 4.5 | -3.4 | -6.1 | 2 | J |
| 24 | 571 | 6.3 | 78 | J | 8.7 | -18 | 302 | 4.3 | -4.6 | -5.7 | 2 | J |

## APR. 27, 1981

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 533 | 6.2 | 0 | C | 7.7 | -31 | 299 | 3.2 | -3.0 | -6.1 | 1 | C |
| 558 | 11.3 | 62 | J | 5.3 | -19 | 285 | 1.1 | -3.0 | -3.3 | 3 | J |
| 562 | 13.8 | 45 | J | 6.2 | -31 | 276 | 0.5 | -3.2 | -4.8 | 2 | J |
| 551 | 10.3 | 40 | J | 7.0 | 16 | 282 | 1.3 | -6.5 | -0.7 | 2 | J |
| 553 | 7.9 | 53 | J | 6.6 | 8 | 281 | 1.2 | -6.3 | -1.3 | 2 | J |
| 560 | 11.7 | 64 | J | 5.3 | 0 | 304 | 1.2 | -1.7 | -0.5 | 5 | J |
| 560 | 10.3 | 43 | J | 6.8 | -59 | 350 | 3.2 | 0.7 | -5.4 | 3 | J |
| 557 | 9.2 | 50 | J | 6.2 | -68 | 358 | 1.4 | 0.6 | -3.4 | 5 | J |
| 561 | 6.8 | 73 | J | 5.5 | -27 | 286 | 0.7 | -2.3 | -1.8 | 5 | J |
| 608 | 3.5 | 180 | J | 7.4 | -48 | 285 | 1.1 | -3.3 | -5.0 | 4 | J |
| 574 | 4.8 | 57 | J | 7.3 | -31 | 273 | 0.3 | -5.6 | -4.5 | 2 | J |
| 580 | 4.5 | 57 | J | 7.3 | -23 | 274 | 0.5 | -6.2 | -3.6 | 1 | J |
| 560 | 7.5 | 48 | J | 5.6 | -37 | 114 | -1.7 | 4.3 | -2.6 | 2 | J |
| 558 | 5.5 | 43 | J | 6.7 | -16 | 294 | 1.7 | -3.5 | -1.8 | 5 | J |
| 558 | 5.3 | 49 | J | 7.1 | 3 | 302 | 3.7 | -5.9 | -0.9 | 1 | J |
| 547 | 5.8 | 73 | J | 8.0 | -5 | 329 | 6.8 | -3.8 | -1.8 | 1 | J |
| 542 | 5.4 | 80 | J | 7.4 | 2 | 322 | 5.7 | -4.3 | -1.2 | 2 | J |
| 520 | 6.5 | 57 | J | 6.3 | 36 | 353 | 4.4 | -1.7 | 2.8 | 3 | J |
| 522 | 5.5 | 76 | J | 4.9 | 1 | 345 | 2.9 | -0.7 | -0.3 | 4 | J |
| 522 | 4.9 | 71 | J | 4.6 | 36 | 11 | 2.9 | -0.5 | 2.2 | 3 | J |
| 517 | 4.0 | 59 | J | 6.0 | 12 | 23 | 5.1 | 1.3 | 2.1 | 2 | J |
| 542 | 3.9 | 66 | J | 6.7 | 1 | 310 | 4.0 | -4.2 | -2.3 | 2 | J |
| 521 | 3.1 | 62 | J | 6.4 | 22 | 347 | 5.3 | -2.2 | 1.3 | 2 | J |
| 521 | 3.0 | 51 | J | 5.8 | 27 | 10 | 4.5 | -0.5 | 2.4 | 3 | J |

## APR. 28, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 529 | 1.5 | 87 | J | 4.7 | 31 | 300 | 1.3 | -2.8 | 0.3 | 3 | J |
| 2 | 505 | 1.4 | 141 | L | 6.8 | 25 | 312 | 4.1 | -5.3 | 0.4 | 1 | J |
| 3 | 540 | 1.6 | 102 | J | 6.4 | 30 | 320 | 4.2 | -4.5 | 1.4 | 1 | J |
| 4 | 542 | 1.5 | 82 | J | 6.4 | 20 | 305 | 3.4 | -5.4 | 0.2 | 0 | J |
| 5 | 548 | 2.3 | 87 | J | 6.2 | 7 | 291 | 2.2 | -5.6 | -1.2 | 1 | J |
| 6 | 536 | 2.2 | 67 | J | 6.3 | 18 | 302 | 3.1 | -5.3 | 0.4 | 1 | J |
| 7 | 521 | 2.6 | 67 | J | 5.7 | 15 | 313 | 3.5 | -4.0 | 0.5 | 2 | J |
| 8 | 511 | 2.4 | 67 | J | 5.4 | 8 | 330 | 4.5 | -2.7 | 0.2 | 1 | J |
| 9 | 501 | 3.1 | 110 | J | 5.3 | 13 | 329 | 4.4 | -2.8 | 0.8 | 1 | J |
| 10 | 524 | 2.3 | 81 | J | 5.1 | 6 | 317 | 3.5 | -3.3 | 0.1 | 2 | J |
| 11 | 514 | 2.8 | 0 | C | 5.1 | -3 | 338 | 4.2 | -1.6 | -0.4 | 3 | J |
| 12 | 529 | 3.8 | 0 | C | 7.2 | 14 | 330 | 5.7 | -3.4 | 1.2 | 2 | C |
| 13 | 554 | 5.3 | 0 | C | 7.3 | 5 | 341 | 6.0 | -2.1 | 0.3 | 3 | C |
| 14 | 541 | 5.3 | 0 | C | 7.3 | 20 | 300 | 2.7 | -4.9 | 1.1 | 4 | C |
| 15 | 529 | 4.9 | 0 | C | 7.8 | 23 | 290 | 1.8 | -5.2 | 1.1 | 5 | C |
| 16 | 521 | 4.7 | 0 | C | 6.9 | -8 | 307 | 3.0 | -3.7 | -1.7 | 4 | C |
| 17 | 507 | 5.1 | 0 | C | 6.9 | 14 | 323 | 5.0 | -4.0 | 0.3 | 2 | C |
| 18 | 506 | 5.1 | 0 | C | 7.9 | 39 | 294 | 2.4 | -6.7 | 2.5 | 2 | C |
| 19 | 502 | 5.6 | 0 | C | 8.6 | 40 | 315 | 4.5 | -6.2 | 2.9 | 2 | C |
| 20 | 492 | 5.9 | 0 | C | 7.4 | 12 | 292 | 2.6 | -6.4 | -1.7 | 2 | C |
| 21 | 486 | 6.5 | 0 | C | 7.2 | 27 | 289 | 2.0 | -6.6 | -0.1 | 1 | C |
| 22 | 498 | 8.0 | 0 | C | 7.4 | 11 | 241 | -3.2 | -5.7 | -1.8 | 2 | C |
| 23 | 496 | 8.8 | 0 | C | 7.7 | -28 | 270 | -0.0 | -3.6 | -5.9 | 3 | C |
| 24 | 464 | 9.5 | 0 | C | 7.7 | -32 | 308 | 3.8 | -2.3 | -5.7 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 461 | 10.1 | 0 | C | 7.6 | -45 | 324 | 4.2 | -0.2 | -6.1 | 2 | C |
| 451 | 10.7 | 0 | C | 6.3 | -17 | 293 | 2.2 | -3.8 | -3.9 | 2 | C |
| 461 | 10.6 | 0 | C | 5.4 | 1 | 299 | 2.2 | -3.6 | -1.6 | 3 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 426 | 8.3 | 0 | C | | | | | | | | |
| 426 | 8.3 | 0 | C | 4.5 | 43 | 15 | 2.0 | 0.2 | 2.0 | 3 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 418 | 9.2 | 0 | C | | | | | | | | |
| 418 | 9.2 | 0 | C | 6.7 | -25 | 315 | 4.3 | -3.4 | -3.8 | 0 | C |
| 415 | 8.8 | 0 | C | 6.6 | -28 | 300 | 2.7 | -3.6 | -4.3 | 2 | C |
| 405 | 9.5 | 0 | C | 6.0 | -33 | 296 | 2.2 | -2.9 | -4.6 | 1 | C |
| 393 | 7.8 | 0 | C | 6.1 | -23 | 318 | 4.0 | -2.4 | -3.7 | 1 | C |
| 391 | 7.4 | 0 | C | 6.1 | -11 | 325 | 4.9 | -2.5 | -2.6 | 0 | C |
| 387 | 7.1 | 0 | C | 5.5 | -6 | 323 | 4.4 | -2.6 | -2.1 | 0 | C |
| | | | | | | | | | | | |
| 386 | 6.9 | 0 | C | 4.9 | -15 | 331 | 4.2 | -1.4 | -2.2 | 0 | C |
| 380 | 6.9 | 0 | C | 4.6 | -17 | 329 | 3.8 | -1.3 | -2.3 | 0 | C |

## APR. 30, 1981

120

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 379 | 6.7 | 0 | C | 4.1 | -20 | 321 | 3.0 | -1.5 | -2.4 | 1 | C |
| 2 | 383 | 5.9 | 0 | C | 4.2 | -14 | 345 | 3.9 | -0.5 | -1.4 | 0 | C |
| 3 | 362 | 5.6 | 0 | C | 4.1 | -7 | 350 | 4.0 | -0.4 | -0.7 | 0 | C |
| 4 | 359 | 5.1 | 0 | C | 3.5 | -2 | 356 | 3.5 | -0.2 | -0.2 | 0 | C |
| 5 | 354 | 4.8 | 0 | C | 3.3 | 2 | 3 | 3.3 | 0.1 | 0.2 | 0 | C |
| 6 | 357 | 5.3 | 0 | C | 3.3 | -3 | 7 | 3.2 | 0.4 | -0.1 | 0 | C |
| 7 | 378 | 8.3 | 0 | C | 4.0 | 17 | 360 | 3.6 | -0.3 | 1.1 | 1 | C |
| 8 | 378 | 10.3 | 0 | C | 4.9 | 24 | 332 | 3.8 | -2.4 | 1.5 | 1 | C |
| 9 | 408 | 19.0 | 0 | C | 8.2 | 56 | 306 | 2.4 | -4.2 | 5.4 | 4 | C |
| 10 | 417 | 26.3 | 0 | C | 6.5 | 73 | 254 | -0.4 | -2.1 | 4.8 | 4 | C |
| 11 | 402 | 32.7 | 0 | C | 2.4 | 76 | 199 | -0.3 | -0.2 | 1.1 | 2 | C |
| 12 | 392 | 27.8 | 0 | C | 4.7 | 55 | 133 | -1.4 | 1.1 | 3.1 | 3 | C |
| 13 | | | | | | | | | | | | |
| 14 | 377 | 8.8 | 0 | C | 10.2 | 14 | 110 | -3.2 | 8.5 | 3.9 | 2 | C |
| 15 | 384 | 8.2 | 0 | C | 9.3 | 28 | 111 | -2.7 | 6.2 | 5.4 | 3 | C |
| 16 | | | | | | | | | | | | |
| 17 | 380 | 7.7 | 0 | C | 8.7 | 36 | 118 | -3.1 | 3.9 | 6.3 | 3 | C |
| 18 | 390 | 7.4 | 0 | C | 8.9 | 34 | 114 | -2.9 | 4.2 | 6.7 | 2 | C |
| 19 | 400 | 7.9 | 0 | C | 8.0 | 6 | 102 | -1.3 | 5.0 | 3.0 | 5 | C |
| 20 | 402 | 8.3 | 0 | C | 7.5 | -18 | 125 | -3.6 | 5.5 | 0.5 | 3 | C |
| 21 | 406 | 8.4 | 0 | C | 7.9 | 7 | 106 | -2.0 | 5.8 | 4.2 | 2 | C |
| 22 | 398 | 8.2 | 0 | C | 7.8 | 9 | 112 | -2.6 | 5.1 | 4.2 | 3 | C |
| 23 | 394 | 8.1 | 0 | C | 8.1 | 13 | 127 | -4.4 | 4.2 | 4.3 | 3 | C |
| 24 | 390 | 7.6 | 0 | C | 8.2 | -3 | 113 | -3.0 | 6.4 | 3.2 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 393 | 7.7 | 0 | C | 8.2 | -6 | 118 | -3.5 | 6.2 | 2.5 | 2 | C |
| 402 | 7.6 | 0 | C | 8.2 | -3 | 121 | -3.9 | 5.9 | 2.6 | 2 | C |
| 404 | 7.6 | 0 | C | 8.1 | -2 | 114 | -3.1 | 6.5 | 2.7 | 2 | C |
| 403 | 7.4 | 0 | C | 8.2 | 10 | 124 | -4.4 | 5.6 | 3.7 | 1 | C |
| 398 | 7.0 | 0 | C | 8.2 | -12 | 124 | -4.2 | 6.4 | 0.4 | 2 | C |
| 403 | 6.9 | 0 | C | 8.4 | -8 | 133 | -5.3 | 5.9 | 0.4 | 2 | C |
| 416 | 6.0 | 0 | C | 8.7 | -28 | 122 | -3.7 | 6.6 | -2.3 | 3 | C |
| 457 | 7.4 | 0 | C | 8.0 | 30 | 183 | -5.9 | -1.0 | 3.4 | 3 | C |
| 520 | 10.6 | 0 | C | 11.0 | 11 | 121 | -3.6 | 5.7 | 2.2 | 7 | C |
| 513 | 10.2 | 0 | C | 9.5 | -2 | 188 | -6.8 | -0.9 | -0.3 | 6 | C |
| 513 | 9.7 | 0 | C | 8.4 | 18 | 169 | -6.0 | 0.9 | 2.1 | 5 | C |
| 505 | 8.7 | 0 | C | 7.9 | -17 | 121 | -3.0 | 5.2 | -1.1 | 5 | C |
| 519 | 7.9 | 0 | C | 8.2 | -13 | 99 | -1.0 | 6.7 | -0.7 | 4 | C |
| 503 | 7.3 | 0 | C | 7.8 | 13 | 88 | 0.2 | 5.5 | 2.3 | 4 | C |
| 500 | 7.1 | 0 | C | 7.9 | -6 | 97 | -0.8 | 6.3 | 0.6 | 3 | C |
| 494 | 8.1 | 0 | C | 7.1 | 14 | 96 | -0.5 | 4.0 | 2.2 | 4 | C |
| 503 | 10.0 | 0 | C | 7.0 | 62 | 157 | -1.3 | -0.3 | 2.7 | 5 | C |
| 467 | 7.2 | 0 | C | 7.9 | 11 | 205 | -6.3 | -3.2 | 0.2 | 3 | C |
| 475 | 7.0 | 0 | C | 7.9 | -12 | 215 | -5.4 | -2.9 | -2.8 | 4 | C |
| 508 | 6.6 | 0 | C | 7.9 | 82 | 290 | 0.3 | -3.5 | 5.0 | 4 | C |
| 510 | 6.3 | 0 | C | 7.8 | 45 | 269 | -0.1 | -6.9 | 2.1 | 2 | C |
| 520 | 5.9 | 0 | C | 7.7 | 41 | 289 | 1.8 | -7.0 | 1.6 | 2 | C |
| 481 | 5.9 | 0 | C | 7.3 | -28 | 176 | -5.7 | 1.8 | -2.4 | 3 | C |
| 472 | 6.1 | 0 | C | 7.4 | -29 | 169 | -6.1 | 2.8 | -2.4 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 5.8 | 0 | C | 7.4 | -22 | 156 | -6.1 | 3.6 | -1.1 | 1 | C |
| 2 | 468 | 5.4 | 0 | C | 7.1 | -17 | 181 | -6.6 | 0.9 | -1.9 | 1 | C |
| 3 | 471 | 5.1 | 0 | C | 6.8 | -7 | 159 | -5.1 | 2.0 | 0.2 | 3 | C |
| 4 | 467 | 4.9 | 0 | C | 6.6 | -7 | 150 | -5.4 | 3.2 | 0.4 | 2 | C |
| 5 | 463 | 4.8 | 0 | C | 6.6 | -10 | 161 | -5.9 | 2.3 | -0.4 | 2 | C |
| 6 | 457 | 4.9 | 0 | C | 6.3 | 7 | 178 | -5.5 | -0.0 | 0.7 | 2 | C |
| 7 | 472 | 5.1 | 0 | C | 6.2 | 7 | 166 | -4.8 | 1.1 | 0.8 | 3 | C |
| 8 | 442 | 4.8 | 0 | C | 6.3 | 13 | 163 | -5.1 | 1.3 | 1.5 | 3 | C |
| 9 | 437 | 4.7 | 0 | C | 6.3 | -5 | 138 | -4.4 | 3.9 | 0.1 | 1 | C |
| 10 | 445 | 4.6 | 0 | C | 6.5 | 13 | 161 | -5.5 | 1.8 | 1.5 | 2 | C |
| 11 | 444 | 4.6 | 0 | C | 6.6 | 5 | 148 | -5.4 | 3.3 | 0.9 | 1 | C |
| 12 | 443 | 4.7 | 0 | C | 6.4 | 1 | 133 | -4.2 | 4.4 | 0.6 | 2 | C |
| 13 | 438 | 4.8 | 0 | C | 6.5 | 4 | 122 | -3.2 | 5.0 | 1.1 | 2 | C |
| 14 | 437 | 4.8 | 0 | C | 6.6 | 16 | 142 | -4.7 | 3.3 | 2.2 | 2 | C |
| 15 | 430 | 5.0 | 0 | C | 6.4 | 12 | 164 | -6.0 | 1.4 | 1.6 | 1 | C |
| 16 | 419 | 5.4 | 0 | C | 6.2 | -4 | 152 | -5.2 | 2.8 | 0.3 | 2 | C |
| 17 | 420 | 5.3 | 0 | C | 6.3 | -12 | 143 | -4.8 | 3.8 | -0.2 | 1 | C |
| 18 | 414 | 5.4 | 0 | C | 6.2 | 10 | 141 | -4.6 | 3.1 | 2.3 | 1 | C |
| 19 | 412 | 5.2 | 0 | C | 6.0 | 32 | 156 | -4.1 | 0.5 | 3.3 | 3 | C |
| 20 | | | | | | | | | | | | |
| 21 | 401 | 5.3 | 0 | C | 6.0 | -5 | 150 | -5.0 | 2.7 | 0.9 | 1 | C |
| 22 | 405 | 5.1 | 0 | C | 5.8 | -7 | 130 | -3.5 | 3.9 | 1.5 | 2 | C |
| 23 | | | | | | | | | | | | |
| 24 | 394 | 5.0 | 0 | C | 5.6 | 8 | 177 | -5.1 | -0.1 | 0.7 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 389 | 5.3 | 0 | C | 5.7 | 0 | 177 | -5.5 | 0.3 | 0.1 | 1 | C |
| 335 | 7.5 | 0 | C | 7.7 | 15 | 187 | -7.2 | -1.6 | 1.3 | 2 | C |
| 406 | 7.6 | 0 | C | 7.8 | 26 | 199 | -5.9 | -3.0 | 1.9 | 3 | C |
| 399 | 7.4 | 0 | C | 7.5 | 39 | 197 | -5.1 | -3.0 | 3.5 | 3 | C |
| 399 | 7.2 | 0 | C | 7.1 | 37 | 190 | -5.1 | -2.0 | 3.5 | 3 | C |
| 386 | 6.9 | 0 | C | 7.2 | -5 | 192 | -6.8 | -1.3 | -0.9 | 2 | C |
| 396 | 7.1 | 0 | C | 6.4 | -15 | 171 | -5.7 | 1.2 | -1.3 | 2 | C |
| 387 | 6.8 | 0 | C | 6.8 | 6 | 163 | -6.3 | 1.7 | 1.0 | 2 | C |
| 388 | 6.6 | 0 | C | 6.2 | 1 | 161 | -5.3 | 1.8 | 0.3 | 2 | C |
| 390 | 6.6 | 0 | C | 6.4 | -2 | 151 | -5.0 | 2.7 | 0.1 | 3 | C |
| 389 | 6.7 | 0 | C | 6.1 | -7 | 148 | -4.9 | 3.1 | -0.4 | 1 | C |
| 394 | 6.4 | 0 | C | 6.2 | 29 | 184 | -5.1 | -0.6 | 2.8 | 2 | C |
| 387 | 7.0 | 0 | C | 6.6 | 1 | 94 | -0.5 | 6.3 | 0.9 | 1 | C |
| 389 | 7.3 | 0 | C | 6.5 | -1 | 92 | -0.2 | 6.2 | 0.8 | 1 | C |
| 390 | 7.8 | 0 | C | 7.0 | -13 | 88 | 0.2 | 6.1 | -0.2 | 3 | C |
| 386 | 8.4 | 0 | C | 7.3 | 17 | 113 | -2.4 | 5.2 | 3.2 | 3 | C |
| 376 | 8.2 | 0 | C | 7.5 | 2 | 100 | -1.3 | 6.8 | 2.3 | 1 | C |
| 386 | 7.7 | 0 | C | 7.0 | 3 | 104 | -1.5 | 5.4 | 2.3 | 3 | C |
| 373 | 7.7 | 0 | C | 7.2 | 20 | 118 | -2.8 | 3.9 | 4.0 | 3 | C |
| 368 | 7.1 | 0 | C | 7.1 | -6 | 97 | -0.8 | 6.4 | 2.3 | 1 | C |
| 376 | 7.2 | 0 | C | 6.8 | 2 | 83 | 0.8 | 5.6 | 3.3 | 1 | C |
| 360 | 7.1 | 0 | C | 6.5 | 1 | 99 | -0.9 | 5.3 | 3.1 | 2 | C |
| 363 | 7.1 | 0 | C | 6.3 | 0 | 92 | -0.2 | 5.3 | 3.0 | 1 | C |
| 372 | 7.3 | 0 | C | 5.9 | 11 | 78 | 0.7 | 2.6 | 2.2 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 354 | 6.9 | 0 | C | 6.0 | 21 | 81 | 0.7 | 3.0 | 3.5 | 3 | C |
| 2 | 345 | 6.5 | 0 | C | 6.2 | -5 | 107 | -1.8 | 5.3 | 1.9 | 1 | C |
| 3 | 335 | 6.5 | 0 | C | 5.7 | 9 | 102 | -1.1 | 4.3 | 2.8 | 2 | C |
| 4 | 337 | 6.7 | 0 | C | 5.5 | -2 | 104 | -1.3 | 4.7 | 1.6 | 2 | C |
| 5 | 338 | 7.0 | 0 | C | 5.4 | 2 | 100 | -0.8 | 4.7 | 1.7 | 2 | C |
| 6 | 339 | 6.9 | 0 | C | 5.3 | -1 | 97 | -0.5 | 4.3 | 1.1 | 2 | C |
| 7 | 335 | 6.8 | 0 | C | 5.1 | -18 | 123 | -2.5 | 4.0 | -0.6 | 1 | C |
| 8 | 332 | 6.9 | 0 | C | 5.1 | -15 | 111 | -1.7 | 4.6 | -0.5 | 1 | C |
| 9 | 334 | 7.2 | 0 | C | 5.2 | -5 | 116 | -2.1 | 4.4 | 0.2 | 1 | C |
| 10 | 332 | 7.3 | 0 | C | 5.2 | 9 | 119 | -2.2 | 3.8 | 1.1 | 2 | C |
| 11 | 332 | 7.2 | 0 | C | 5.1 | 2 | 149 | -3.2 | 1.9 | 0.3 | 3 | C |
| 12 | 328 | 7.0 | 0 | C | 5.3 | 0 | 119 | -2.4 | 4.3 | 0.4 | 2 | C |
| 13 | 327 | 7.0 | 0 | C | 5.3 | -1 | 108 | -1.3 | 4.1 | 0.4 | 3 | C |
| 14 | 321 | 7.1 | 0 | C | 5.5 | -6 | 120 | -2.6 | 4.6 | 0.1 | 1 | C |
| 15 | 306 | 9.0 | 54 | J | 5.4 | -16 | 145 | -4.1 | 3.1 | -0.9 | 1 | C |
| 16 | 314 | 6.7 | 49 | J | 5.5 | -13 | 165 | -4.9 | 1.6 | -0.8 | 2 | J |
| 17 | 321 | 6.4 | 44 | J | 5.2 | -14 | 140 | -3.4 | 3.1 | -0.2 | 2 | J |
| 18 | 322 | 6.7 | 42 | J | 4.9 | -5 | 132 | -2.9 | 3.2 | 0.8 | 2 | C |
| 19 | 318 | 6.8 | 0 | C | 5.3 | -13 | 103 | -1.2 | 4.9 | 0.9 | 1 | C |
| 20 | 320 | 5.9 | 38 | J | 5.1 | 36 | 150 | -2.6 | 0.4 | 2.6 | 3 | C |
| 21 | 332 | 6.0 | 30 | J | 5.1 | 17 | 122 | -1.9 | 2.2 | 2.4 | 3 | J |
| 22 | 340 | 6.1 | 25 | J | 5.5 | 20 | 115 | -2.0 | 2.9 | 3.6 | 2 | J |
| 23 | 337 | 6.2 | 24 | J | 5.9 | 16 | 110 | -1.7 | 3.4 | 3.5 | 2 | J |
| 24 | 335 | 6.2 | 21 | J | 5.5 | -25 | 117 | -2.2 | 4.9 | 0.1 | 1 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 322 | 6.8 | 0 | C | 5.6 | -12 | 125 | -3.0 | 4.3 | 1.0 | 1 | C |
| 321 | 6.9 | 0 | C | 5.6 | -6 | 119 | -2.6 | 4.4 | 1.5 | 1 | C |
| 332 | 5.8 | 24 | J | 5.6 | 7 | 126 | -3.0 | 3.5 | 2.2 | 2 | J |
| 311 | 7.2 | 0 | C | 5.6 | 8 | 134 | -3.4 | 3.0 | 1.9 | 2 | C |
| 314 | 6.6 | 0 | C | 5.7 | -5 | 114 | -2.2 | 4.9 | 1.0 | 2 | C |
| 317 | 6.4 | 0 | C | 5.5 | -11 | 110 | -1.7 | 5.0 | 0.3 | 1 | C |
| 320 | 6.9 | 0 | C | 5.5 | -8 | 105 | -1.3 | 4.9 | 0.3 | 2 | C |
| 323 | 6.6 | 21 | J | 5.5 | -2 | 139 | -4.1 | 3.5 | 0.4 | 1 | J |
| 336 | 7.3 | 18 | J | 5.7 | -18 | 116 | -2.2 | 4.6 | -1.0 | 2 | J |
| 327 | 7.5 | 19 | J | 5.7 | 9 | 145 | -4.1 | 2.8 | 1.1 | 2 | J |
| 324 | 7.5 | 19 | J | 5.9 | 5 | 142 | -4.3 | 3.3 | 0.8 | 2 | J |
| 340 | 6.8 | 18 | J | 5.4 | 0 | 101 | -1.0 | 5.0 | 0.5 | 2 | J |
| 341 | 6.6 | 17 | J | 5.8 | -9 | 99 | -0.9 | 5.5 | -0.3 | 1 | J |
| 322 | 7.1 | 0 | C | 5.8 | -11 | 93 | -0.3 | 5.7 | -0.3 | 1 | C |
| 323 | 7.4 | 0 | C | 5.8 | -10 | 112 | -2.0 | 5.0 | -0.1 | 2 | C |
| 316 | 6.9 | 26 | J | 5.8 | -6 | 137 | -4.1 | 3.9 | 0.3 | 1 | J |
| 325 | 6.8 | 21 | J | 5.6 | -3 | 130 | -3.1 | 3.7 | 0.8 | 3 | J |
| 331 | 7.1 | 19 | J | 5.4 | -22 | 121 | -1.9 | 3.4 | -0.3 | 4 | J |
| 327 | 7.4 | 28 | J | 6.0 | 1 | 142 | -2.5 | 1.8 | 0.8 | 5 | J |
| 325 | 7.3 | 20 | J | 5.9 | 20 | 127 | -3.0 | 2.8 | 3.4 | 3 | J |
| 326 | 7.1 | 18 | J | 5.9 | -1 | 119 | -2.7 | 4.3 | 2.1 | 2 | J |
| 337 | 7.4 | 17 | J | 6.0 | 2 | 104 | -1.3 | 4.6 | 2.7 | 2 | J |
| 348 | 7.8 | 38 | J | 5.7 | -24 | 79 | 1.0 | 5.4 | 0.4 | 2 | J |
| 322 | 8.6 | 0 | C | 5.9 | 1 | 136 | -4.1 | 3.4 | 1.9 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 331 | 7.5 | 20 | J | 6.3 | 24 | 124 | -3.1 | 2.9 | 4.2 | 2 | J |
| 2 | 330 | 7.6 | 19 | J | 6.0 | -4 | 118 | -2.4 | 4.3 | 1.6 | 3 | J |
| 3 | 322 | 7.3 | 22 | J | 5.9 | -15 | 123 | -3.0 | 4.8 | 0.4 | 2 | J |
| 4 | 335 | 7.3 | 17 | J | 5.9 | -20 | 100 | -0.9 | 5.3 | -0.0 | 2 | J |
| 5 | 342 | 7.5 | 18 | J | 6.0 | -24 | 85 | 0.5 | 5.8 | -0.7 | 1 | J |
| 6 | 325 | 7.7 | 18 | J | 6.1 | -5 | 108 | -1.8 | 5.5 | 0.9 | 2 | J |
| 7 | 329 | 5.9 | 20 | J | 6.3 | -15 | 108 | -1.6 | 4.9 | -0.4 | 4 | J |
| 8 | 328 | 5.5 | 19 | J | 6.6 | -14 | 118 | -2.8 | 5.4 | -0.6 | 2 | J |
| 9 | 320 | 5.8 | 20 | J | 6.5 | 5 | 134 | -4.4 | 4.4 | 1.1 | 1 | J |
| 10 | 327 | 5.8 | 21 | J | 5.9 | 7 | 131 | -3.6 | 4.0 | 1.1 | 2 | J |
| 11 | 339 | 6.2 | 23 | J | 5.7 | -18 | 121 | -2.5 | 4.4 | -1.2 | 2 | J |
| 12 | 347 | 6.3 | 27 | J | 5.9 | -25 | 108 | -1.6 | 5.1 | -2.0 | 1 | J |
| 13 | 344 | 6.4 | 24 | J | 5.4 | -22 | 115 | -2.0 | 4.5 | -1.5 | 2 | J |
| 14 | 332 | 8.2 | 0 | C | 5.9 | -17 | 106 | -1.4 | 5.0 | -0.9 | 2 | C |
| 15 | 332 | 8.5 | 0 | C | 5.8 | 43 | 162 | -3.2 | 0.5 | 3.3 | 3 | C |
| 16 | 336 | 8.5 | 0 | C | 5.7 | 11 | 167 | -5.1 | 0.9 | 1.2 | 2 | C |
| 17 | 328 | 8.5 | 0 | C | 5.6 | -10 | 158 | -4.8 | 2.2 | -0.4 | 1 | C |
| 18 | 332 | 8.8 | 0 | C | 5.5 | -20 | 173 | -3.5 | 0.8 | -1.1 | 4 | C |
| 19 | 330 | 8.7 | 0 | C | 5.6 | 8 | 147 | -3.4 | 1.8 | 1.4 | 4 | C |
| 20 | 326 | 7.5 | 28 | J | 5.7 | 43 | 152 | -3.5 | 0.1 | 4.1 | 2 | J |
| 21 | 343 | 7.2 | 23 | J | 6.0 | 17 | 118 | -1.6 | 2.2 | 2.3 | 5 | J |
| 22 | 347 | 6.9 | 18 | J | 6.4 | -1 | 90 | 0.0 | 5.1 | 2.6 | 3 | J |
| 23 | 346 | 7.0 | 24 | J | 5.9 | -17 | 93 | -0.3 | 5.6 | 1.1 | 2 | J |
| 24 | 327 | 7.2 | 30 | J | 6.0 | 16 | 127 | -3.0 | 2.8 | 3.1 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 323 | 8.3 | 0 | C | 6.3 | -21 | 98 | -0.8 | 6.1 | 0.6 | 1 | C |
| 309 | 6.5 | 27 | J | 6.5 | 23 | 155 | -5.1 | 1.1 | 3.2 | 2 | J |
| 310 | 6.5 | 19 | J | 6.4 | -13 | 136 | -4.0 | 4.1 | 0.3 | 3 | J |
| 323 | 7.3 | 22 | J | 6.6 | -13 | 126 | -3.5 | 5.1 | 0.3 | 2 | J |
| 335 | 7.4 | 17 | J | 6.6 | -39 | 115 | -2.1 | 5.4 | -2.5 | 2 | J |
| 311 | 6.8 | 20 | J | 6.4 | 4 | 150 | -5.0 | 2.7 | 1.1 | 3 | J |
| 309 | 6.5 | 21 | J | 6.0 | 3 | 163 | -4.6 | 1.3 | 0.5 | 4 | J |
| 309 | 7.6 | 23 | J | 6.7 | 17 | 139 | -4.5 | 3.6 | 2.4 | 2 | J |
| 322 | 7.6 | 23 | J | 6.5 | -17 | 116 | -2.3 | 5.0 | -1.1 | 3 | J |
| 321 | 7.7 | 21 | J | 6.7 | -17 | 116 | -2.6 | 5.6 | -1.3 | 2 | J |
| 326 | 8.0 | 20 | J | 6.8 | -11 | 105 | -1.6 | 6.1 | -0.7 | 2 | J |
| 306 | 7.5 | 21 | J | 6.8 | 15 | 133 | -4.0 | 4.2 | 1.9 | 3 | J |
| 304 | 7.4 | 18 | J | 6.8 | -8 | 141 | -4.7 | 3.9 | -0.5 | 3 | J |
| 319 | 8.0 | 22 | J | 6.8 | -2 | 111 | -2.3 | 6.0 | 0.6 | 2 | J |
| 327 | 7.7 | 18 | J | 7.0 | -12 | 100 | -1.2 | 6.7 | -0.3 | 2 | J |
| 320 | 7.7 | 18 | J | 7.4 | -3 | 107 | -2.2 | 7.0 | 1.2 | 0 | J |
| 308 | 9.7 | 0 | C | 7.1 | 6 | 133 | -3.5 | 3.4 | 1.5 | 5 | J |
| 305 | 8.0 | 31 | J | 7.1 | 12 | 123 | -3.7 | 4.9 | 3.2 | 2 | J |
| 323 | 8.0 | 22 | J | 7.0 | 24 | 108 | -1.6 | 3.7 | 4.1 | 4 | J |
| 318 | 8.2 | 30 | J | 6.5 | 4 | 123 | -2.4 | 3.3 | 1.9 | 5 | J |
| 312 | 11.0 | 0 | C | 6.7 | -17 | 92 | -0.2 | 6.4 | 1.1 | 1 | C |
| 323 | 7.5 | 37 | J | 7.0 | 4 | 108 | -1.9 | 5.0 | 3.2 | 3 | J |
| 319 | 7.8 | 36 | J | 7.1 | -5 | 113 | -2.6 | 5.7 | 2.4 | 3 | J |
| 330 | 8.8 | 39 | J | 7.1 | 17 | 102 | -1.2 | 4.2 | 4.2 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 313 | 7.4 | 42 | J | 6.5 | -16 | 127 | -3.1 | 4.4 | 0.5 | 4 | J |
| 2 | 303 | 7.1 | 35 | J | 6.6 | -32 | 157 | -4.9 | 3.3 | -2.2 | 2 | J |
| 3 | 314 | 8.4 | 40 | J | 6.3 | -39 | 155 | -3.0 | 2.3 | -2.0 | 5 | J |
| 4 | 320 | 10.0 | 45 | J | 7.4 | 39 | 136 | -3.4 | 1.8 | 4.7 | 4 | J |
| 5 | 338 | 10.3 | 36 | J | 7.7 | 22 | 97 | -0.9 | 5.9 | 4.7 | 1 | J |
| 6 | 331 | 11.5 | 48 | J | 7.5 | 22 | 229 | -3.6 | -4.5 | 1.2 | 5 | J |
| 7 | 308 | 12.2 | 63 | J | 7.7 | 17 | 194 | -6.8 | -2.1 | 1.8 | 2 | J |
| 8 | 303 | 10.3 | 46 | J | 7.5 | 2 | 197 | -7.0 | -2.1 | -0.1 | 2 | J |
| 9 | 306 | 15.3 | 0 | C | 7.8 | 13 | 203 | -6.6 | -3.0 | 1.4 | 2 | C |
| 10 | 316 | 14.5 | 0 | C | 8.0 | 25 | 241 | -3.0 | -5.6 | 2.3 | 4 | C |
| 11 | 343 | 9.9 | 51 | J | 8.5 | 8 | 89 | 0.1 | 8.1 | 1.8 | 1 | J |
| 12 | 352 | 10.6 | 58 | J | 8.6 | 1 | 81 | 1.3 | 8.0 | 0.8 | 3 | J |
| 13 | 349 | 10.6 | 64 | J | 8.8 | -9 | 81 | 1.2 | 7.6 | -0.5 | 4 | J |
| 14 | 324 | 9.8 | 55 | J | 8.8 | 8 | 120 | -3.5 | 5.9 | 1.7 | 5 | J |
| 15 | 340 | 7.6 | 25 | J | 10.3 | 1 | 99 | -1.5 | 9.6 | 1.8 | 3 | J |
| 16 | 333 | 10.8 | 0 | C | 11.0 | -25 | 93 | -0.5 | 10.4 | -2.3 | 2 | J |
| 17 | 363 | 8.3 | 86 | J | 12.0 | 10 | 94 | -0.8 | 10.0 | 4.8 | 4 | J |
| 18 | 361 | 10.2 | 67 | J | 12.0 | 27 | 94 | -0.7 | 8.1 | 8.4 | 3 | J |
| 19 | 354 | 29.1 | 44 | J | 6.5 | 22 | 98 | -0.8 | 4.2 | 4.2 | 4 | J |
| 20 | 340 | 15.7 | 33 | J | 11.8 | 21 | 110 | -3.7 | 7.5 | 8.0 | 3 | J |
| 21 | 336 | 7.8 | 34 | J | 13.3 | 17 | 117 | -5.7 | 8.3 | 8.5 | 1 | J |
| 22 | 347 | 21.8 | 36 | J | 10.5 | 23 | 105 | -2.2 | 5.5 | 6.9 | 6 | J |
| 23 | 370 | 30.1 | 27 | J | 9.2 | 19 | 251 | -2.8 | -8.5 | -1.2 | 2 | J |
| 24 | 360 | 33.9 | 32 | J | 8.7 | 30 | 256 | -1.8 | -8.3 | 0.5 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 359 | 53.2 | 0 | C | 13.0 | 22 | 271 | 0.2 | -11.7 | -0.9 | 6 | J |
| 332 | 79.0 | 0 | C | 9.7 | -1 | 74 | 1.0 | 3.3 | 1.4 | 9 | J |
| 404 | 63.8 | 46 | J | 14.5 | -44 | 73 | 1.7 | 7.1 | -3.0 | 13 | J |
| 393 | 28.4 | 50 | J | 21.9 | -4 | 266 | -1.5 | -19.5 | -8.4 | 5 | J |
| 398 | 22.5 | 72 | J | 22.6 | -85 | 243 | -0.8 | 4.1 | -19.7 | 11 | J |
| 393 | 12.8 | 85 | J | 24.5 | -76 | 105 | -1.5 | 11.0 | -21.7 | 2 | J |
| 372 | 34.4 | 73 | J | 20.8 | -73 | 99 | -0.9 | 9.3 | -18.0 | 5 | J |
| 383 | 11.9 | 89 | J | 22.8 | -59 | 87 | 0.6 | 14.2 | -17.6 | 3 | J |
| 378 | 22.9 | 110 | J | 20.0 | -42 | 84 | 1.5 | 15.5 | -11.3 | 5 | J |
| 387 | 20.3 | 137 | J | 16.6 | -30 | 80 | 2.4 | 14.1 | -6.8 | 5 | J |
| 360 | 10.0 | 120 | J | 19.2 | -26 | 114 | -6.9 | 16.1 | -7.2 | 3 | J |
| 377 | 9.3 | 92 | J | 17.7 | -19 | 98 | -2.3 | 16.8 | -4.5 | 4 | J |
| 352 | 27.8 | 104 | J | 12.4 | -15 | 94 | -0.8 | 11.3 | -2.0 | 5 | J |
| 347 | 29.5 | 115 | J | 10.8 | 20 | 113 | -3.2 | 7.2 | 3.9 | 6 | J |
| 335 | 40.1 | 0 | C | 8.7 | 58 | 109 | -1.4 | 3.0 | 7.7 | 2 | J |
| 358 | 37.1 | 58 | J | 6.5 | 4 | 94 | -0.3 | 3.7 | 1.1 | 6 | J |
| 336 | 45.8 | 0 | C | 6.4 | -1 | 172 | -4.2 | 0.6 | 0.1 | 5 | C |
| 369 | 34.9 | 48 | J | 3.4 | 32 | 136 | -0.2 | 0.2 | 0.3 | 4 | J |
| 359 | 22.8 | 51 | J | 7.6 | -23 | 25 | 5.8 | 3.5 | -1.5 | 3 | J |
| 358 | 16.3 | 46 | J | 9.6 | -14 | 40 | 7.1 | 6.3 | 0.4 | 1 | J |
| 359 | 16.8 | 53 | J | 8.8 | -11 | 39 | 6.3 | 5.3 | 0.9 | 3 | J |
| 357 | 14.6 | 55 | J | 8.6 | -12 | 37 | 6.5 | 5.1 | 0.7 | 2 | J |
| 356 | 14.8 | 53 | J | 8.6 | -39 | 18 | 6.3 | 4.3 | -3.8 | 1 | J |
| 353 | 14.9 | 55 | J | 7.8 | -51 | 20 | 4.6 | 4.2 | -4.6 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 341 | 17.2 | 0 | C | 6.7 | -50 | 38 | 3.3 | 4.5 | -3.3 | 2 | J |
| 2 | 343 | 13.6 | 35 | J | 7.2 | -33 | 36 | 4.8 | 4.8 | -2.1 | 2 | J |
| 3 | 342 | 21.1 | 0 | C | 6.4 | -33 | 26 | 4.6 | 3.3 | -2.3 | 3 | C |
| 4 | 334 | 19.5 | 0 | C | 6.3 | -60 | 21 | 2.9 | 2.8 | -4.7 | 1 | J |
| 5 | 344 | 12.7 | 47 | J | 6.5 | -33 | 12 | 4.7 | 1.8 | -2.7 | 3 | J |
| 6 | 340 | 12.8 | 29 | J | 7.0 | -24 | 21 | 5.9 | 2.8 | -2.2 | 1 | J |
| 7 | 355 | 18.0 | 52 | J | 4.9 | -39 | 4 | 3.6 | 0.8 | -2.9 | 2 | J |
| 8 | 328 | 16.3 | 0 | C | 6.4 | -28 | 5 | 5.3 | 0.9 | -2.7 | 3 | C |
| 9 | 326 | 16.1 | 0 | C | 4.9 | -5 | 21 | 3.8 | 1.5 | -0.2 | 3 | J |
| 10 | 333 | 17.7 | 0 | C | 4.7 | -3 | 45 | 2.9 | 2.9 | 0.0 | 2 | J |
| 11 | 347 | 18.5 | 91 | J | 5.4 | -15 | 26 | 3.8 | 1.9 | -1.0 | 3 | J |
| 12 | 353 | 18.7 | 66 | J | 5.8 | 35 | 22 | 2.6 | 0.9 | 2.0 | 5 | J |
| 13 | 337 | 20.8 | 0 | C | 4.3 | 60 | 218 | -1.6 | -1.6 | 3.4 | 1 | J |
| 14 | 336 | 20.1 | 0 | C | 5.3 | 11 | 294 | 1.8 | -4.1 | 0.4 | 3 | J |
| 15 | 333 | 23.6 | 0 | C | 5.4 | 15 | 79 | 1.0 | 4.8 | 2.1 | 1 | J |
| 16 | 326 | 24.4 | 0 | C | 5.9 | 5 | 76 | 1.3 | 5.0 | 1.5 | 2 | J |
| 17 | 327 | 21.7 | 0 | C | 6.7 | -54 | 8 | 3.3 | 1.6 | -4.2 | 4 | J |
| 18 | 353 | 11.7 | 50 | J | 9.3 | -66 | 304 | 2.0 | -0.2 | -8.7 | 3 | J |
| 19 | 360 | 12.9 | 47 | J | 8.6 | -47 | 258 | -1.2 | -3.0 | -7.9 | 1 | J |
| 20 | 354 | 12.0 | 40 | J | 8.9 | -46 | 266 | -0.4 | -3.0 | -8.3 | 1 | J |
| 21 | 356 | 12.9 | 39 | J | 9.3 | -41 | 269 | -0.1 | -3.6 | -8.5 | 1 | J |
| 22 | 364 | 16.3 | 43 | J | 11.3 | -34 | 268 | -0.3 | -5.3 | -9.6 | 3 | J |
| 23 | 464 | 32.3 | 135 | J | 16.4 | -17 | 277 | 1.9 | -11.0 | -11.0 | 8 | C |
| 24 | 432 | 52.2 | 0 | C | 29.6 | 15 | 268 | -0.9 | -24.8 | -5.4 | 13 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 410 | 64.7 | 0 | C | 23.7 | 58 | 201 | -10.8 | -11.9 | 15.0 | 8 | C |
| 431 | 47.7 | 0 | C | 23.1 | -37 | 322 | 7.3 | -2.5 | -8.6 | 20 | C |
| 478 | 19.2 | 0 | C | 31.9 | -27 | 310 | 17.5 | -14.2 | -20.8 | 8 | C |
| 483 | 19.7 | 0 | C | 30.2 | -22 | 310 | 17.7 | -16.3 | -17.1 | 5 | C |
| 478 | 20.9 | 0 | C | 28.4 | 6 | 290 | 8.7 | -23.9 | -3.8 | 10 | C |
| | | | | | | | | | | | |
| 477 | 15.9 | 0 | C | 30.4 | -5 | 305 | 16.2 | -22.6 | -6.3 | 9 | C |
| 519 | 27.7 | 0 | C | 26.9 | 21 | 286 | 6.5 | -23.3 | 6.0 | 11 | C |
| 528 | 34.6 | 0 | C | 18.3 | 34 | 285 | 1.0 | -3.9 | 2.2 | 18 | C |
| 494 | 19.6 | 0 | C | 20.6 | 28 | 122 | -8.9 | 13.5 | 9.8 | 7 | C |
| 515 | 17.8 | 0 | C | 16.3 | -14 | 122 | -7.2 | 11.5 | -2.8 | 8 | C |
| 547 | 12.8 | 0 | C | 13.1 | -49 | 122 | -4.3 | 7.4 | -8.9 | 4 | C |
| 550 | 11.9 | 0 | C | 11.1 | -33 | 122 | -4.8 | 8.2 | -5.3 | 2 | C |
| 539 | 10.7 | 0 | C | 10.6 | -12 | 119 | -5.0 | 9.2 | -1.1 | 1 | C |
| 540 | 10.4 | 0 | C | 10.8 | -5 | 111 | -3.7 | 9.9 | 0.6 | 2 | C |
| 529 | 9.4 | 0 | C | 10.2 | 10 | 122 | -4.9 | 7.4 | 3.2 | 3 | C |
| 515 | 8.9 | 0 | C | 10.1 | 1 | 121 | -5.2 | 8.1 | 2.4 | 1 | C |
| 504 | 8.3 | 0 | C | 10.2 | 2 | 119 | -4.7 | 7.9 | 3.0 | 3 | C |
| 503 | 8.0 | 0 | C | 10.4 | 8 | 142 | -7.8 | 5.1 | 3.4 | 3 | C |
| 500 | 7.5 | 0 | C | 10.4 | 29 | 165 | -8.5 | 0.0 | 5.4 | 2 | C |
| | | | | | | | | | | | |
| 456 | 6.7 | 0 | C | 10.2 | -15 | 121 | -5.0 | 8.7 | 1.4 | 1 | C |
| 462 | 7.0 | 0 | C | 9.8 | -5 | 128 | -5.8 | 7.1 | 2.7 | 2 | C |
| 465 | 6.6 | 0 | C | 9.7 | 9 | 143 | -7.2 | 4.2 | 3.7 | 3 | C |

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OF POOR QUALITY

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## MAY 12, 1981

132

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 495 | 7.0 | 0 | C | 9.9 | 41 | 180 | -6.4 | -2.4 | 5.1 | 5 | C |
| 2 | 510 | 6.6 | 0 | C | 10.0 | 50 | 202 | -6.0 | -5.3 | 6.0 | 1 | C |
| 3 | 513 | 5.4 | 0 | C | 9.4 | 51 | 211 | -4.9 | -5.3 | 5.6 | 2 | C |
| 4 | 501 | 5.9 | 0 | C | 8.0 | 45 | 208 | -4.9 | -4.2 | 4.4 | 1 | C |
| 5 | 502 | 5.6 | 0 | C | 7.3 | -27 | 104 | -1.5 | 6.5 | -1.4 | 2 | C |
| 6 | 506 | 6.5 | 0 | C | 7.5 | 19 | 170 | -6.6 | 0.7 | 2.5 | 2 | C |
| 7 | 510 | 5.9 | 0 | C | 7.8 | 32 | 175 | -6.2 | -0.2 | 4.0 | 2 | C |
| 8 | 520 | 5.2 | 0 | C | 7.5 | 41 | 193 | -5.4 | -1.8 | 4.7 | 1 | C |
| 9 | 531 | 5.2 | 0 | C | 7.2 | 27 | 145 | -4.8 | 3.1 | 3.2 | 2 | C |
| 10 | 519 | 5.0 | 0 | C | 7.5 | 33 | 165 | -5.9 | 1.4 | 4.1 | 1 | C |
| 11 | 514 | 4.3 | 0 | C | 7.9 | 30 | 167 | -6.5 | 1.3 | 4.0 | 1 | C |
| 12 | 531 | 4.2 | 0 | C | 8.3 | 49 | 180 | -5.4 | -0.3 | 6.2 | 1 | C |
| 13 | 521 | 4.5 | 0 | C | 7.8 | 48 | 176 | -5.2 | -0.0 | 5.8 | 1 | C |
| 14 | 523 | 3.9 | 0 | C | 7.6 | -21 | 125 | -3.0 | 4.4 | -1.5 | 5 | C |
| 15 | 506 | 3.4 | 0 | C | 8.9 | -33 | 119 | -3.4 | 6.8 | -3.6 | 3 | C |
| 16 | 515 | 3.0 | 0 | C | 9.4 | -36 | 105 | -1.9 | 7.9 | -3.9 | 3 | C |
| 17 | 503 | 2.5 | 0 | C | 9.3 | -29 | 114 | -3.2 | 8.0 | -2.4 | 2 | C |
| 18 | 515 | 2.3 | 0 | C | 9.5 | -41 | 115 | -2.9 | 8.0 | -3.9 | 1 | C |
| 19 | 518 | 2.1 | 0 | C | 9.6 | -40 | 102 | -1.5 | 8.9 | -3.1 | 1 | C |
| 20 | 507 | 2.1 | 0 | C | 9.7 | -36 | 108 | -2.4 | 9.1 | -2.1 | 1 | C |
| 21 | 508 | 2.2 | 0 | C | 9.8 | -32 | 109 | -2.7 | 9.1 | -1.3 | 1 | C |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 528 | 2.8 | 0 | C |  |  |  |  |  |  |  |  |

## MAY 13, 1981

133

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 528 | 2.8 | 0 | C | 8.9 | -47 | 116 | -2.6 | 7.5 | -3.5 | 1 | C |
| 2 | 518 | 3.1 | 0 | C | 8.3 | -33 | 114 | -2.8 | 7.5 | -1.6 | 1 | C |
| 3 | 503 | 3.0 | 0 | C | 7.6 | -12 | 118 | -3.4 | 6.4 | 0.8 | 2 | C |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 510 | 3.2 | 0 | C |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 479 | 7.2 | 0 | C | 9.4 | 51 | 172 | -5.5 | 0.2 | 6.9 | 2 | C |
| 10 | 479 | 7.2 | 0 | C | 7.8 | 46 | 180 | -5.2 | -0.3 | 5.3 | 2 | C |
| 11 | 469 | 8.4 | 0 | C | 7.5 | 46 | 171 | -5.1 | 0.6 | 5.3 | 1 | C |
| 12 | 461 | 7.6 | 0 | C | 7.3 | 34 | 178 | -6.0 | 0.0 | 4.1 | 0 | C |
| 13 | 432 | 6.9 | 0 | C | 8.3 | 32 | 283 | 1.4 | -6.3 | 3.5 | 3 | C |
| 14 | 402 | 5.4 | 0 | C | 7.8 | 44 | 277 | 0.4 | -3.0 | 2.4 | 7 | C |
| 15 | 409 | 4.1 | 0 | C | 6.8 | 27 | 138 | -4.2 | 3.3 | 3.3 | 3 | C |
| 16 | 441 | 3.8 | 0 | C | 6.6 | 32 | 149 | -4.8 | 2.2 | 3.9 | 1 | C |
| 17 | 450 | 3.5 | 0 | C | 6.6 | 30 | 142 | -4.4 | 2.4 | 3.9 | 2 | C |
| 18 | 471 | 4.0 | 0 | C | 7.6 | 47 | 157 | -4.7 | 0.2 | 5.7 | 1 | C |
| 19 | 456 | 4.0 | 0 | C | 7.2 | 59 | 205 | -3.3 | -3.6 | 5.1 | 1 | C |
| 20 | 489 | 4.0 | 0 | C | 6.8 | 46 | 173 | -4.5 | -1.4 | 4.6 | 1 | C |
| 21 | 472 | 3.7 | 0 | C | 6.1 | 39 | 156 | -4.2 | 0.1 | 4.1 | 1 | C |
| 22 | 454 | 4.3 | 0 | C | 5.8 | 31 | 165 | -4.3 | -0.1 | 2.9 | 2 | C |
| 23 | 439 | 5.0 | 0 | C | 5.5 | 19 | 161 | -4.1 | 0.6 | 2.0 | 3 | C |
| 24 | 444 | 5.1 | 0 | C | 5.4 | 17 | 132 | -2.9 | 2.3 | 2.7 | 3 | C |

## MAY 14, 1981

134

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 5.1 | 0 | C | 5.2 | -5 | 137 | -3.4 | 3.0 | 1.0 | 2 | C |
| 2 | 443 | 5.1 | 0 | C | 5.0 | -5 | 144 | -3.5 | 2.6 | 0.7 | 1 | C |
| 3 | 434 | 5.0 | 0 | C | 4.8 | -2 | 146 | -3.2 | 2.1 | 0.7 | 2 | C |
| 4 | 441 | 4.9 | 0 | C | 4.8 | -9 | 125 | -2.5 | 3.5 | 0.4 | 1 | C |
| 5 | 440 | 5.0 | 0 | C | 5.1 | -17 | 121 | -2.1 | 3.7 | -0.3 | 2 | C |
| 6 | 446 | 5.1 | 0 | C | 4.9 | -40 | 186 | -3.1 | 0.2 | -2.6 | 3 | C |
| 7 | 438 | 5.4 | 0 | C | 4.7 | -34 | 240 | -1.3 | -1.9 | -2.0 | 3 | C |
| 8 | 438 | 6.6 | 0 | C | 5.1 | 4 | 193 | -4.4 | -1.0 | 0.2 | 2 | C |
| 9 | 467 | 8.5 | 0 | C | 6.5 | -58 | 87 | 0.1 | 2.3 | -3.0 | 5 | C |
| 10 | 472 | 8.3 | 0 | C | 7.3 | -74 | 67 | 0.6 | 1.7 | -5.0 | 4 | C |
| 11 | 459 | 8.1 | 0 | C | 7.3 | -76 | 201 | -1.4 | -0.3 | -5.9 | 4 | C |
| 12 | 459 | 8.0 | 0 | C | 6.9 | -77 | 235 | -0.7 | -0.7 | -4.8 | 3 | C |
| 13 | 475 | 7.9 | 0 | C | 6.8 | -42 | 21 | 3.3 | 1.4 | -3.1 | 4 | C |
| 14 | 448 | 8.0 | 0 | C | 6.3 | -68 | 97 | -0.2 | 1.9 | -3.7 | 4 | C |
| 15 | 437 | 7.5 | 0 | C | 6.1 | -25 | 132 | -2.9 | 3.4 | -1.5 | 3 | C |
| 16 | 434 | 7.2 | 0 | C | 6.3 | 24 | 170 | -5.5 | 0.5 | 2.6 | 1 | C |
| 17 | 429 | 7.3 | 0 | C | 6.7 | 19 | 153 | -5.5 | 2.3 | 2.7 | 1 | C |
| 18 | 438 | 7.8 | 0 | C | 6.6 | 6 | 140 | -4.4 | 3.4 | 1.7 | 2 | C |
| 19 | 445 | 8.1 | 0 | C | 5.9 | -22 | 144 | -3.9 | 3.4 | -0.8 | 2 | C |
| 20 | 502 | 13.0 | 0 | C | 9.3 | 33 | 129 | -3.5 | 2.6 | 5.0 | 6 | C |
| 21 | 533 | 16.9 | 0 | C | 10.2 | 17 | 128 | -3.1 | 3.0 | 3.1 | 8 | C |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | 497 | 15.6 | 0 | C | 13.8 | -18 | 121 | -5.0 | 8.8 | 0.9 | 9 | C |
| 24 | 460 | 14.0 | 0 | C | 14.3 | -6 | 129 | -8.2 | 9.7 | 3.2 | 4 | C |

## MAY 15, 1981

135

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 444 | 11.1 | 0 | C | 14.4 | 5 | 127 | -8.4 | 9.7 | 5.8 | 3 | C |
| 2 | 451 | 10.5 | 0 | C | 13.7 | -5 | 106 | -3.7 | 12.1 | 3.7 | 3 | C |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 668 | 23.3 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 668 | 23.3 | 0 | C | 12.0 | -37 | 344 | 9.0 | -1.5 | -7.3 | 3 | C |
| 8 | 647 | 14.3 | 0 | C | 11.1 | -22 | 329 | 8.3 | -4.6 | -4.5 | 3 | C |
| 9 | 606 | 4.5 | 0 | C | 12.0 | -17 | 313 | 7.8 | -8.0 | -4.0 | 1 | C |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 603 | 5.1 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 603 | 5.1 | 0 | C | 10.9 | -4 | 302 | 5.8 | -9.0 | -2.0 | 0 | C |
| 16 | 551 | 4.7 | 0 | C | 10.4 | -12 | 298 | 4.8 | -8.4 | -3.7 | 1 | C |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 546 | 4.4 | 0 | C | 9.6 | -18 | 300 | 4.5 | -6.5 | -5.1 | 1 | C |
| 19 | 542 | 4.7 | 0 | C | 9.1 | -20 | 301 | 4.4 | -5.8 | -5.4 | 1 | C |
| 20 | 546 | 4.0 | 0 | C | 8.8 | -23 | 300 | 4.0 | -5.1 | -5.8 | 1 | C |
| 21 | 531 | 3.4 | 0 | C | 8.7 | -18 | 305 | 4.7 | -5.0 | -5.2 | 1 | C |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 533 | 3.5 | 0 | C |  |  |  |  |  |  |  |  |

## MAY 16, 1981

136

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 525 | 3.5 | 0 | C | 7.8 | -23 | 324 | 5.6 | -2.6 | -4.2 | 2 | C |
| 3 | 529 | 3.4 | 0 | C | 7.4 | -27 | 330 | 5.3 | -1.8 | -4.0 | 2 | C |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 525 | 3.6 | 0 | C | 7.3 | -15 | 329 | 3.6 | -1.8 | -1.6 | 6 | C |
| 6 | 522 | 3.5 | 0 | C | 6.9 | 4 | 42 | 4.9 | 4.3 | 1.4 | 1 | C |
| 7 | 643 | 7.6 | 0 | C | 13.4 | -27 | 284 | 2.3 | -8.6 | -6.2 | 6 | C |
| 8 | 681 | 10.0 | 0 | C | 10.8 | 32 | 260 | -0.8 | -4.8 | 2.3 | 8 | C |
| 9 | 681 | 8.6 | 0 | C | 9.2 | -40 | 249 | -0.8 | -2.1 | -2.1 | 8 | C |
| 10 | 703 | 7.7 | 0 | C | 9.1 | 9 | 220 | -6.2 | -5.2 | 1.1 | 3 | C |
| 11 | 696 | 5.6 | 0 | C | 11.0 | -50 | 301 | 3.5 | -5.6 | -8.4 | 2 | C |
| 12 | 704 | 5.0 | 0 | C | 11.0 | -45 | 292 | 2.8 | -6.6 | -7.7 | 2 | C |
| 13 | 689 | 4.5 | 0 | C | 11.2 | -37 | 284 | 2.2 | -8.2 | -7.0 | 1 | C |
| 14 | 670 | 4.2 | 0 | C | 10.6 | -33 | 305 | 5.1 | -6.8 | -6.2 | 0 | C |
| 15 | 678 | 4.7 | 0 | C | 10.0 | -36 | 305 | 4.7 | -5.8 | -6.6 | 1 | C |
| 16 | 677 | 6.6 | 0 | C | 8.0 | 3 | 286 | 1.6 | -5.5 | -0.6 | 5 | C |
| 17 | 648 | 6.6 | 0 | C | 11.0 | 22 | 242 | -3.1 | -6.2 | 1.2 | 9 | J |
| 18 | 635 | 5.4 | 0 | C | 11.0 | -20 | 218 | -7.9 | -4.9 | -5.3 | 3 | J |
| 19 | 628 | 5.2 | 0 | C | 8.4 | -15 | 234 | -4.1 | -4.7 | -3.7 | 4 | J |
| 20 |  |  |  |  | 6.5 | 26 | 266 | -0.4 | -5.7 | 0.3 | 3 | J |
| 21 | 527 | 4.9 | 0 | C | 7.0 | 38 | 307 | 2.7 | -4.7 | 1.7 | 4 | J |
| 22 | 516 | 4.3 | 0 | C | 9.8 | 32 | 349 | 7.7 | -3.5 | 3.8 | 3 | J |
| 23 | 565 | 3.2 | 0 | C | 9.3 | 35 | 344 | 6.9 | -4.0 | 3.7 | 4 | J |
| 24 | 563 | 3.0 | 0 | C | 8.3 | 35 | 334 | 5.7 | -4.4 | 2.8 | 2 | J |

## MAY 17, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 518 | 3.3 | 0 | C | 7.0 | 36 | 328 | 4.5 | -4.1 | 2.5 | 2 | J |
| 3 | 524 | 3.1 | 0 | C | 8.5 | 42 | 334 | 5.3 | -4.2 | 4.1 | 3 | J |
| 4 | 462 | 3.2 | 0 | C | 4.3 | 16 | 360 | 4.1 | -0.4 | 1.1 | 1 | C |
| 5 | 469 | 3.6 | 0 | C | 10.1 | 47 | 330 | 5.8 | -5.0 | 6.2 | 2 | J |
| 6 | 516 | 2.7 | 0 | C | 9.8 | 21 | 13 | 8.1 | 1.2 | 3.5 | 4 | J |
| 7 | 512 | 2.8 | 0 | C | 9.7 | 9 | 25 | 8.1 | 3.6 | 1.9 | 3 | J |
| 8 | 508 | 3.0 | 0 | C | 9.5 | 11 | 25 | 7.8 | 3.5 | 2.0 | 3 | J |
| 9 | 485 | 3.1 | 0 | C | 9.0 | 12 | 22 | 7.7 | 3.0 | 2.0 | 3 | J |
| 10 | 415 | 3.5 | 0 | C | 9.8 | 24 | 9 | 8.4 | 1.2 | 3.8 | 3 | J |
| 11 | 441 | 3.2 | 0 | C | 9.2 | 32 | 346 | 7.2 | -1.9 | 4.6 | 2 | J |
| 12 | 462 | 2.7 | 0 | C | 4.2 | 18 | 1 | 3.9 | 0.0 | 1.3 | 0 | C |
| 13 | 457 | 2.7 | 0 | C | 8.8 | -3 | 23 | 7.0 | 3.0 | -0.3 | 3 | J |
| 14 | 460 | 2.9 | 0 | C | 5.1 | -23 | 0 | 4.1 | 0.1 | -1.8 | 2 | J |
| 15 | 466 | 3.1 | 0 | C | 5.8 | -6 | 264 | -0.6 | -5.1 | -1.2 | 3 | J |
| 16 | 471 | 2.9 | 0 | C | 5.3 | -1 | 246 | -2.1 | -4.7 | -0.9 | 2 | J |
| 17 | 453 | 3.4 | 0 | C | 5.2 | 1 | 243 | -2.3 | -4.4 | -0.9 | 1 | J |
| 18 | 423 | 4.1 | 0 | C | 5.0 | 11 | 250 | -1.7 | -4.7 | -0.4 | 1 | J |
| 19 | 410 | 4.4 | 0 | C | 4.5 | 23 | 266 | -0.3 | -4.4 | 0.3 | 1 | J |
| 20 | 416 | 4.8 | 0 | C | 5.3 | 33 | 268 | -0.2 | -5.2 | 1.0 | 1 | J |
| 21 | 436 | 5.9 | 0 | C | 4.6 | 22 | 265 | -0.4 | -4.5 | -0.2 | 2 | J |
| 22 | 457 | 5.1 | 0 | C | 2.7 | 17 | 276 | 0.2 | -2.4 | -0.3 | 1 | J |
| 23 | 430 | 4.3 | 0 | C | 3.9 | -6 | 315 | 2.4 | -2.1 | -1.4 | 2 | C |
| 24 | 554 | 14.6 | 0 | C | 10.9 | -15 | 260 | -1.4 | -6.2 | -5.2 | 6 | C |

## MAY 18, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 721 | 2 .3 | 911 | J | 15.0 | 21 | 240 | -4.6 | -8.6 | 0.0 | 8 | C |
| 2 | 706 | 16.5 | 760 | J | 14.1 | 79 | 330 | 1.4 | -3.8 | 7.4 | 11 | C |
| 3 | 690 | 14.1 | 573 | J | 14.6 | 62 | 78 | 1.2 | 1.7 | 12.3 | 7 | C |
| 4 | 751 | 9.7 | 760 | J | 21.8 | 22 | 304 | 8.8 | -14.1 | 2.3 | 14 | C |
| 5 | 761 | 13.7 | 774 | J | 26.4 | -17 | 304 | 13.7 | -18.1 | -11.9 | 7 | C |
| 6 | 772 | 15.8 | 491 | J | 18.9 | -30 | 84 | 1.1 | 11.8 | -4.3 | 13 | C |
| 7 | 778 | 20.0 | 0 | C | 14.9 | -27 | 307 | 4.0 | -4.7 | -4.1 | 13 | C |
| 8 | 770 | 13.4 | 0 | C | 12.6 | -3 | 296 | 5.1 | -10.4 | -1.5 | 4 | C |
| 9 | 799 | 11.3 | 64 | J | 14.5 | 4 | 287 | 3.7 | -12.1 | 0.3 | 6 | C |
| 10 | 788 | 11.5 | 0 | C | 14.5 | 8 | 318 | 10.4 | -9.4 | 1.6 | 3 | C |
| 11 | 780 | 11.1 | 0 | C | 13.8 | 9 | 325 | 10.4 | -7.5 | 1.9 | 4 | C |
| 12 | 756 | 11.6 | 0 | C | 12.4 | 10 | 332 | 4.0 | -2.2 | 0.7 | 11 | C |
| 13 | 690 | 3.0 | 135 | J | 14.4 | -27 | 114 | -5.2 | 11.7 | -6.0 | 3 | C |
| 14 | 724 | 2.0 | 90 | J |  |  |  |  |  |  |  |  |
| 15 | 470 | 3.1 | 0 | C | 14.7 | -36 | 103 | -2.7 | 12.4 | -7.4 | 2 | C |
| 16 | 670 | 1.4 | 52 | J | 14.3 | -38 | 108 | -3.5 | 12.0 | -6.8 | 1 | C |
| 17 | 666 | 2.6 | 46 | J | 12.7 | -39 | 111 | -3.5 | 10.7 | -5.7 | 1 | J |
| 18 | 661 | 3.0 | 75 | J | 11.6 | -41 | 125 | -5.0 | 8.9 | -5.3 | 1 | J |
| 19 | 627 | 3.1 | 55 | J | 11.5 | -46 | 117 | -3.6 | 9.4 | -5.4 | 2 | J |
| 20 | 604 | 1.6 | 45 | J | 11.9 | -40 | 94 | -0.6 | 11.3 | -3.7 | 1 | J |
| 21 | 608 | 1.5 | 61 | J | 11.0 | -37 | 75 | 2.3 | 10.3 | -2.6 | 1 | J |
| 22 | 621 | 1.6 | 76 | J | 10.7 | -30 | 62 | 4.3 | 9.6 | -1.4 | 2 | J |
| 23 | 641 | 1.5 | 117 | J | 9.5 | -6 | 30 | 7.0 | 4.0 | 0.9 | 5 | J |
| 24 | 648 | 1.6 | 80 | L | 9.3 | 21 | 356 | 8.6 | -1.9 | 2.7 | 1 | J |

## MAY 19, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 657 | 2.4 | 66 | J | 8.9 | 8 | 358 | 8.2 | -0.7 | 0.9 | 3 | J |
| 2 | 614 | 3.0 | 0 | C | 8.9 | 13 | 6 | 8.4 | 0.2 | 2.1 | 2 | C |
| 3 | 619 | 3.8 | 46 | J | 7.6 | 10 | 9 | 6.3 | 0.6 | 1.4 | 4 | J |
| 4 | 622 | 4.3 | 53 | J | 8.3 | -6 | 20 | 7.6 | 2.9 | -0.0 | 2 | J |
| 5 | 626 | 4.8 | 71 | J | 8.4 | -23 | 29 | 6.7 | 4.3 | -2.3 | 1 | J |
| 6 | 631 | 4.5 | 59 | J | 8.1 | -32 | 25 | 5.5 | 3.2 | -3.3 | 4 | J |
| 7 | 621 | 4.8 | 61 | J | 7.5 | -36 | 359 | 5.8 | 0.4 | -4.2 | 2 | J |
| 8 | 623 | 3.5 | 60 | J | 6.5 | -14 | 27 | 4.8 | 2.6 | -1.1 | 3 | J |
| 9 | 661 | 3.0 | 80 | J | 5.8 | 61 | 314 | 1.5 | -1.8 | 3.9 | 4 | J |
| 10 | 638 | 2.8 | 59 | J | 5.4 | 34 | 352 | 2.5 | -0.4 | 1.7 | 4 | J |
| 11 | 608 | 2.8 | 0 | C | 5.5 | -46 | 326 | 2.4 | -1.6 | -3.1 | 3 | C |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 588 | 2.1 | 73 | J | 4.9 | 26 | 326 | 3.4 | -2.3 | 1.9 | 2 | J |
| 14 | 549 | 2.4 | 0 | C | 4.7 | -8 | 346 | 4.1 | -1.0 | -0.6 | 2 | C |
| 15 | 574 | 1.9 | 128 | L | 4.7 | -28 | 314 | 2.7 | -2.6 | -2.3 | 2 | J |
| 16 | 584 | 1.9 | 146 | L | 4.8 | -35 | 57 | 2.1 | 3.5 | -2.1 | 2 | J |
| 17 | 568 | 2.3 | 0 | C | 4.8 | -38 | 6 | 3.4 | 0.9 | -2.5 | 2 | C |
| 18 | 579 | 2.8 | 68 | J | 5.2 | -9 | 322 | 3.4 | -2.4 | -1.4 | 3 | J |
| 19 | 570 | 2.6 | 58 | J | 5.7 | 4 | 1 | 5.3 | -0.0 | 0.4 | 2 | J |
| 20 | 576 | 2.9 | 73 | J | 5.4 | 4 | 351 | 4.7 | -0.8 | 0.0 | 2 | J |
| 21 | 601 | 3.2 | 103 | J | 5.6 | 30 | 339 | 4.2 | -2.5 | 1.7 | 2 | J |
| 22 | 635 | 3.5 | 148 | J | 6.1 | 21 | 321 | 3.7 | -3.5 | 0.4 | 3 | J |
| 23 | 644 | 3.5 | 98 | J | 7.0 | 18 | 309 | 4.1 | -5.4 | -0.2 | 2 | J |
| 24 | 619 | 3.9 | 139 | J | 6.3 | -7 | 311 | 3.8 | -3.7 | -2.4 | 2 | J |

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MAY 20, 1981 140

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 631 | 3.9 | 190 | J | 5.0 | -39 | 319 | 2.2 | -0.8 | -2.9 | 3 | J |
| 2 | 627 | 4.1 | 145 | J | 4.7 | -63 | 47 | 1.2 | 2.5 | -2.8 | 3 | J |
| 3 | 624 | 4.3 | 196 | J | 4.7 | -67 | 62 | 0.6 | 2.2 | -2.7 | 3 | J |
| 4 | 604 | 4.2 | 165 | J | 4.7 | -23 | 29 | 2.9 | 1.9 | -0.9 | 3 | J |
| 5 | 599 | 5.2 | 161 | J | 5.3 | -29 | 297 | 1.5 | -2.5 | -2.5 | 4 | J |
| 6 | 682 | 8.3 | 276 | J | 7.8 | -46 | 233 | -3.1 | -3.1 | -5.9 | 4 | J |
| 7 | 671 | 10.5 | 483 | J | 8.2 | -68 | 162 | -1.7 | 1.1 | -4.4 | 7 | J |
| 8 | 631 | 7.7 | 429 | J | 7.7 | -35 | 300 | 2.6 | -4.2 | -4.0 | 4 | J |
| 9 | 673 | 3.5 | 344 | J | 9.5 | 2 | 342 | 8.4 | -2.7 | 0.2 | 4 | J |
| 10 | 650 | 4.4 | 289 | J | 6.6 | 57 | 74 | 0.9 | 3.2 | 5.3 | 2 | J |
| 11 | 662 | 4.0 | 198 | J | 7.8 | 68 | 8 | 1.5 | 0.2 | 3.7 | 7 | J |
| 12 | 655 | 3.3 | 235 | J | 9.0 | -16 | 311 | 5.5 | -6.3 | -2.4 | 2 | J |
| 13 | 702 | 1.4 | 147 | J | 8.2 | -30 | 321 | 5.3 | -4.2 | -4.1 | 2 | J |
| 14 | 709 | 1.3 | 203 | J | 7.4 | -23 | 324 | 5.4 | -3.7 | -3.0 | 2 | J |
| 15 | 685 | 1.6 | 186 | J | 7.2 | -18 | 327 | 5.6 | -3.4 | -2.5 | 2 | J |
| 16 | 673 | 2.1 | 0 | C | 6.6 | -3 | 336 | 5.8 | -2.5 | -0.7 | 1 | J |
| 17 | 658 | 1.9 | 0 | C | 6.9 | -14 | 322 | 5.2 | -3.6 | -2.5 | 1 | J |
| 18 | 699 | 1.4 | 105 | J | 6.9 | -21 | 319 | 4.8 | -3.4 | -3.5 | 1 | J |
| 19 | 693 | 1.5 | 93 | J | 6.7 | -22 | 314 | 4.2 | -3.3 | -3.7 | 1 | J |
| 20 | 664 | 2.2 | 88 | J | 6.4 | -25 | 286 | 1.5 | -3.9 | -4.2 | 2 | J |
| 21 | 608 | 2.1 | 107 | J | 6.7 | -14 | 330 | 5.0 | -2.1 | -2.4 | 3 | J |
| 22 | 573 | 2.1 | 83 | J | 6.2 | 4 | 339 | 5.3 | -2.0 | -0.5 | 2 | J |
| 23 | 576 | 1.8 | 84 | J | 5.5 | 7 | 329 | 4.4 | -2.7 | -0.5 | 2 | J |
| 24 | 588 | 1.8 | 131 | L | 5.5 | 3 | 307 | 2.9 | -3.7 | -1.4 | 3 | J |

MAY 22, 1981 142

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 531 | 3.5 | 156 | J | 4.7 | 23 | 351 | 3.8 | -1.2 | 1.3 | 2 | J |
| 2 | 509 | 4.1 | 0 | C | | | | | | | | |
| 3 | 511 | 3.5 | 0 | C | 3.4 | 11 | 302 | 1.7 | -2.8 | -0.2 | 1 | J |
| 4 | 567 | 2.8 | 78 | J | 3.6 | -3 | 266 | -0.2 | -3.1 | -1.0 | 2 | J |
| 5 | 524 | 3.2 | 0 | C | 3.5 | -20 | 259 | -0.3 | -1.7 | -1.1 | 3 | C |
| 6 | 476 | 4.2 | 0 | C | 3.5 | 3 | 321 | 2.1 | -1.7 | -0.1 | 2 | C |
| 7 | 568 | 2.7 | 66 | J | 4.0 | 25 | 236 | -1.8 | -2.9 | 1.2 | 2 | J |
| 8 | 557 | 2.8 | 66 | J | 4.3 | 13 | 227 | -2.9 | -3.1 | 0.8 | 1 | J |
| 9 | 528 | 3.0 | 81 | J | 3.7 | 11 | 252 | -1.1 | -3.3 | 0.6 | 1 | J |
| 10 | 517 | 2.7 | 62 | J | 3.7 | 26 | 307 | 1.9 | -2.6 | 1.6 | 1 | J |
| 11 | 511 | 3.0 | 57 | J | 4.0 | 30 | 335 | 3.1 | -1.4 | 2.0 | 1 | J |
| 12 | 512 | 2.7 | 53 | J | 4.1 | 15 | 333 | 3.4 | -1.8 | 1.0 | 1 | J |
| 13 | 512 | 2.7 | 59 | J | 4.1 | 0 | 303 | 2.1 | -3.2 | -0.0 | 1 | J |
| 14 | 504 | 2.7 | 45 | J | 4.1 | -7 | 282 | 0.8 | -4.0 | -0.7 | 1 | J |
| 15 | 506 | 1.8 | 41 | J | 4.5 | 10 | 326 | 3.6 | -2.5 | 0.6 | 1 | J |
| 16 | 506 | 1.9 | 46 | J | 4.4 | -5 | 324 | 3.5 | -2.4 | -0.7 | 1 | J |
| 17 | 501 | 1.8 | 41 | J | 4.3 | 0 | 324 | 3.5 | -2.5 | -0.5 | 1 | J |
| 18 | 491 | 1.8 | 47 | J | 4.4 | -1 | 326 | 3.6 | -2.4 | -0.7 | 0 | J |
| 19 | 485 | 2.0 | 57 | J | 4.5 | -6 | 322 | 3.5 | -2.5 | -1.3 | 1 | J |
| 20 | 493 | 2.0 | 63 | J | 4.7 | -2 | 320 | 3.5 | -2.7 | -1.2 | 1 | J |
| 21 | 483 | 1.8 | 64 | J | 5.0 | -4 | 326 | 4.0 | -2.4 | -1.4 | 1 | J |
| 22 | 471 | 2.6 | 45 | J | 5.7 | 9 | 347 | 5.0 | -1.4 | 0.3 | 2 | J |
| 23 | 462 | 3.2 | 40 | J | 5.9 | 9 | 358 | 5.4 | -0.5 | 0.7 | 1 | J |
| 24 | 473 | 3.7 | 55 | J | 6.4 | 17 | 17 | 5.3 | 0.8 | 2.2 | 2 | J |

MAY 24, 1981 144

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 3.0 | 0 | C | | | | | | | | |
| 2 | 411 | 3.4 | 0 | C | 7.0 | -19 | 265 | -0.6 | -5.5 | -4.3 | 0 | C |
| 3 | 403 | 4.1 | 0 | C | 6.8 | -19 | 261 | -1.0 | -5.4 | -4.0 | 0 | C |
| 4 | 401 | 4.3 | 0 | C | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 352 | 4.1 | 0 | C | | | | | | | | |
| 7 | 352 | 4.1 | 0 | C | 9.8 | -27 | 285 | 2.3 | -8.0 | -5.2 | 2 | C |
| 8 | 441 | 4.9 | 0 | C | 10.7 | -19 | 280 | 1.8 | -9.6 | -4.0 | 2 | C |
| 9 | 440 | 6.1 | 0 | C | 11.3 | -13 | 280 | 1.8 | -10.8. | -2.7 | 1 | C |
| 10 | 436 | 5.9 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 415 | 5.1 | 0 | C | | | | | | | | |
| 18 | 415 | 5.1 | 0 | C | 9.5 | 4 | 283 | 1.9 | -8.5 | -1.4 | 3 | C |
| 19 | 427 | 6.7 | 0 | C | 9.9 | 40 | 300 | 3.3 | -7.1 | 3.6 | 3 | C |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 26, 1981 146

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 400 | 3.7 | 0 | C | 7.9 | -12 | 303 | 4.2 | -5.6 | -3.6 | 0 | C |
| 3 | 402 | 3.7 | 0 | C | 7.9 | -15 | 297 | 3.4 | -6.0 | -3.9 | 0 | C |
| 4 | 414 | 3.2 | 0 | C | 8.2 | -12 | 298 | 3.8 | -6.4 | -3.3 | 0 | C |
| 5 | 412 | 3.2 | 0 | C | 8.2 | -10 | 296 | 3.6 | -6.9 | -2.8 | 0 | C |
| 6 | 409 | 3.3 | 0 | C | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 368 | 2.4 | 0 | C | 8.8 | 4 | 293 | 3.4 | -8.1 | 0.5 | 0 | C |
| 10 | 368 | 2.4 | 0 | C | 8.9 | 6 | 295 | 3.7 | -8.0 | 1.1 | 0 | C |
| 11 | 367 | 2.4 | 0 | C | 8.9 | 9 | 293 | 3.4 | -8.1 | 1.7 | 0 | C |
| 12 | 377 | 2.4 | 0 | C | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 372 | 2.3 | 0 | C | 8.7 | 32 | 282 | 1.5 | -7.4 | 4.1 | 0 | C |
| 16 | 372 | 2.3 | 0 | C | 8.6 | 32 | 282 | 1.5 | -7.6 | 3.7 | 0 | C |
| 17 | 373 | 2.3 | 0 | C | 8.2 | 21 | 293 | 2.9 | -7.2 | 1.6 | 2 | C |
| 18 | 394 | 3.1 | 0 | C | 8.1 | 22 | 300 | 3.8 | -7.0 | 1.5 | 0 | C |
| 19 | 351 | 3.3 | 0 | C | 8.4 | 24 | 304 | 4.3 | -7.1 | 1.4 | 1 | C |
| 20 | 370 | 1.7 | 0 | C | 8.4 | 23 | 301 | 4.0 | -7.3 | 0.9 | 1 | C |
| 21 | 375 | 1.3 | 0 | C | 8.0 | 35 | 277 | 0.8 | -7.6 | 1.9 | 1 | C |
| 22 | 429 | 3.8 | 0 | C | 7.9 | 32 | 269 | -0.1 | -7.8 | 1.4 | 1 | C |
| 23 | 391 | 4.9 | 0 | C | 7.0 | 25 | 290 | 2.2 | -6.5 | 0.5 | 1 | C |
| 24 | 389 | 10.7 | 0 | C | 6.8 | 34 | 280 | 1.0 | -6.5 | 1.5 | 1 | C |

MAY 21, 1981 141

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 572 | 1.7 | 117 | L | 5.2 | 21 | 318 | 3.3 | -3.4 | 0.4 | 2 | J |
| 2 | 566 | 1.7 | 100 | J | 5.2 | 22 | 315 | 3.3 | -3.8 | 0.6 | 1 | J |
| 3 | 567 | 2.5 | 119 | L | 4.7 | 44 | 284 | 0.8 | -4.0 | 2.0 | 1 | J |
| 4 | 537 | 2.4 | 0 | C | 4.8 | 22 | 293 | 1.7 | -4.4 | 0.6 | 1 | C |
| 5 | 527 | 2.7 | 0 | C | 4.9 | 8 | 296 | 1.9 | -4.0 | -0.2 | 2 | C |
| 6 | 518 | 2.8 | 0 | C | 4.7 | 19 | 309 | 2.4 | -3.1 | 0.8 | 2 | C |
| 7 | 517 | 2.7 | 0 | C | 4.7 | -3 | 304 | 2.3 | -3.3 | -0.6 | 2 | C |
| 8 | 510 | 2.2 | 51 | J | 4.3 | 3 | 0 | 4.0 | -0.0 | 0.2 | 1 | J |
| 9 | 499 | 2.6 | 0 | C | 4.4 | -6 | 359 | 4.3 | -0.1 | -0.5 | 0 | J |
| 10 | 510 | 2.8 | 53 | J | 3.8 | -53 | 330 | 1.8 | -1.0 | -2.8 | 1 | J |
| 11 | 504 | 2.9 | 49 | J | 4.0 | -36 | 351 | 3.1 | -0.5 | -2.3 | 1 | J |
| 12 | 494 | 2.3 | 78 | L | 4.0 | -27 | 360 | 3.4 | -0.0 | -1.7 | 1 | J |
| 13 | 511 | 3.0 | 60 | J | 4.2 | 29 | 9 | 2.9 | 0.4 | 1.7 | 2 | J |
| 14 | 518 | 3.6 | 0 | C | 4.3 | 46 | 73 | 0.9 | 2.6 | 3.2 | 1 | J |
| 15 | 498 | 3.9 | 0 | C | 4.2 | 25 | 357 | 3.4 | -0.3 | 1.6 | 2 | C |
| 16 | 505 | 3.7 | 80 | J | 4.1 | 3 | 19 | 3.4 | 1.1 | 0.4 | 2 | J |
| 17 | 500 | 3.3 | 80 | J | 4.2 | 29 | 352 | 3.3 | -0.8 | 1.7 | 2 | J |
| 18 | 508 | 3.8 | 62 | J | 3.9 | 41 | 331 | 1.7 | -1.4 | 1.4 | 3 | J |
| 19 | 513 | 4.0 | 68 | J | 3.7 | -13 | 286 | 0.7 | -2.1 | -1.3 | 3 | J |
| 20 | 527 | 5.1 | 73 | J | 4.5 | -24 | 279 | 0.5 | -2.6 | -2.6 | 3 | J |
| 21 | 525 | 4.8 | 70 | J | 4.9 | -49 | 273 | 0.2 | -1.4 | -4.3 | 2 | J |
| 22 | 556 | 4.5 | 77 | J | 5.5 | -34 | 223 | -3.1 | -1.5 | -3.8 | 2 | J |
| 23 | 539 | 4.3 | 84 | J | 5.5 | 17 | 253 | -1.1 | -3.8 | -0.4 | 4 | J |
| 24 | 519 | 3.5 | 80 | J | 5.2 | 33 | 0 | 3.8 | -1.0 | 2.2 | 2 | J |

MAY 23, 1981 143

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 479 | 4.0 | 68 | J | 6.7 | 24 | 11 | 5.6 | 0.1 | 2.8 | 2 | J |
| 2 | 465 | 4.2 | 63 | J | 7.6 | 26 | 353 | 6.7 | -1.9 | 2.8 | 1 | J |
| 3 | 471 | 4.3 | 68 | J | 6.2 | 22 | 328 | 4.2 | -3.1 | 1.1 | 3 | J |
| 4 | | | | | | | | | | | | |
| 5 | 473 | 4.1 | 103 | J | 5.9 | -15 | 6 | 5.2 | 0.8 | -1.3 | 2 | J |
| 6 | 480 | 5.5 | 115 | J | 7.0 | -17 | 27 | 5.7 | 3.2 | -1.5 | 2 | J |
| 7 | 481 | 5.2 | 105 | J | 7.4 | -31 | 28 | 5.1 | 3.0 | -3.2 | 3 | J |
| 8 | 499 | 4.5 | 48 | J | 8.2 | -55 | 252 | -1.3 | -3.7 | -6.3 | 3 | J |
| 9 | 492 | 5.1 | 44 | J | 7.9 | -30 | 229 | -4.0 | -4.5 | -3.7 | 3 | J |
| 10 | 468 | 5.8 | 62 | J | | | | | | | | |
| 11 | 456 | 6.3 | 41 | J | | | | | | | | |
| 12 | 435 | 5.0 | 65 | J | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 431 | 4.4 | 0 | C | 8.7 | -1 | 240 | -4.2 | -7.3 | -1.1 | 2 | C |
| 17 | 431 | 4.4 | 0 | C | 8.3 | -27 | 263 | -0.9 | -6.2 | -4.9 | 2 | C |
| 18 | 424 | 3.1 | 0 | C | 8.4 | -28 | 259 | -1.4 | -6.1 | -5.6 | 0 | C |
| 19 | 438 | 2.6 | 0 | C | 8.4 | -30 | 243 | -3.2 | -4.9 | -6.0 | 1 | C |
| 20 | 441 | 2.6 | 0 | C | 7.8 | -23 | 266 | -0.5 | -5.6 | -5.3 | 0 | C |
| 21 | 433 | 2.8 | 0 | C | 7.6 | -23 | 268 | -0.3 | -5.3 | -5.3 | 1 | C |
| 22 | 436 | 2.8 | 0 | C | 7.8 | -17 | 275 | 0.7 | -5.9 | -5.0 | 0 | C |
| 23 | 403 | 2.6 | 0 | C | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 25, 1981 145

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 369 | 2.3 | 0 | C | | | | | | | | |
| 3 | 384 | 2.3 | 0 | C | 9.7 | -31 | 299 | 4.0 | -5.3 | -6.7 | 1 | C |
| 4 | 401 | 2.0 | 0 | C | 9.8 | -11 | 302 | 5.0 | -7.5 | -3.7 | 1 | C |
| 5 | 424 | 2.9 | 0 | C | 9.5 | -33 | 296 | 3.3 | -5.7 | -6.2 | 3 | C |
| 6 | 418 | 5.1 | 0 | C | 8.9 | -48 | 283 | 1.4 | -4.8 | -7.3 | 1 | C |
| 7 | 419 | 6.1 | 0 | C | 8.4 | -58 | 255 | -1.1 | -3.6 | -7.4 | 1 | C |
| 8 | 414 | 6.1 | 0 | C | 8.3 | -63 | 225 | -2.6 | -2.3 | -7.3 | 1 | C |
| 9 | 393 | 5.2 | 0 | C | 8.4 | -32 | 306 | 3.9 | -5.3 | -4.2 | 3 | C |
| 10 | 400 | 6.9 | 0 | C | 8.2 | -11 | 314 | 4.6 | -4.8 | -1.2 | 4 | C |
| 11 | 416 | 8.2 | 0 | C | 6.8 | -62 | 255 | -0.7 | -2.8 | -5.3 | 3 | C |
| 12 | 432 | 8.9 | 0 | C | 7.4 | -67 | 217 | -2.3 | -1.9 | -6.7 | 1 | C |
| 13 | 427 | 9.2 | 0 | C | 6.8 | -70 | 268 | -0.1 | -2.3 | -6.3 | 0 | C |
| 14 | 419 | 9.4 | 0 | C | 6.8 | -68 | 244 | -1.1 | -2.1 | -6.2 | 1 | C |
| 15 | 407 | 8.7 | 0 | C | 6.6 | -57 | 213 | -3.0 | -1.6 | -5.6 | 1 | C |
| 16 | 402 | 9.9 | 0 | C | 7.4 | -51 | 192 | -4.5 | -0.2 | -5.8 | 1 | C |
| 17 | 402 | 8.9 | 0 | C | 7.1 | -51 | 276 | 0.4 | -3.1 | -5.8 | 2 | C |
| 18 | 401 | 8.2 | 0 | C | 7.7 | -52 | 282 | 1.0 | -3.0 | -6.8 | 1 | C |
| 19 | 432 | 7.7 | 0 | C | 8.5 | -59 | 219 | -3.2 | -0.4 | -7.5 | 2 | C |
| 20 | 449 | 9.9 | 0 | C | 7.0 | -36 | 289 | 1.5 | -3.1 | -4.8 | 4 | C |
| 21 | 428 | 6.7 | 0 | C | 8.1 | -10 | 306 | 4.7 | -5.4 | -3.7 | 1 | C |
| 22 | 415 | 4.0 | 0 | C | 8.0 | -8 | 307 | 4.7 | -5.4 | -3.4 | 1 | C |
| 23 | 414 | 3.8 | 0 | C | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 27, 1981 147

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 375 | 10.0 | 0 | C | 7.1 | 49 | 267 | -0.2 | -6.1 | 3.3 | 1 | C |
| 2 | 361 | 8.7 | 0 | C | 7.3 | 39 | 242 | -2.6 | -6.2 | 2.8 | 1 | C |
| 3 | 358 | 8.9 | 0 | C | 7.4 | 36 | 248 | -2.3 | -6.5 | 2.6 | 1 | C |
| 4 | 363 | 10.5 | 0 | C | 6.8 | 25 | 251 | -2.0 | -6.3 | 1.5 | 1 | C |
| 5 | 361 | 11.1 | 0 | C | 7.0 | 25 | 265 | -0.5 | -6.6 | 1.7 | 1 | C |
| 6 | 358 | 10.4 | 0 | C | 7.8 | 13 | 257 | -1.7 | -7.6 | 0.8 | 0 | C |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 370 | 11.0 | 0 | C | 6.1 | 47 | 120 | -2.0 | 2.7 | 4.9 | 1 | C |
| 18 | 370 | 11.0 | 0 | C | 6.3 | 51 | 114 | -1.5 | 2.2 | 5.2 | 2 | C |
| 19 | 351 | 12.1 | 0 | C | 5.9 | 31 | 227 | -2.6 | -3.3 | 1.4 | 4 | C |
| 20 | 362 | 13.4 | 0 | C | 6.7 | -7 | 284 | 1.6 | -5.7 | -2.8 | 1 | C |
| 21 | 365 | 14.2 | 0 | C | 6.4 | -2 | 268 | -0.2 | -4.8 | -2.0 | 3 | C |
| 22 | 361 | 14.1 | 0 | C | 5.4 | 59 | 264 | -0.2 | -3.5 | 2.7 | 3 | C |
| 23 | 361 | 15.3 | 0 | C | 5.8 | -49 | 129 | -2.2 | 4.0 | -2.7 | 2 | C |
| 24 | 353 | 15.2 | 0 | C | 5.4 | -31 | 226 | -2.5 | -1.6 | -3.0 | 3 | C |

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MAY 28, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 360 | 15.1 | 0 | C | 5.1 | -38 | 132 | -1.4 | 2.1 | -1.0 | 4 | C |
| 2 | 360 | 13.4 | 0 | C | 6.5 | 8 | 117 | -2.6 | 4.7 | 2.4 | 2 | C |
| 3 | 367 | 12.3 | 0 | C | 6.3 | 32 | 118 | -1.8 | 2.6 | 3.3 | 4 | C |
| 4 | 373 | 11.8 | 0 | C | 6.8 | -70 | 265 | -0.2 | -0.8 | -6.6 | 1 | C |
| 5 | 373 | 11.7 | 0 | C | 6.8 | -63 | 215 | -2.0 | -0.6 | -5.1 | 4 | C |
| 6 | 376 | 11.9 | 0 | C | 5.2 | -27 | 136 | -1.9 | 2.0 | -1.1 | 4 | C |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 387 | 12.1 | 0 | C | 7.7 | 42 | 118 | -2.7 | 5.1 | 5.1 | 0 | C |
| 10 | 387 | 12.1 | 0 | C | 7.9 | -7 | 112 | -2.3 | 5.6 | -1.0 | 4 | C |
| 11 | 399 | 11.6 | 0 | C | 8.0 | 12 | 98 | -0.9 | 7.0 | 1.1 | 3 | C |
| 12 | 400 | 11.1 | 0 | C | 7.9 | -12 | 77 | 1.7 | 7.3 | -2.0 | 1 | C |
| 13 | 396 | 10.5 | 0 | C | 7.5 | -15 | 113 | -2.7 | 6.3 | -2.1 | 2 | C |
| 14 | 397 | 11.4 | 0 | C | 7.6 | -2 | 118 | -3.5 | 6.6 | -0.3 | 0 | C |
| 15 | 384 | 9.9 | 0 | C | 7.1 | 13 | 181 | -6.3 | -0.1 | 1.4 | 3 | C |
| 16 | 384 | 9.9 | 0 | C | 7.0 | 40 | 135 | -3.4 | 3.0 | 4.4 | 2 | C |
| 17 | 392 | 9.4 | 0 | C | 7.0 | 9 | 132 | -4.2 | 4.5 | 1.8 | 2 | C |
| 18 | 377 | 8.9 | 0 | C | 6.7 | -8 | 120 | -3.0 | 5.4 | 0.3 | 2 | C |
| 19 | 408 | 8.6 | 0 | C | 6.7 | 6 | 125 | -3.6 | 4.8 | 2.0 | 2 | C |
| 20 | 412 | 8.3 | 0 | C | 6.6 | 18 | 81 | 0.9 | 4.6 | 3.5 | 3 | C |
| 21 | 413 | 7.9 | 0 | C | 6.4 | 13 | 131 | -3.8 | 3.7 | 2.8 | 2 | C |
| 22 | 407 | 7.7 | 0 | C | 6.4 | -16 | 138 | -3.9 | 3.8 | -0.1 | 3 | C |
| 23 | 398 | 7.6 | 0 | C | 6.8 | -4 | 106 | -1.3 | 4.3 | 1.3 | 4 | C |
| 24 | 415 | 7.7 | 0 | C | 6.8 | 2 | 105 | -1.3 | 4.5 | 1.9 | 4 | C |

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MAY 29, 1981

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 399 | 7.9 | 0 | C | 6.7 | 3 | 156 | -4.9 | 2.0 | 1.0 | 4 | C |
| 404 | 7.9 | 0 | C | 6.7 | 6 | 115 | -2.1 | 4.2 | 1.9 | 3 | C |
| 410 | 7.6 | 0 | C | 6.5 | 42 | 74 | 1.0 | 2.5 | 4.2 | 3 | C |
| 403 | 7.7 | 0 | C | 6.6 | -22 | 59 | 3.1 | 5.4 | -1.2 | 2 | C |
| 395 | 7.8 | 0 | C | 6.7 | -6 | 107 | -1.7 | 5.5 | 0.3 | 3 | C |
| 392 | 7.8 | 0 | C | 6.6 | -9 | 73 | 1.7 | 5.5 | -0.3 | 2 | C |
| 381 | 7.7 | 0 | C | 6.6 | -8 | 124 | -2.6 | 4.0 | -0.4 | 4 | C |
| 371 | 7.6 | 0 | C | 6.4 | -8 | 136 | -4.1 | 3.9 | -0.7 | 2 | C |
| 374 | 7.5 | 0 | C | 6.5 | 8 | 130 | -3.6 | 4.3 | 0.8 | 3 | C |
| 377 | 7.3 | 0 | C | 6.6 | -24 | 157 | -5.5 | 2.2 | -2.8 | 1 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 362 | 6.8 | 0 | C | | | | | | | | |
| 362 | 6.8 | 0 | C | 6.5 | -18 | 86 | 0.4 | 6.4 | -0.7 | 0 | C |
| 340 | 8.9 | 50 | J | 6.3 | -17 | 109 | -1.6 | 5.1 | -0.2 | 3 | C |
| 342 | 8.3 | 51 | J | 6.2 | -18 | 146 | -4.5 | 3.4 | -0.8 | 2 | C |
| 351 | 7.3 | 42 | J | 6.1 | -25 | 136 | -3.9 | 4.4 | -1.1 | 1 | C |
| 364 | 6.6 | 24 | J | 6.1 | -12 | 98 | -0.8 | 5.6 | 0.9 | 2 | J |
| 340 | 6.4 | 21 | J | 6.2 | -16 | 148 | -4.7 | 3.3 | -0.4 | 2 | J |
| 365 | 7.6 | 23 | J | 5.9 | -9 | 99 | -0.8 | 4.7 | 1.0 | 3 | J |

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MAY 30, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 354 | 6.9 | 21 | J | 5.9 | -2 | 112 | -1.6 | 3.7 | 1.2 | 4 | J |
| 2 | 338 | 6.1 | 16 | J | 6.0 | -26 | 141 | -4.0 | 3.8 | -1.4 | 2 | J |
| 3 | 336 | 6.2 | 19 | J | 6.1 | -11 | 130 | -3.7 | 4.5 | 0.1 | 2 | J |
| 4 | 341 | 6.2 | 21 | J | 6.0 | -14 | 123 | -3.1 | 4.9 | -0.4 | 1 | J |
| 5 | 339 | 6.2 | 17 | J | 6.0 | -14 | 129 | -3.5 | 4.5 | -0.7 | 1 | J |
| 6 | 334 | 6.4 | 18 | J | 5.9 | 1 | 141 | -4.1 | 3.3 | 0.5 | 2 | J |
| 7 | 334 | 6.7 | 19 | J | 6.0 | -14 | 126 | -3.1 | 4.3 | -1.1 | 2 | J |
| 8 | 338 | 7.9 | 0 | C | 6.1 | -15 | 91 | -0.1 | 5.8 | -1.5 | 1 | C |
| 9 | 347 | 7.0 | 22 | J | 5.4 | -3 | 111 | -1.5 | 3.9 | -2.5 | 2 | J |
| 10 | 346 | 7.3 | 25 | J | 5.4 | -16 | 118 | -2.1 | 3.9 | -1.5 | 3 | J |
| 11 | 337 | 7.7 | 25 | J | 5.7 | 1 | 128 | -2.5 | 3.2 | -0.1 | 4 | J |
| 12 | 336 | 7.3 | 20 | J | 5.7 | -40 | 156 | -3.8 | 1.5 | -3.6 | 1 | J |
| 13 | 329 | 7.6 | 28 | J | 5.9 | 1 | 142 | -4.0 | 3.1 | -0.0 | 3 | J |
| 14 | 339 | 7.9 | 18 | J | 5.6 | -13 | 125 | -2.2 | 3.2 | -0.9 | 4 | J |
| 15 | 340 | 8.5 | 25 | J | 5.4 | -32 | 128 | -2.1 | 2.7 | -2.0 | 4 | J |
| 16 | 341 | 8.6 | 23 | J | 5.5 | -60 | 201 | -2.3 | -0.5 | -4.4 | 2 | J |
| 17 | 331 | 8.2 | 26 | J | 5.4 | -18 | 150 | -3.8 | 2.4 | -1.1 | 3 | J |
| 18 | 325 | 8.3 | 32 | J | 5.6 | -3 | 148 | -4.3 | 2.7 | 0.3 | 2 | J |
| 19 | 329 | 8.6 | 26 | J | 5.8 | 47 | 163 | -3.5 | 0.0 | 4.1 | 2 | J |
| 20 | 325 | 8.1 | 23 | J | 6.2 | 0 | 137 | -3.4 | 3.1 | 1.0 | 4 | J |
| 21 | 347 | 7.1 | 20 | J | 6.3 | -58 | 95 | -0.3 | 4.8 | -3.8 | 2 | J |
| 22 | 343 | 7.7 | 20 | J | 6.2 | -32 | 97 | -0.6 | 5.5 | -1.1 | 2 | J |
| 23 | 343 | 7.7 | 21 | J | 6.1 | -17 | 102 | -0.9 | 4.4 | 0.3 | 4 | J |
| 24 | 341 | 7.9 | 25 | J | 6.1 | 0 | 101 | -0.9 | 4.2 | 1.6 | 4 | J |

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MAY 31, 1981

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 350 | 8.1 | 29 | J | 6.3 | -59 | 93 | -0.2 | 4.4 | -3.7 | 2 | J |
| 357 | 8.2 | 28 | J | 6.4 | -10 | 79 | 1.0 | 5.4 | 0.7 | 3 | J |
| 352 | 8.3 | 30 | J | 6.4 | -27 | 81 | 0.8 | 5.4 | -1.2 | 3 | J |
| 357 | 9.0 | 68 | J | 6.1 | -34 | 95 | -0.4 | 4.9 | -2.0 | 3 | J |
| 337 | 9.1 | 26 | J | 6.9 | 56 | 139 | -2.8 | 1.6 | 5.9 | 2 | J |
| 327 | 11.1 | 0 | C | 7.0 | -31 | 109 | -1.5 | 4.6 | -2.3 | 4 | C |
| 330 | 11.2 | 0 | C | 7.0 | -28 | 80 | 0.8 | 4.7 | -2.2 | 4 | C |
| 336 | 8.6 | 33 | J | 6.7 | -50 | 135 | -3.0 | 3.0 | -5.0 | 1 | J |
| 332 | 8.7 | 32 | J | 6.7 | -20 | 120 | -2.9 | 5.0 | -2.3 | 3 | J |
| 326 | 11.3 | 0 | C | 7.1 | -31 | 91 | -0.1 | 5.5 | -3.7 | 2 | C |
| | | | | | | | | | | | |
| | | | | 6.9 | -29 | 111 | -2.1 | 5.2 | -3.5 | 2 | J |
| 340 | 10.2 | 37 | J | 7.3 | -20 | 115 | -2.5 | 5.3 | -2.5 | 3 | J |
| 340 | 10.9 | 41 | J | 7.8 | -2 | 115 | -3.0 | 6.3 | -0.4 | 3 | J |
| 326 | 10.4 | 42 | J | 7.6 | 1 | 146 | -6.0 | 4.0 | 0.2 | 2 | J |
| | | | | | | | | | | | |
| 349 | 11.8 | 37 | J | 9.0 | 11 | 118 | -3.7 | 6.7 | 2.5 | 4 | J |
| 343 | 8.9 | 33 | J | 9.9 | -2 | 121 | -4.9 | 8.0 | 1.3 | 2 | J |
| 375 | 8.2 | 80 | J | 8.9 | -19 | 119 | -3.7 | 7.1 | -0.8 | 4 | J |
| 362 | 7.9 | 78 | J | 9.0 | 0 | 126 | -4.9 | 6.5 | 2.0 | 3 | J |
| 361 | 8.2 | 80 | J | 9.3 | 22 | 130 | -5.2 | 4.8 | 5.1 | 3 | J |
| 368 | 7.3 | 84 | J | 8.6 | -5 | 139 | -5.5 | 4.7 | 1.1 | 4 | J |
| 377 | 7.2 | 93 | J | 9.8 | -3 | 129 | -5.7 | 6.7 | 2.0 | 4 | J |
| 397 | 5.2 | 96 | J | 10.1 | 4 | 115 | -4.2 | 8.2 | 3.7 | 2 | J |

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JUN. 1, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 408 | 5.7 | 103 | J | 9.8 | -16 | 107 | -2.4 | 8.2 | 0.3 | 5 | J |
| 2 | 396 | 4.7 | 80 | J | 9.9 | 1 | 118 | -4.3 | 7.7 | 2.5 | 4 | J |
| 3 | 403 | 3.8 | 84 | J | 10.4 | 4 | 124 | -5.6 | 7.9 | 2.8 | 2 | J |
| 4 | 402 | 3.3 | 68 | J | 9.9 | -6 | 135 | -6.9 | 7.0 | 0.4 | 1 | J |
| 5 | 401 | 6.0 | 0 | C | 10.4 | 11 | 114 | -4.1 | 8.8 | 3.4 | 1 | C |
| 6 | 393 | 4.7 | 103 | J | 8.1 | -11 | 144 | -6.2 | 4.6 | -1.0 | 2 | J |
| 7 | 393 | 4.1 | 79 | J | 8.8 | 3 | 146 | -6.7 | 4.5 | 0.6 | 3 | J |
| 8 | 409 | 4.5 | 115 | J | 8.7 | -4 | 136 | -5.2 | 5.0 | -0.5 | 5 | J |
| 9 | 454 | 5.1 | 151 | J | 10.1 | 29 | 112 | -3.0 | 7.7 | 4.2 | 4 | J |
| 10 | 451 | 5.0 | 176 | J | 10.7 | 23 | 117 | -4.2 | 8.5 | 3.4 | 4 | J |
| 11 | 458 | 5.4 | 179 | J | 10.3 | 13 | 117 | -4.0 | 8.0 | 1.5 | 5 | J |
| 12 | 475 | 4.5 | 123 | J | 10.4 | 17 | 104 | -2.3 | 9.3 | 2.2 | 3 | J |
| 13 | 480 | 4.6 | 150 | J | 10.5 | 20 | 119 | -4.4 | 8.1 | 2.9 | 4 | J |
| 14 | 454 | 4.3 | 151 | J | 10.5 | 11 | 114 | -4.1 | 9.4 | 1.7 | 0 | J |
| 15 | 448 | 4.1 | 144 | J | 10.8 | 8 | 116 | -4.6 | 9.4 | 1.6 | 2 | J |
| 16 | 440 | 3.3 | 73 | J | 10.6 | -8 | 124 | -5.6 | 8.5 | -0.8 | 3 | J |
| 17 | 477 | 3.2 | 104 | J | 10.0 | -22 | 105 | -2.3 | 8.9 | -2.4 | 3 | J |
| 18 | 470 | 3.6 | 126 | J | 10.0 | -4 | 102 | -2.0 | 9.4 | 1.2 | 2 | J |
| 19 | 440 | 2.9 | 87 | J | 9.8 | -7 | 118 | -3.9 | 7.4 | 0.8 | 5 | J |
| 20 | 445 | 5.1 | 0 | C | 9.8 | -9 | 138 | -5.9 | 5.4 | 0.4 | 6 | J |
| 21 | 435 | 3.6 | 113 | J | 10.3 | -3 | 119 | -4.5 | 7.8 | 2.2 | 4 | J |
| 22 | 430 | 3.4 | 69 | J | 10.3 | 2 | 105 | -2.6 | 8.9 | 3.6 | 3 | J |
| 23 | 442 | 3.6 | 85 | J | 10.3 | -10 | 100 | -1.7 | 9.5 | 1.7 | 3 | J |
| 24 | 406 | 2.9 | 55 | J | 10.0 | -17 | 125 | -5.3 | 8.0 | -0.1 | 3 | J |

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JUN. 2, 1981

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 448 | 3.9 | 80 | J | 10.1 | -3 | 98 | -1.4 | 9.4 | 2.6 | 2 | J |
| 418 | 4.0 | 61 | J | 10.0 | -1 | 114 | -3.8 | 8.3 | 2.3 | 3 | J |
| 395 | 4.1 | 66 | J | 10.0 | 2 | 114 | -4.0 | 8.6 | 2.5 | 2 | J |
| 385 | 3.9 | 63 | J | 10.1 | -12 | 121 | -4.9 | 8.4 | -0.4 | 3 | J |
| 374 | 3.9 | 51 | J | 10.0 | 0 | 139 | -7.3 | 6.3 | 0.9 | 2 | J |
| 387 | 4.2 | 67 | J | 10.0 | -8 | 132 | -6.3 | 7.1 | -0.7 | 3 | J |
| 384 | 4.2 | 48 | J | 9.9 | -9 | 123 | -5.3 | 8.2 | -1.2 | 2 | J |
| 411 | 4.4 | 64 | J | 10.0 | -12 | 115 | -3.8 | 8.2 | -2.0 | 4 | J |
| 415 | 4.1 | 69 | J | 9.8 | -24 | 108 | -2.7 | 8.0 | -4.2 | 3 | J |
| 336 | 3.8 | 49 | J | 9.7 | -20 | 132 | -5.7 | 6.1 | -3.5 | 3 | J |
| 447 | 4.6 | 78 | J | 9.7 | -12 | 87 | 0.5 | 8.8 | -2.6 | 3 | J |
| 416 | 4.1 | 59 | J | 9.5 | -17 | 114 | -3.3 | 7.2 | -3.1 | 4 | J |
| 446 | 3.8 | 59 | J | 9.4 | -17 | 98 | -1.1 | 8.0 | -3.0 | 4 | J |
| 463 | 4.3 | 75 | J | 9.4 | -7 | 82 | 1.2 | 8.7 | -1.4 | 3 | J |
| 445 | 3.8 | 55 | J | 9.4 | -18 | 92 | -0.3 | 8.0 | -2.5 | 4 | J |
| 415 | 4.0 | 74 | J | 9.4 | -4 | 109 | -2.9 | 8.5 | -0.1 | 3 | J |
| 395 | 5.0 | 0 | C | 9.6 | -17 | 104 | -2.1 | 8.6 | -1.6 | 3 | C |
| 401 | 3.8 | 44 | J | 9.3 | -13 | 98 | -1.2 | 8.4 | -0.3 | 3 | C |
| 419 | 5.3 | 75 | J | 9.3 | 10 | 113 | -3.4 | 7.6 | 3.5 | 2 | C |
| 392 | 5.5 | 54 | J | 9.3 | 22 | 132 | -5.5 | 4.9 | 4.8 | 3 | C |
| 385 | 6.0 | 52 | J | 9.5 | 30 | 158 | -7.4 | 1.4 | 5.3 | 2 | C |
| 378 | 7.1 | 49 | J | 10.0 | 34 | 159 | -7.6 | 0.9 | 6.1 | 2 | C |
| 398 | 8.6 | 54 | J | 10.2 | -18 | 108 | -2.9 | 9.7 | 0.1 | 0 | C |
| 422 | 10.3 | 69 | J | 10.3 | -4 | 115 | -4.0 | 8.4 | 2.2 | 3 | C |

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JUN. 3, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 7.9 | 48 | J | 10.1 | 18 | 111 | -3.2 | 7.0 | 5.3 | 3 | C |
| 2 | 373 | 12.7 | 0 | C | 10.0 | 7 | 118 | -3.7 | 6.3 | 2.8 | 6 | C |
| 3 | 384 | 11.2 | 53 | J | 9.8 | 38 | 145 | -5.8 | 2.6 | 6.2 | 3 | C |
| 4 | 378 | 10.7 | 45 | J | 10.9 | 16 | 130 | -6.0 | 6.6 | 3.9 | 4 | C |
| 5 | 372 | 11.5 | 47 | J | 11.3 | 0 | 117 | -4.7 | 9.1 | 1.3 | 4 | C |
| 6 | 388 | 9.1 | 29 | J | 11.7 | 30 | 152 | -8.4 | 4.0 | 5.8 | 3 | C |
| 7 | 412 | 9.1 | 33 | J | | | | | | | | |
| 8 | 382 | 9.1 | 0 | C | | | | | | | | |
| 9 | 427 | 6.2 | 91 | J | 12.2 | 12 | 123 | -5.5 | 8.6 | 1.7 | 6 | C |
| 10 | 434 | 6.7 | 125 | J | 11.0 | 41 | 145 | -6.7 | 5.2 | 6.8 | 2 | C |
| 11 | 443 | 8.8 | 124 | J | 10.2 | 32 | 138 | -6.3 | 6.0 | 4.7 | 2 | C |
| 12 | 435 | 10.5 | 160 | J | 8.8 | 31 | 136 | -4.8 | 5.0 | 3.6 | 3 | C |
| 13 | 427 | 10.2 | 151 | J | 8.4 | 0 | 129 | -4.7 | 5.9 | -0.5 | 3 | C |
| 14 | 435 | 10.5 | 150 | J | | | | | | | | |
| 15 | 440 | 11.5 | 148 | J | 7.3 | -25 | 182 | -5.1 | -0.2 | -2.3 | 4 | C |
| 16 | 431 | 12.1 | 112 | J | 7.4 | -18 | 168 | -3.9 | 0.9 | -1.2 | 6 | C |
| 17 | 427 | 11.8 | 122 | J | 7.0 | -61 | 210 | -2.4 | -0.8 | -5.1 | 3 | C |
| 18 | 417 | 9.6 | 74 | J | 7.0 | -25 | 169 | -4.8 | 1.4 | -2.1 | 4 | C |
| 19 | 432 | 9.1 | 90 | J | 7.0 | -35 | 152 | -4.4 | 3.1 | -2.9 | 2 | C |
| 20 | 440 | 8.6 | 92 | J | 7.2 | -25 | 181 | -4.8 | 0.5 | -2.2 | 4 | C |
| 21 | 435 | 8.6 | 85 | J | 7.0 | -26 | 156 | -4.7 | 2.8 | -1.7 | 3 | C |
| 22 | 431 | 7.4 | 58 | J | 7.1 | -15 | 138 | -4.6 | 4.4 | -0.2 | 2 | C |
| 23 | 420 | 7.5 | 40 | J | | | | | | | | |
| 24 | 419 | 6.5 | 38 | J | | | | | | | | |

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JUN. 4, 1981

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 421 | 6.7 | 63 | J | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 423 | 5.9 | 42 | J | | | | | | | | |
| 445 | 7.3 | 83 | J | | | | | | | | |
| 422 | 6.2 | 35 | J | 6.5 | 7 | 140 | -4.2 | 3.5 | 0.9 | 3 | C |
| 425 | 6.5 | 46 | J | 6.4 | 10 | 122 | -3.1 | 4.9 | 1.2 | 2 | C |
| 437 | 8.3 | 78 | J | 5.4 | -38 | 164 | -2.3 | 0.6 | -1.9 | 4 | C |
| 440 | 7.5 | 69 | J | 5.0 | -2 | 167 | -3.4 | 0.8 | -0.2 | 3 | C |
| 433 | 7.0 | 58 | J | 5.8 | 42 | 131 | -2.7 | 3.4 | 3.5 | 1 | C |
| 441 | 7.3 | 52 | J | 6.0 | 61 | 123 | -1.5 | 2.7 | 4.7 | 2 | C |
| 448 | 7.4 | 60 | J | | | | | | | | |
| 427 | 7.6 | 52 | J | | | | | | | | |
| 420 | 8.1 | 0 | C | 5.3 | 61 | 170 | -2.2 | 0.6 | 4.1 | 2 | C |
| 411 | 7.3 | 0 | C | 4.4 | -3 | 138 | -2.1 | 1.9 | -0.2 | 3 | C |
| 423 | 6.3 | 50 | J | 4.1 | 1 | 97 | -0.3 | 2.6 | 0.2 | 3 | C |
| 407 | 7.2 | 0 | C | 4.2 | 44 | 118 | -1.0 | 1.6 | 2.2 | 3 | C |
| 371 | 6.4 | 81 | J | 4.4 | 20 | 115 | -1.4 | 2.7 | 1.7 | 3 | C |
| 396 | 6.3 | 0 | C | 4.3 | 23 | 85 | 0.2 | 2.7 | 2.0 | 3 | C |
| 390 | 6.2 | 0 | C | 4.9 | 20 | 64 | 1.6 | 2.8 | 2.1 | 3 | C |
| 389 | 6.2 | 0 | C | 4.1 | -24 | 90 | -0.0 | 3.3 | -0.3 | 2 | C |
| 392 | 6.2 | 0 | C | 4.1 | 35 | 61 | 1.5 | 1.8 | 2.9 | 1 | C |
| 360 | 5.3 | 48 | J | | | | | | | | |
| 395 | 8.4 | 58 | J | | | | | | | | |

# 06/05/81 – 06/12/81

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HR      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000   SC MAGN LAT LON                      SC

                       JUN.  5, 1981                       156
  1
  2
  3
  4     386  7.4   28  J
  5     386  7.4   32  J
  6     377  8.2   25  J
  7     372  8.4   47  J   3.8  -6  44   2.6   2.5  -0.2  1  C
  8     360  9.4    0  C   3.0  12  81   0.4   2.4   0.6  1  C
  9     359  9.6    0  C   3.2 -30 112  -0.8   1.9  -1.2  2  C
 10     358  9.8    0  C   3.1 -11 155  -2.2   1.0  -0.6  2  C
 11     356  9.6    0  C   2.8 -33 103  -0.4   1.5  -1.2  2  C
 12     357  9.4    0  C   3.4  -1  86   0.1   2.1  -0.2  2  C
 13     345 10.1    0  C
 14     345 10.1    0  C   3.1 -37  90   0.0   1.5  -1.3  2  C
 15     345 10.5    0  C   3.0  42 131  -1.0   1.2   1.4  2  C
 16     342 11.3    0  C   3.2  47 109  -0.6   1.6   2.0  2  C
 17     338 11.0    0  C   3.9   4  47   2.6   2.8   0.5  0  C
 18     338 11.0    0  C   3.7 -22  45   1.8   2.0  -0.7  2  C
 19     333 11.3    0  C   3.5  16 142  -2.4   1.6   1.2  1  C
 20     331 11.4    0  C   3.6 -14 105  -0.7   2.8   0.0  2  C
 21     333 11.0    0  C   3.8 -29  36   2.6   2.3  -1.1  1  C
 22     328 12.2    0  C   4.1 -51 112  -0.6   2.1  -1.4  3  C
 23     329 11.7    0  C   4.7  22  19   4.0   0.8   2.1  1  C
 24     327 11.3    0  C   4.8 -13 358   4.5   0.2  -1.0  1  C
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VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
        1000   SC MAGN LAT LON                      SC

               JUN.  6, 1981                       157
323 10.7    0  C    4.4 -45 350   2.7   0.3  -2.8  2  C
323 10.9    0  C    3.6 -30 108  -0.6   2.2  -0.6  3  C
317 11.1    0  C    3.7 -37  67   0.7   1.9  -1.0  3  C
312 10.9    0  C    4.1 -25  32   3.0   2.1  -1.3  1  C
311 11.0    0  C    3.9 -41  19   2.6   1.1  -2.3  1  C
313 10.7    0  C    3.0 -39 202  -1.9  -0.7  -1.7  1  C
311 11.2    0  C    2.8 -38 139  -1.2   1.1  -1.2  2  C
310 11.5    0  C    2.7 -39 189  -1.1  -0.2  -0.8  2  C
311 11.6    0  C    4.2 -35 147  -2.8   1.6  -2.5  1  C
315 12.7    0  C    4.2 -25 165  -3.6   0.8  -1.8  0  C
325 22.0    0  C    6.0   3 136  -4.1   4.0  -0.1  2  C
341 32.7    0  C   10.0  12 107  -2.6   9.0   1.0  3  C
338 33.9    0  C   11.4   3 118  -3.5   6.7  -0.2  8  C
341 29.4    0  C   10.8 -24 254  -1.9  -6.5  -2.6  8  C
356 20.4    0  C   10.7   6 285   2.4  -9.0   1.2  5  C
365 20.0    0  C    9.4  -4 260  -1.6  -9.1  -0.9  1  C
357 19.1    0  C    8.7  -2 264  -0.9  -8.5  -1.2  1  C
358 19.5    0  C    8.9  10 264  -0.9  -8.7   0.2  2  C
365 20.6    0  C    8.9   1 245  -3.6  -7.6  -1.5  2  C
364 19.6    0  C    8.7 -18 250  -2.5  -6.1  -4.1  4  C
357 15.4    0  C   10.1  24 287   2.7  -9.3   1.3  2  C
349 12.3    0  C   10.4  32 290   2.9  -9.4   2.7  1  C
350 12.3    0  C    9.7  23 273   0.5  -9.3   0.7  2  C
349 13.5    0  C    9.7  23 270  -0.0  -9.3   0.8  2  C
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                       JUN.  7, 1981                       158
  1     352 14.3    0  C   9.6  33 274   0.5  -8.5   2.6  3  C
  2     356 16.9    0  C   9.7  41 336   5.6  -3.7   4.5  5  C
  3     382 17.5    0  C   9.1  -4  22   7.9   3.2   0.0  3  C
  4     418 17.9    0  C   6.7 -52  49   1.6   2.3  -2.7  6  C
  5     422 15.6    0  C  11.0 -50 164  -6.7   2.8  -8.0  2  C
  6     416 11.4    0  C  12.4 -55 169  -7.0   2.0 -10.0  0  C
  7     423 15.2    0  C  12.0 -50 188  -7.4  -0.9  -8.8  3  C
  8     407 19.0    0  C   9.8 -35 209  -4.8  -2.8  -3.8  7  C
  9     399 23.4    0  C  10.5  62 286   1.1  -3.0   7.2  5  C
 10     450 32.9    0  C  20.8  61 339   9.1  -1.7  17.7  5  C
 11     469 36.4    0  C  20.0  51 319   9.3  -6.3  16.2  3  C
 12     453 50.9    0  C  21.0  13 292   7.0 -16.5   6.3  8  C
 13     453 50.9    0  C  23.9  35 356  15.4  -0.0  10.8 14  C
 14     410 38.8    0  C  23.7  11  75   5.6  21.6   2.6  7  C
 15     412 60.8    0  C  26.7  26  92  -0.9  23.5  10.8  6  C
 16     397 70.5    0  C  29.8  12  76   7.0  27.9   7.1  2  C
 17     356 86.9    0  C  25.4   7  72   7.3  21.9   4.9 11  C
 18     309113.0    0  C  12.3   1 315   8.1  -8.0  -1.1  4  C
 19     388 72.6    0  C  28.0  43 202 -18.2 -10.9  16.3  6  C
 20     466 36.8    0  C  24.9  -8 320  14.5 -11.1  -5.7 14  C
 21     452 63.4    0  C  21.4 -43 282   1.9  -6.0 -10.5 16  C
 22     500 48.2    0  C  12.4  14  97  -1.3   8.7   5.4  7  C
 23     490 19.2    0  C   9.2 -17 231  -3.8  -3.9  -3.1  7  C
 24     473 16.4    0  C   5.9 -58  28   1.5   1.6  -2.3  5  C
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               JUN.  8, 1981                       159
482 13.2    0  C   10.3 -73 162  -1.6   1.9  -5.0  8  C
493  9.9    0  C   13.3  -1 136  -9.4   8.8   2.0  2  C
477  8.6    0  C   13.4  12 135  -8.5   7.7   4.1  5  C
463 10.9    0  C   14.0  42 167  -9.1   0.8   8.5  6  C
449 11.5    0  C   15.1   7 136  -9.8   9.3   2.7  6  C
443 10.8    0  C   11.0  23 147  -7.6   4.8   4.1  4  C
475  6.4    0  C    5.9  19 196  -4.8  -1.4   1.7  2  C
475  6.4    0  C    5.6 -25 202  -4.5  -1.9  -2.2  1  C
471  6.5    0  C    5.6 -13 185  -5.3  -0.6  -1.2  1  C
460  6.2    0  C    5.6   6 187  -5.5  -0.6   0.7  1  C
461  4.7    0  C    5.6  21 180  -5.2   0.2   2.0  1  C
466  4.4    0  C    5.7  21 177  -5.3   0.6   2.0  0  C
459  3.5    0  C    5.7  33 167  -4.6   1.4   2.9  1  C
474  3.1    0  C    5.7  41 166  -4.1   1.3   3.6  1  C
487  3.4    0  C    5.2  44 169  -3.6   0.8   3.5  1  C
456  4.4    0  C    4.7 -16 185  -3.6  -0.3  -1.0  3  C
456  4.4    0  C    4.6 -13 184  -4.3  -0.2  -1.1  1  C
424  3.8    0  C    5.1   5 182  -5.0  -0.2   0.4  1  C
437  3.9    0  C    5.1   2 197  -4.7  -1.4  -0.2  1  C
447  4.3    0  C    4.8  29 239  -2.1  -3.8   1.3  1  C
458  4.1    0  C    4.6  22 171  -4.1   0.2   1.8  1  C
462  3.2    0  C    4.7  13 169  -4.4   0.5   1.2  1  C
462  3.1    0  C    4.3  35 204  -2.3  -1.5   1.3  3  C
473  3.6    0  C    4.3   8 226  -2.2  -2.3  -0.3  3  C
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                       JUN.  9, 1981                       160
  1     468  3.8    0  C   4.5  28 250  -1.2  -3.9   1.0  1  C
  2     461  3.6    0  C   4.6  16 169  -4.0   0.5   1.3  1  C
  3     460  3.4    0  C   4.7   3 156  -4.0   1.7   0.6  1  C
  4     464  3.5    0  C   4.7   6 156  -3.4   1.5   0.6  3  C
  5     462  3.4    0  C   4.8   8 141  -3.2   2.5   0.8  2  C
  6     466  3.5    0  C   4.7   3 135  -3.0   3.0   0.3  1  C
  7     463  3.4    0  C   4.8  24 134  -2.6   2.7   1.6  2  C
  8     452  3.2    0  C   5.0  -8 141  -3.8   3.0  -0.8  1  C
  9     431  3.6    0  C   5.1   5 144  -4.0   3.0   0.2  1  C
 10     426  3.9    0  C   5.0  24 161  -3.9   1.5   1.7  2  C
 11     433  4.0    0  C   5.0  24 157  -4.1   2.0   1.7  1  C
 12     424  4.1    0  C   5.0  30 178  -4.1   0.5   2.3  1  C
 13     417  3.7    0  C   5.2  15 150  -4.1   2.5   1.0  2  C
 14     418  3.4    0  C   5.3   1 142  -4.2   3.2  -0.2  0  C
 15     417  3.6    0  C   5.0   3 147  -4.0   2.7   0.2  1  C
 16     406  4.2    0  C   4.7  13 149  -3.7   2.3   1.1  1  C
 17     404  4.6    0  C   4.6  53 163  -2.3   0.4   3.1  2  C
 18     407  4.8    0  C   4.5  47 152  -2.4   0.9   3.1  2  C
 19     398  5.1    0  C   4.8  62 183  -2.2  -0.9   3.9  1  C
 20     390  5.2    0  C   5.0  51 197  -2.9  -1.7   3.4  1  C
 21     388  5.3    0  C   5.2  53 189  -3.0  -1.6   3.8  1  C
 22     383  5.6    0  C   5.5  59 175  -2.7  -1.1   4.4  1  C
 23     378  5.8    0  C   5.5  33 153  -3.8   1.0   3.2  2  C
 24     381  5.9    0  C   5.4   3 121  -2.4   3.8   1.4  2  C
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               JUN. 10, 1981                       161
382  5.8    0  C    5.4  27 142  -3.5   2.1   2.9  2  C
381  5.8    0  C    5.5  26 152  -3.7   1.4   2.5  2  C
388  5.9    0  C    5.6  46 141  -2.7   1.5   3.9  2  C
393  6.0    0  C    5.5  35 126  -1.6   1.9   2.3  4  C
390  6.2    0  C    5.0  57 130  -1.3   1.3   3.4  3  C
387  6.4    0  C    4.9  45 220  -2.5  -2.2   3.2  1  C
385  6.4    0  C    5.6  19 109  -1.7   4.9   1.7  1  C
381  6.6    0  C
381  6.6    0  C    5.1   4 138  -3.0   2.7   0.0  3  C
373  5.9    0  C    4.5   3 162  -3.7   1.2   0.0  2  C
377  6.1    0  C    5.0   9 118  -2.1   4.0   0.2  2  C
380  6.1    0  C    5.1  19  98  -0.7   4.9   1.0  1  C
372  6.3    0  C    5.2  11 118  -2.1   4.1   0.4  2  C
375  6.2    0  C    5.2  10 111  -1.8   4.5   0.4  2  C
374  6.3    0  C    5.3  -1 110  -1.6   4.5  -0.3  2  C
369  6.1    0  C    5.4  -3 106  -1.4   5.1  -0.3  1  C
372  6.4    0  C    5.4   0 101  -1.0   4.9   0.3  2  C
372  6.8    0  C    4.5  -2 140  -2.6   2.2   0.1  3  C
369  7.4    0  C    4.6  37 135  -2.3   1.8   2.9  2  C
366  7.6    0  C    4.8  -2 139  -3.1   2.6   0.5  2  C
369  7.8    0  C    4.7  30 123  -1.5   1.9   2.2  3  C
373  7.7    0  C    5.3  36  98  -0.5   2.9   3.7  2  C
369  8.2    0  C    5.6  23 130  -2.4   2.3   2.4  3  C
360  8.4    0  C    6.1   6 119  -2.6   4.4   1.9  2  C
```

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                       JUN. 11, 1981                       162
  1     360  8.5    0  C   6.2 -23 169  -5.0   1.6  -1.9  2  C
  2     356  7.5    0  C   6.1 -13 190  -5.8  -0.7  -1.6  1  C
  3     360  7.0    0  C   6.1  -9 188  -5.9  -0.6  -1.1  1  C
  4     359  7.2    0  C   5.7 -11 171  -5.4   0.9  -1.0  1  C
  5     362  7.3    0  C   5.6  -2  96  -0.5   4.9   0.2  2  C
  6     367  7.6    0  C   5.9  -2  76   1.4   5.6  -0.0  1  C
  7     367  7.9    0  C   5.8   9  82   0.8   5.6   0.8  1  C
  8     385  5.6   80  L   5.7   8  75   1.5   5.3   0.4  1  C
  9     388  7.5   38  J   5.7   7  62   2.6   4.9   0.2  1  J
 10     391  7.7   39  J   5.7  17  49   3.6   4.3   1.1  1  J
 11     387  7.9   40  J   5.8  15  52   3.4   4.5   0.8  1  J
 12     376  8.3   54  J   6.3  -1  87   0.3   4.7  -0.8  4  J
 13     383  8.0   55  J   5.5   8  80   0.6   3.5   0.0  4  J
 14     377  8.0   50  J   5.8   8  97  -0.6   4.9   0.2  3  J
 15     363  7.0   57  J   7.0 -16 148  -5.5   3.4  -2.1  1  J
 16     368  7.3   66  J   6.5 -13 141  -4.5   3.7  -1.3  2  J
 17     363  8.4    0  C   6.1 -13 165  -5.3   1.5  -1.2  2  J
 18     367  6.6   48  J   6.1  -3 190  -5.7  -1.0  -0.4  2  J
 19     374  6.6   40  J   6.1 -13 197  -5.5  -1.4  -1.6  1  J
 20     377  6.7   31  J   6.4 -21 194  -5.7  -0.9  -2.5  1  J
 21     389  7.3   53  J   5.9 -37 141  -3.4   3.5  -2.4  2  J
 22     378  7.3   46  J   6.2 -31 130  -3.1   4.4  -1.8  3  J
 23     377  6.9   42  J   7.7  14  96  -0.7   6.1   3.6  3  J
 24     379  7.0   39  J   7.1  30  58   3.2   3.9   4.7  2  J
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               JUN. 12, 1981                       163
373  6.6   44  J    6.1 -32 155  -4.4   2.7  -2.4  2  J
370  6.3   52  J    6.1 -18 147  -4.8   3.4  -1.1  1  J
369  7.7    0  C    6.2 -13 145  -4.8   3.6  -0.8  1  C
370  7.6    0  C    6.2  -9 156  -5.5   2.5  -0.6  1  C
363  7.6    0  C    6.0  -8 165  -5.7   1.6  -0.7  0  C
355  7.7    0  C    5.8  -1 128  -3.3   4.2  -0.0  2  C
378  7.0   23  J    6.1   4  72   1.9   5.7   0.3  1  J
382  6.8   26  J    6.1   6  68   2.2   5.6   0.2  1  J
372  6.7   30  J    5.9   3  95  -0.5   5.5  -0.3  2  J
397  6.1   35  J    5.8  12  57   2.9   4.5   0.5  2  J
395  6.1   36  J    5.9   8  64   2.4   5.0   0.0  2  J
372  5.8   29  J    6.1   0 111  -2.1   5.4  -0.8  2  J
370  6.1   28  J    6.3 -11 110  -2.0   5.4  -1.9  1  J
366  5.9   39  J    6.2 -11 118  -2.8   5.1  -1.7  1  J
363  5.8   36  J    6.0  -3 118  -2.7   5.0  -0.6  2  J
356  5.8   46  J    5.9  -1 129  -3.4   4.2  -0.1  2  J
354  6.3   45  J    6.4  -3 123  -3.3   5.1  -0.0  2  J
352  6.7   39  J    6.5 -12 124  -3.4   5.2  -0.7  1  J
357  7.0   35  J    6.1  -4 109  -1.9   5.5   0.5  2  J
353  7.5   33  J    5.8  25  71   1.6   4.0   3.2  2  J
357  8.0   33  J    4.9  17  96  -0.3   2.8   1.7  4  J
352  8.3   31  J    4.8  12 103  -0.3   1.1   0.6  5  J
345  8.1   29  J    5.5 -21 135  -1.8   2.0  -0.4  5  J
361  8.2   41  J    5.3  27  28   3.9   1.4   2.7  2  J
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JUN. 13, 1981 164

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 352 | 8.4 | 47 | J | 5.0 | 31 | 68 | 1.4 | 2.8 | 3.0 | 2 | J |
| 2 | 349 | 7.4 | 36 | J | 4.8 | 18 | 90 | 0.0 | 3.6 | 2.1 | 2 | J |
| 3 | 362 | 7.7 | 36 | J | 5.3 | 26 | 88 | 0.1 | 3.7 | 2.7 | 2 | J |
| 4 | 368 | 7.3 | 33 | J | 5.1 | 0 | 72 | 1.5 | 4.6 | 0.6 | 1 | J |
| 5 | 338 | 9.0 | 0 | C | 5.3 | 5 | 76 | 1.2 | 4.8 | 0.8 | 1 | C |
| 6 | 339 | 9.0 | 0 | C | 5.1 | -11 | 70 | 1.5 | 4.1 | -0.8 | 2 | C |
| 7 | 328 | 8.8 | 0 | C | 5.4 | -12 | 136 | -3.1 | 3.0 | -1.1 | 3 | C |
| 8 | 319 | 4.5 | 119 | L | 5.2 | 17 | 131 | -3.1 | 3.6 | 1.1 | 2 | J |
| 9 | 330 | 7.1 | 49 | J | 5.1 | -20 | 153 | -3.9 | 1.8 | -1.8 | 2 | J |
| 10 | 341 | 6.7 | 32 | J | 5.5 | -37 | 136 | -3.0 | 2.5 | -3.6 | 1 | J |
| 11 | 342 | 6.7 | 32 | J | 5.5 | -23 | 115 | -2.0 | 3.9 | -2.6 | 2 | J |
| 12 | 326 | 6.7 | 47 | J | 5.4 | -34 | 143 | -3.5 | 2.1 | -3.3 | 1 | J |
| 13 | 345 | 7.1 | 40 | J | 5.5 | 5 | 85 | 0.3 | 3.7 | -0.2 | 4 | J |
| 14 | 336 | 6.8 | 24 | J | 5.5 | 0 | 107 | -1.6 | 5.1 | -0.6 | 1 | J |
| 15 | 327 | 7.8 | 0 | C | 5.6 | -16 | 156 | -4.2 | 1.8 | -1.4 | 3 | C |
| 16 | 326 | 8.0 | 0 | C | 5.5 | -4 | 165 | -5.1 | 1.4 | -0.4 | 1 | C |
| 17 | 322 | 8.2 | 0 | C | 5.6 | 1 | 160 | -5.0 | 1.8 | 0.1 | 1 | C |
| 18 | 314 | 6.8 | 38 | J | 5.4 | 16 | 162 | -4.5 | 1.3 | 1.5 | 2 | J |
| 19 | 315 | 6.2 | 31 | J | 5.3 | 7 | 176 | -5.0 | 0.2 | 0.7 | 1 | J |
| 20 | 313 | 5.5 | 27 | J | 4.6 | 3 | 168 | -4.1 | 0.8 | 0.4 | 2 | J |
| 21 | 313 | 6.5 | 28 | J | 5.0 | 6 | 169 | -4.7 | 0.8 | 0.7 | 1 | J |
| 22 | 307 | 6.8 | 24 | J | 4.9 | 9 | 154 | -4.1 | 1.7 | 1.2 | 2 | J |
| 23 | 309 | 7.0 | 28 | J | 5.1 | 9 | 137 | -3.6 | 3.0 | 1.7 | 1 | J |
| 24 | 310 | 6.7 | 25 | J | 5.2 | 15 | 132 | -3.3 | 3.2 | 2.2 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 310 | 7.4 | 45 | J | 7.2 | 3 | 310 | 4.6 | -5.4 | -0.9 | 1 | J |
| 2 | 318 | 7.2 | 39 | J | 7.1 | -9 | 312 | 3.5 | -3.7 | -1.6 | 5 | J |
| 3 | 323 | 11.7 | 0 | C | 7.3 | 33 | 161 | -5.8 | 1.4 | 4.2 | 0 | J |
| 4 | 323 | 15.2 | 0 | C | 10.6 | 34 | 199 | -6.6 | -2.8 | 4.5 | 7 | C |
| 5 | 336 | 16.7 | 0 | C | 8.2 | -14 | 242 | -3.3 | -6.3 | -2.1 | 3 | C |
| 6 | 323 | 15.5 | 0 | C | 8.2 | -31 | 304 | 3.9 | -5.8 | -4.2 | 1 | J |
| 7 | 317 | 16.4 | 0 | C | 7.7 | -22 | 314 | 4.9 | -5.2 | -2.6 | 2 | J |
| 8 | 329 | 14.2 | 53 | J | 8.1 | -1 | 326 | 6.0 | -4.1 | 0.3 | 4 | J |
| 9 | 331 | 28.8 | 29 | J | 5.6 | -26 | 281 | 0.6 | -3.4 | -1.2 | 4 | J |
| 10 | 328 | 24.8 | 27 | J | 7.8 | -28 | 288 | 2.1 | -6.9 | -2.5 | 2 | J |
| 11 | 326 | 23.2 | 33 | J | 9.8 | -23 | 295 | 3.8 | -8.6 | -2.3 | 2 | J |
| 12 | 322 | 23.2 | 35 | J | 10.0 | -16 | 301 | 4.7 | -8.2 | -1.2 | 3 | J |
| 13 | 343 | 11.3 | 102 | J | 9.9 | -4 | 83 | 1.1 | 8.8 | -2.0 | 4 | J |
| 14 | 346 | 13.1 | 183 | J | 8.2 | 55 | 238 | -2.5 | -3.1 | 7.2 | 1 | J |
| 15 | 332 | 16.8 | 0 | C | 8.4 | 25 | 96 | -0.6 | 6.0 | 2.3 | 5 | C |
| 16 | 350 | 16.7 | 0 | C | 7.4 | 28 | 132 | -3.7 | 4.2 | 2.8 | 4 | C |
| 17 | 390 | 14.5 | 129 | J | 5.7 | 32 | 275 | 0.4 | -4.7 | 2.8 | 2 | J |
| 18 | 389 | 14.4 | 121 | J | 6.3 | 37 | 287 | 1.4 | -4.8 | 3.1 | 2 | J |
| 19 | 394 | 12.7 | 113 | J | 6.8 | -59 | 11 | 3.3 | 1.5 | -5.5 | 1 | J |
| 20 | 394 | 10.3 | 97 | J | 5.9 | -4 | 346 | 5.6 | -1.3 | -0.7 | 1 | J |
| 21 | 400 | 10.0 | 103 | J | 5.8 | 3 | 336 | 5.2 | -2.3 | -0.2 | 1 | J |
| 22 | 398 | 9.7 | 85 | J | 6.5 | 11 | 342 | 6.0 | -2.2 | 0.7 | 1 | J |
| 23 | 404 | 10.4 | 101 | J | 6.7 | -22 | 333 | 5.4 | -2.0 | -3.1 | 2 | J |
| 24 | 403 | 10.1 | 90 | J | 6.7 | -58 | 315 | 2.1 | -0.9 | -5.2 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 423 | 9.2 | 0 | C | 10.0 | -33 | 295 | 2.9 | -5.1 | -5.7 | 5 | C |
| 2 | 430 | 10.2 | 0 | C | 9.9 | 10 | 304 | 4.8 | -7.3 | 0.2 | 3 | C |
| 3 | 434 | 9.9 | 0 | C | 10.4 | 2 | 309 | 6.3 | -7.7 | -0.8 | 2 | C |
| 4 | 437 | 8.6 | 0 | C | 8.8 | -4 | 301 | 3.5 | -5.9 | -1.0 | 5 | C |
| 5 | 442 | 7.5 | 0 | C | 7.4 | 4 | 311 | 3.9 | -4.6 | 0.3 | 4 | C |
| 6 | 445 | 7.0 | 0 | C | 6.7 | -17 | 6 | 6.3 | 0.7 | -1.9 | 1 | C |
| 7 | | | | | | | | | | | | |
| 8 | 452 | 5.1 | 0 | C | 7.2 | 4 | 294 | 2.9 | -6.5 | 1.2 | 0 | C |
| 9 | 452 | 5.1 | 0 | C | 7.7 | 1 | 295 | 3.2 | -6.8 | 1.1 | 1 | C |
| 10 | 438 | 5.7 | 0 | C | 7.7 | 0 | 313 | 4.4 | -4.7 | 0.9 | 4 | C |
| 11 | 438 | 5.4 | 0 | C | 7.9 | -6 | 292 | 2.9 | -7.2 | 0.6 | 1 | C |
| 12 | 437 | 5.1 | 0 | C | 8.4 | 76 | 280 | 0.3 | -0.5 | 8.3 | 0 | C |
| 13 | 468 | 4.5 | 0 | C | 8.4 | 70 | 274 | 0.2 | -1.4 | 8.2 | 1 | C |
| 14 | 468 | 4.4 | 0 | C | 8.0 | 71 | 281 | 0.5 | -1.4 | 7.8 | 1 | C |
| 15 | 461 | 5.6 | 0 | C | 7.9 | 81 | 332 | 1.0 | 0.2 | 7.7 | 1 | C |
| 16 | 456 | 5.0 | 0 | C | 7.9 | 73 | 310 | 1.2 | -1.6 | 7.5 | 1 | C |
| 17 | 459 | 4.5 | 0 | C | 7.9 | 71 | 228 | -1.6 | -2.0 | 7.2 | 2 | C |
| 18 | 466 | 4.7 | 0 | C | 7.8 | 64 | 215 | -2.8 | -2.5 | 6.8 | 1 | C |
| 19 | 452 | 5.5 | 0 | C | 7.8 | 61 | 220 | -2.8 | -3.3 | 6.3 | 1 | C |
| 20 | 458 | 6.1 | 0 | C | 7.7 | 51 | 247 | -1.8 | -5.3 | 4.8 | 2 | C |
| 21 | 440 | 5.7 | 0 | C | 7.9 | 47 | 273 | 0.3 | -6.2 | 4.3 | 2 | C |
| 22 | 430 | 5.3 | 0 | C | 8.1 | 49 | 319 | 3.9 | -4.7 | 4.9 | 2 | C |
| 23 | 417 | 5.9 | 0 | C | 7.7 | 37 | 282 | 1.1 | -6.4 | 2.7 | 3 | C |
| 24 | 424 | 5.4 | 0 | C | 8.0 | 41 | 291 | 2.2 | -6.6 | 3.8 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 432 | 4.3 | 0 | C | 5.2 | -46 | 281 | 0.6 | -2.6 | -4.1 | 1 | C |
| 2 | 437 | 3.8 | 0 | C | 5.2 | 4 | 291 | 1.4 | -3.7 | -0.3 | 3 | C |
| 3 | 442 | 3.0 | 0 | C | 5.5 | 0 | 312 | 3.5 | -3.8 | -0.5 | 1 | C |
| 4 | 444 | 3.0 | 0 | C | 5.5 | 7 | 332 | 4.7 | -2.6 | 0.4 | 1 | C |
| 5 | 444 | 3.1 | 0 | C | 5.3 | 6 | 320 | 3.9 | -3.4 | 0.5 | 1 | C |
| 6 | 440 | 3.3 | 0 | C | 5.1 | 10 | 301 | 2.5 | -4.2 | 1.0 | 1 | C |
| 7 | 435 | 3.7 | 0 | C | 4.6 | -14 | 295 | 1.7 | -3.8 | -0.7 | 2 | C |
| 8 | 433 | 4.0 | 0 | C | 4.5 | -23 | 313 | 2.4 | -2.8 | -1.2 | 2 | C |
| 9 | 424 | 4.4 | 0 | C | 4.3 | -45 | 321 | 1.8 | -1.9 | -2.1 | 2 | C |
| 10 | 411 | 5.0 | 0 | C | 4.8 | 8 | 332 | 4.1 | -2.0 | 1.0 | 1 | C |
| 11 | 407 | 5.4 | 0 | C | 4.8 | -2 | 3 | 4.7 | 0.2 | -0.2 | 1 | C |
| 12 | 406 | 6.0 | 0 | C | 5.0 | 26 | 11 | 4.4 | 1.3 | 1.9 | 0 | C |
| 13 | 407 | 6.1 | 0 | C | 6.7 | -30 | 23 | 4.8 | 1.4 | -3.3 | 3 | C |
| 14 | 405 | 5.5 | 0 | C | 5.4 | -61 | 27 | 2.1 | 0.4 | -4.3 | 2 | C |
| 15 | 403 | 5.4 | 0 | C | 5.1 | -54 | 140 | -2.2 | 1.4 | -4.2 | 1 | C |
| 16 | 405 | 5.6 | 0 | C | 5.4 | -43 | 163 | -3.5 | 0.9 | -3.5 | 2 | C |
| 17 | 402 | 5.4 | 0 | C | 4.4 | -66 | 129 | -0.8 | 1.0 | -3.0 | 3 | C |
| 18 | 401 | 4.4 | 0 | C | 5.0 | -19 | 56 | 2.1 | 3.1 | -1.1 | 3 | C |
| 19 | 407 | 4.4 | 0 | C | 5.5 | -13 | 10 | 3.1 | 0.7 | -0.7 | 4 | C |
| 20 | 400 | 5.3 | 0 | C | 5.1 | -39 | 240 | -1.9 | -2.7 | -3.5 | 1 | C |
| 21 | 394 | 5.5 | 0 | C | 4.6 | -50 | 242 | -1.0 | -1.3 | -2.7 | 3 | C |
| 22 | 392 | 5.5 | 0 | C | 4.1 | -25 | 262 | -0.4 | -2.6 | -2.0 | 2 | C |
| 23 | 395 | 5.5 | 0 | C | 4.3 | -21 | 244 | -1.5 | -2.6 | -2.0 | 2 | C |
| 24 | 394 | 5.8 | 0 | C | 4.3 | -12 | 216 | -3.1 | -2.0 | -1.3 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 302 | 6.7 | 21 | J | 5.6 | 17 | 153 | -4.7 | 1.9 | 2.1 | 1 | J |
| 302 | 6.1 | 24 | J | 5.5 | 5 | 144 | -4.3 | 2.9 | 1.1 | 1 | J |
| 306 | 7.1 | 23 | J | 5.5 | 10 | 132 | -3.4 | 3.6 | 1.5 | 2 | J |
| 308 | 8.5 | 28 | J | 6.0 | 26 | 146 | -4.3 | 2.6 | 2.9 | 1 | J |
| 313 | 9.1 | 41 | J | 6.2 | 14 | 126 | -3.4 | 4.6 | 1.7 | 1 | J |
| 311 | 8.6 | 23 | J | 6.3 | 6 | 122 | -3.2 | 5.1 | 0.7 | 1 | J |
| 315 | 10.2 | 26 | J | 6.4 | 9 | 121 | -3.2 | 5.4 | 0.8 | 1 | J |
| 336 | 12.4 | 16 | J | 6.5 | 47 | 88 | 0.2 | 4.8 | 4.3 | 1 | J |
| 328 | 12.7 | 21 | J | 6.4 | 23 | 99 | -0.9 | 5.9 | 1.7 | 2 | J |
| 325 | 11.9 | 21 | J | 7.1 | 18 | 99 | -1.0 | 6.8 | 1.1 | 1 | J |
| 319 | 15.0 | 18 | J | 6.2 | 10 | 89 | 0.1 | 6.0 | 0.1 | 2 | J |
| 311 | 13.0 | 14 | J | 6.1 | -8 | 85 | 0.5 | 5.6 | -1.8 | 2 | J |
| 304 | 12.3 | 14 | J | 6.0 | -5 | 91 | -0.1 | 5.4 | -1.3 | 2 | J |
| 307 | 12.6 | 10 | J | 6.6 | -10 | 75 | 1.7 | 6.0 | -1.9 | 1 | J |
| 300 | 11.0 | 9 | J | 6.7 | -18 | 72 | 1.9 | 5.8 | -2.5 | 1 | J |
| 295 | 11.2 | 12 | J | 6.6 | -30 | 67 | 2.2 | 5.1 | -3.4 | 1 | J |
| 297 | 8.5 | 16 | J | 6.7 | -30 | 53 | 2.8 | 3.8 | -2.5 | 4 | J |
| 299 | 7.5 | 16 | J | 6.6 | -25 | 319 | 4.5 | -3.6 | -3.2 | 0 | J |
| 316 | 6.4 | 39 | J | 5.3 | -14 | 290 | 1.7 | -4.4 | -2.0 | 1 | J |
| 305 | 7.3 | 29 | J | 5.5 | -7 | 303 | 2.9 | -4.3 | -1.6 | 1 | J |
| 302 | 7.1 | 18 | J | 5.8 | -8 | 305 | 3.2 | -4.3 | -1.9 | 1 | J |
| 301 | 7.4 | 18 | J | 5.8 | 6 | 305 | 3.3 | -4.7 | -0.6 | 1 | J |
| 301 | 7.3 | 18 | J | 5.9 | 6 | 309 | 3.7 | -4.6 | -0.6 | 1 | J |
| 303 | 6.5 | 21 | J | 6.5 | 7 | 310 | 4.1 | -4.9 | -0.5 | 1 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 377 | 14.4 | 0 | C | 7.0 | -71 | 310 | 1.2 | -0.2 | -5.6 | 4 | J |
| 370 | 10.7 | 38 | J | 9.9 | -38 | 352 | 7.7 | 0.1 | -6.2 | 1 | J |
| 353 | 11.2 | 50 | J | 9.5 | -36 | 346 | 7.4 | -1.0 | -5.7 | 1 | J |
| 346 | 9.5 | 33 | J | 9.5 | -20 | 333 | 7.9 | -3.7 | -3.6 | 1 | J |
| 337 | 12.8 | 0 | C | 9.5 | -18 | 327 | 7.6 | -4.8 | -3.2 | 1 | J |
| 337 | 14.8 | 0 | C | 7.9 | 1 | 346 | 6.5 | -1.6 | 0.1 | 4 | J |
| 345 | 10.1 | 39 | J | 8.0 | 5 | 348 | 6.1 | -1.3 | 0.6 | 5 | J |
| 346 | 10.7 | 36 | J | 7.7 | -20 | 340 | 4.9 | -2.0 | -1.7 | 5 | J |
| 336 | 10.2 | 34 | J | 7.3 | -36 | 334 | 5.2 | -3.1 | -3.8 | 1 | J |
| 339 | 10.9 | 31 | J | 6.6 | -5 | 339 | 5.1 | -2.0 | -0.2 | 3 | C |
| 324 | 15.4 | 0 | C | 6.5 | -45 | 321 | 3.3 | -3.4 | -3.6 | 2 | C |
| 329 | 16.3 | 0 | C | 7.5 | -54 | 291 | 1.5 | -5.0 | -5.1 | 2 | C |
| 327 | 17.5 | 41 | J | 8.0 | -36 | 345 | 6.0 | -2.3 | -4.2 | 2 | J |
| 338 | 16.1 | 41 | J | 9.2 | -27 | 319 | 5.4 | -5.2 | -3.0 | 4 | J |
| 325 | 22.2 | 0 | C | 9.8 | 5 | 315 | 6.8 | -6.7 | 1.5 | 1 | J |
| 329 | 27.1 | 0 | C | 10.3 | -18 | 314 | 6.7 | -6.9 | -2.8 | 2 | C |
| 346 | 21.9 | 0 | C | 9.5 | -21 | 95 | -0.7 | 8.4 | -3.0 | 4 | J |
| 339 | 19.8 | 0 | C | 9.6 | -23 | 317 | 4.7 | -4.1 | -3.1 | 6 | J |
| 351 | 16.8 | 0 | C | 9.6 | 49 | 306 | 3.6 | -6.0 | 6.3 | 2 | J |
| 386 | 10.9 | 0 | C | 12.1 | 27 | 314 | 7.3 | -8.6 | 3.8 | 2 | C |
| 412 | 9.7 | 0 | C | 10.9 | 12 | 304 | 5.5 | -8.4 | 0.3 | 4 | C |
| 422 | 11.8 | 0 | C | 9.6 | -17 | 304 | 4.7 | -6.1 | -4.3 | 3 | C |
| 422 | 11.1 | 0 | C | 10.8 | 0 | 293 | 3.8 | -8.7 | -2.2 | 4 | C |
| 421 | 9.2 | 0 | C | 11.4 | -40 | 291 | 2.9 | -5.9 | -8.8 | 3 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 430 | 6.0 | 0 | C | 8.4 | 26 | 285 | 2.0 | -7.8 | 2.1 | 1 | C |
| 422 | 4.6 | 0 | C | 8.9 | -1 | 280 | 1.5 | -8.5 | -1.6 | 1 | C |
| 421 | 5.3 | 0 | C | 8.6 | -21 | 272 | 0.3 | -6.9 | -3.8 | 3 | C |
| 409 | 5.9 | 0 | C | 7.6 | 8 | 289 | 2.2 | -6.4 | 0.4 | 3 | C |
| 402 | 5.9 | 0 | C | 6.6 | -2 | 295 | 2.7 | -5.7 | -0.4 | 1 | C |
| 406 | 6.1 | 0 | C | 6.9 | -10 | 296 | 2.7 | -5.5 | -0.9 | 3 | C |
| 412 | 5.5 | 0 | C | 7.3 | 2 | 285 | 1.8 | -6.8 | 0.7 | 1 | C |
| 413 | 4.8 | 0 | C | 8.3 | -7 | 290 | 2.7 | -7.4 | -0.1 | 2 | C |
| 408 | 4.9 | 0 | C | 8.4 | 10 | 298 | 3.7 | -6.7 | 2.4 | 2 | C |
| 412 | 5.3 | 0 | C | 8.1 | -9 | 285 | 1.9 | -7.0 | 0.1 | 3 | C |
| 413 | 5.8 | 0 | C | 7.3 | 6 | 303 | 3.3 | -4.8 | 1.6 | 3 | C |
| 423 | 5.7 | 0 | C | 7.3 | -6 | 291 | 2.2 | -5.8 | 0.5 | 3 | C |
| 429 | 5.6 | 0 | C | 7.1 | 5 | 305 | 3.5 | -4.9 | 1.4 | 3 | C |
| 425 | 5.7 | 0 | C | 6.7 | -5 | 301 | 3.3 | -5.5 | 0.3 | 1 | C |
| 449 | 5.5 | 0 | C | 7.1 | -45 | 245 | -1.8 | -4.2 | -3.8 | 4 | C |
| 454 | 5.0 | 0 | C | 6.3 | -40 | 221 | -3.2 | -2.9 | -3.4 | 3 | C |
| 462 | 4.3 | 0 | C | 5.9 | 7 | 310 | 3.3 | -3.9 | 0.6 | 2 | C |
| 470 | 3.9 | 0 | C | 6.2 | 7 | 316 | 4.2 | -4.1 | 0.4 | 2 | C |
| 465 | 3.6 | 0 | C | 6.5 | 19 | 304 | 3.0 | -4.6 | 1.3 | 3 | C |
| 472 | 3.6 | 0 | C | 6.5 | -3 | 290 | 2.0 | -5.3 | -1.3 | 2 | C |
| 471 | 3.6 | 0 | C | 6.4 | -8 | 283 | 1.2 | -5.1 | -1.9 | 3 | C |
| 460 | 3.5 | 0 | C | 6.0 | 9 | 331 | 4.6 | -2.7 | 0.2 | 2 | C |
| 455 | 3.4 | 0 | C | | | | | | | | |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 381 | 6.2 | 0 | C | 5.5 | -8 | 301 | 2.6 | -4.2 | -1.6 | 2 | C |
| 380 | 6.5 | 0 | C | 5.3 | -60 | 359 | 1.8 | 0.5 | -3.1 | 3 | C |
| 376 | 6.7 | 0 | C | 5.1 | -2 | 328 | 4.0 | -2.4 | -0.5 | 2 | C |
| 376 | 7.0 | 0 | C | 5.2 | 4 | 9 | 4.8 | 0.7 | 0.4 | 2 | C |
| 383 | 6.9 | 0 | C | 5.4 | 11 | 330 | 3.6 | -2.1 | 0.8 | 3 | C |
| 388 | 7.3 | 0 | C | 5.5 | -48 | 316 | 2.0 | -2.1 | -3.1 | 3 | C |
| 392 | 8.0 | 0 | C | 5.9 | -81 | 62 | 0.3 | 0.2 | -4.0 | 4 | C |
| 388 | 8.6 | 0 | C | 6.1 | -14 | 69 | 1.7 | 4.1 | -1.7 | 3 | C |
| 383 | 8.9 | 0 | C | 6.3 | -32 | 53 | 2.6 | 2.9 | -3.3 | 3 | C |
| 384 | 8.8 | 0 | C | 6.0 | 24 | 72 | 1.1 | 3.8 | 0.9 | 4 | C |
| 388 | 8.6 | 0 | C | 5.7 | 53 | 39 | 1.8 | 2.1 | 2.8 | 3 | C |
| 394 | 8.2 | 0 | C | 6.2 | 45 | 313 | 1.5 | -1.1 | 2.4 | 5 | C |
| 390 | 7.7 | 0 | C | 6.6 | 1 | 313 | 3.7 | -3.9 | 0.8 | 3 | C |
| 389 | 7.4 | 0 | C | 6.7 | -35 | 287 | 1.2 | -4.4 | -2.2 | 4 | C |
| 387 | 7.1 | 0 | C | 6.6 | -23 | 288 | 1.8 | -5.8 | -1.7 | 1 | C |
| 386 | 7.2 | 0 | C | 6.3 | -10 | 305 | 2.9 | -4.2 | -0.6 | 3 | C |
| 386 | 7.4 | 0 | C | 6.1 | 18 | 301 | 2.6 | -4.4 | 1.7 | 3 | C |
| 383 | 7.3 | 0 | C | 5.8 | 12 | 315 | 3.7 | -3.8 | 0.9 | 2 | C |
| 385 | 7.2 | 0 | C | 6.3 | -9 | 292 | 2.2 | -5.3 | -1.5 | 2 | C |
| 388 | 7.4 | 0 | C | 5.5 | -3 | 289 | 1.4 | -3.8 | -0.9 | 3 | C |
| 388 | 7.3 | 0 | C | 5.3 | 34 | 289 | 1.2 | -3.9 | 1.7 | 3 | C |
| 389 | 6.9 | 0 | C | 6.0 | 15 | 285 | 1.3 | -5.1 | 0.3 | 2 | C |
| 389 | 6.6 | 0 | C | 6.0 | 31 | 278 | 0.7 | -5.0 | 1.7 | 2 | C |
| 380 | 6.4 | 0 | C | 6.1 | 12 | 311 | 3.5 | -4.2 | 0.2 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 376 | 6.1 | 0 | C | 7.0 | 19 | 304 | 3.5 | -5.6 | 1.2 | 1 | C |
| 2 | 384 | 6.4 | 0 | C | 6.4 | 36 | 302 | 2.3 | -4.2 | 2.6 | 3 | C |
| 3 | 390 | 6.7 | 0 | C | 5.8 | 53 | 309 | 1.8 | -2.7 | 3.6 | 3 | C |
| 4 | 388 | 7.7 | 0 | C | 5.8 | 37 | 317 | 3.0 | -2.9 | 2.8 | 2 | C |
| 5 | 396 | 10.8 | 0 | C | 7.6 | 20 | 324 | 3.7 | -2.7 | 1.6 | 5 | C |
| 6 | 424 | 12.4 | 0 | C | 9.4 | -5 | 272 | 0.4 | -9.2 | -0.4 | 1 | C |
| 7 | 432 | 12.8 | 0 | C | 10.1 | -11 | 267 | -0.5 | -9.5 | -1.0 | 3 | C |
| 8 | 423 | 12.9 | 0 | C | 6.0 | -10 | 298 | 2.3 | -4.4 | -0.3 | 3 | C |
| 9 | 414 | 12.4 | 0 | C | 6.1 | 30 | 341 | 4.3 | -1.0 | 2.8 | 3 | C |
| 10 | 411 | 11.5 | 0 | C | 6.7 | 18 | 317 | 3.6 | -3.0 | 2.3 | 4 | C |
| 11 | 407 | 10.6 | 0 | C | 6.3 | 18 | 319 | 3.5 | -2.7 | 2.2 | 3 | C |
| 12 | 414 | 10.0 | 0 | C | 6.9 | -18 | 289 | 1.5 | -4.5 | -0.5 | 4 | C |
| 13 | 421 | 9.8 | 0 | C | 6.7 | 58 | 265 | -0.3 | -2.1 | 5.6 | 2 | C |
| 14 | 408 | 9.5 | 0 | C | 5.4 | 48 | 321 | 2.0 | -1.1 | 3.2 | 4 | C |
| 15 | 407 | 8.8 | 0 | C | 5.4 | 55 | 268 | -0.1 | -2.2 | 4.2 | 2 | C |
| 16 | 416 | 8.1 | 0 | C | 5.7 | 60 | 252 | -0.9 | -2.2 | 4.8 | 2 | C |
| 17 | 418 | 7.6 | 0 | C | 6.0 | 22 | 243 | -2.0 | -4.0 | 1.8 | 3 | C |
| 18 | 415 | 6.9 | 0 | C | 6.0 | 33 | 242 | -1.8 | -3.5 | 2.4 | 3 | C |
| 19 | 413 | 6.5 | 0 | C | 5.9 | 66 | 233 | -1.3 | -2.2 | 4.5 | 2 | C |
| 20 | 416 | 6.2 | 0 | C | 5.7 | 72 | 172 | -1.7 | -0.6 | 5.3 | 1 | C |
| 21 | 414 | 6.0 | 0 | C | 5.2 | 39 | 216 | -3.1 | -2.8 | 2.6 | 1 | C |
| 22 | 405 | 5.6 | 0 | C | 4.9 | 26 | 222 | -2.3 | -2.3 | 1.0 | 3 | C |
| 23 | 414 | 4.4 | 0 | C | 5.8 | 65 | 144 | -1.9 | 0.3 | 5.3 | 1 | C |
| 24 | 430 | 4.4 | 0 | C | 5.7 | 53 | 173 | -3.4 | -0.5 | 4.5 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 5.4 | 0 | C | 6.1 | -2 | 130 | -3.9 | 4.5 | 0.5 | 1 | C |
| 2 | 376 | 5.6 | 0 | C | 6.3 | -1 | 114 | -2.5 | 5.5 | 0.7 | 1 | C |
| 3 | 385 | 5.7 | 0 | C | 6.3 | 19 | 105 | -1.5 | 5.4 | 2.6 | 1 | C |
| 4 | 386 | 5.9 | 0 | C | 5.9 | -4 | 117 | -2.7 | 5.1 | -0.2 | 1 | C |
| 5 | 392 | 5.9 | 0 | C | 6.3 | -24 | 105 | -1.3 | 4.9 | -2.3 | 3 | C |
| 6 | 394 | 5.9 | 0 | C | 5.9 | 43 | 124 | -1.3 | 2.0 | 2.0 | 5 | C |
| 7 | 387 | 5.8 | 0 | C | 5.8 | 22 | 141 | -3.5 | 3.0 | 1.5 | 3 | C |
| 8 | 383 | 5.4 | 0 | C | 5.9 | 12 | 134 | -3.8 | 4.1 | 0.5 | 2 | C |
| 9 | 385 | 5.5 | 0 | C | 5.7 | 2 | 135 | -3.8 | 3.7 | -0.5 | 2 | C |
| 10 | 386 | 5.8 | 0 | C | 5.5 | -4 | 128 | -3.2 | 3.8 | -1.2 | 1 | C |
| 11 | 382 | 6.0 | 0 | C | 5.8 | -11 | 130 | -3.5 | 3.8 | -2.0 | 1 | C |
| 12 | 380 | 6.1 | 0 | C | 5.5 | 17 | 134 | -3.2 | 3.6 | 0.6 | 2 | C |
| 13 | 384 | 6.4 | 0 | C | 5.5 | 43 | 131 | -2.1 | 3.0 | 2.3 | 3 | C |
| 14 | 383 | 6.4 | 0 | C | 5.5 | 14 | 147 | -4.4 | 3.0 | 0.8 | 1 | C |
| 15 | 379 | 6.1 | 0 | C | 5.8 | 6 | 158 | -5.2 | 2.2 | 0.3 | 1 | C |
| 16 | 376 | 6.5 | 0 | C | 5.8 | 27 | 192 | -4.8 | -0.8 | 2.5 | 2 | C |
| 17 | 378 | 7.5 | 0 | C | 5.9 | 36 | 204 | -4.3 | -1.8 | 3.5 | 1 | C |
| 18 | 381 | 8.8 | 0 | C | 7.0 | 42 | 165 | -4.2 | 1.0 | 4.0 | 3 | C |
| 19 | 381 | 8.0 | 0 | C | 7.9 | 30 | 127 | -4.0 | 4.9 | 4.4 | 1 | C |
| 20 | 376 | 7.2 | 0 | C | 8.4 | 17 | 130 | -5.1 | 5.7 | 3.2 | 1 | C |
| 21 | 368 | 8.4 | 0 | C | 8.1 | 23 | 138 | -5.4 | 4.2 | 3.9 | 1 | C |
| 22 | 366 | 8.8 | 0 | C | 7.7 | 20 | 145 | -5.9 | 3.5 | 3.4 | 1 | C |
| 23 | 364 | 9.5 | 0 | C | 7.2 | 17 | 155 | -6.0 | 2.4 | 2.5 | 2 | C |
| 24 | 365 | 11.2 | 0 | C | 6.2 | 60 | 162 | -2.7 | -0.1 | 5.1 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 9.1 | 84 | J | 8.6 | 17 | 113 | -3.0 | 6.7 | 3.5 | 3 | J |
| 2 | 409 | 8.9 | 69 | J | 8.3 | 66 | 115 | -1.3 | 1.9 | 7.2 | 3 | J |
| 3 | 405 | 9.1 | 95 | J | 7.2 | 5 | 136 | -4.3 | 4.1 | 0.9 | 4 | J |
| 4 | 398 | 9.0 | 127 | J | 6.3 | -22 | 173 | -5.2 | 0.7 | -2.1 | 3 | J |
| 5 | 428 | 8.9 | 96 | J | 7.2 | 17 | 113 | -1.3 | 3.2 | 1.0 | 6 | J |
| 6 | 410 | 8.7 | 89 | J | 7.7 | -8 | 127 | -4.0 | 5.2 | -1.3 | 4 | J |
| 7 | 421 | 9.1 | 94 | J | 7.9 | 60 | 129 | -2.2 | 3.4 | 5.7 | 3 | J |
| 8 | 415 | 8.5 | 71 | J | 8.1 | 30 | 124 | -3.5 | 5.8 | 2.7 | 3 | J |
| 9 | 392 | 9.4 | 69 | J | 8.7 | -24 | 169 | -7.4 | 0.7 | -3.6 | 3 | J |
| 10 | 414 | 9.2 | 68 | J | 8.7 | -20 | 134 | -4.4 | 3.9 | -3.3 | 5 | J |
| 11 | 413 | 9.5 | 70 | J | 9.0 | -9 | 126 | -4.5 | 5.8 | -2.7 | 5 | J |
| 12 | 432 | 10.1 | 77 | J | 9.5 | -16 | 103 | -1.9 | 7.5 | -4.4 | 3 | J |
| 13 | 405 | 9.7 | 52 | J | 9.7 | -25 | 130 | -5.1 | 5.0 | -5.0 | 4 | J |
| 14 | 421 | 10.5 | 53 | J | 10.3 | -32 | 107 | -2.4 | 6.7 | -6.7 | 3 | J |
| 15 | 409 | 11.1 | 51 | J | 11.1 | -18 | 112 | -3.9 | 9.0 | -4.9 | 1 | J |
| 16 | 418 | 12.1 | 64 | J | 12.2 | -20 | 119 | -5.3 | 9.1 | -4.9 | 4 | J |
| 17 | 422 | 13.4 | 83 | J | 11.0 | 3 | 133 | -4.8 | 5.1 | 0.1 | 8 | J |
| 18 | 425 | 14.0 | 89 | J | 10.4 | 50 | 154 | -5.1 | 2.4 | 6.9 | 5 | J |
| 19 | 410 | 14.4 | 84 | J | 10.7 | 12 | 128 | -5.8 | 7.3 | 2.6 | 4 | J |
| 20 | 397 | 12.8 | 72 | J | 10.2 | -20 | 139 | -6.9 | 6.4 | -2.6 | 3 | J |
| 21 | 406 | 11.8 | 62 | J | 10.6 | -26 | 126 | -5.3 | 8.0 | -3.2 | 3 | J |
| 22 | 432 | 10.8 | 140 | J | 9.6 | 28 | 133 | -4.9 | 4.5 | 4.7 | 5 | J |
| 23 | 473 | 7.0 | 172 | J | 10.2 | 5 | 131 | -5.5 | 6.1 | 1.9 | 5 | J |
| 24 | 468 | 8.6 | 0 | C | 8.7 | 10 | 125 | -3.4 | 4.6 | 1.9 | 6 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 459 | 6.6 | 0 | C | 7.0 | -12 | 118 | -2.8 | 5.4 | -0.5 | 3 | C |
| 2 | 452 | 7.4 | 0 | C | 6.6 | -35 | 123 | -2.5 | 4.3 | -2.7 | 3 | C |
| 3 | 446 | 7.3 | 116 | J | 5.6 | -7 | 142 | -4.0 | 3.2 | -0.4 | 3 | J |
| 4 | 443 | 7.6 | 115 | J | 5.7 | 3 | 131 | -3.3 | 3.8 | 0.3 | 2 | C |
| 5 | 456 | 7.6 | 60 | J | 5.3 | -11 | 95 | -0.3 | 4.0 | -0.9 | 3 | J |
| 6 | 430 | 7.6 | 0 | C | 5.7 | -79 | 285 | 0.3 | -1.5 | -5.4 | 1 | J |
| 7 | 429 | 6.1 | 113 | J | 4.9 | 8 | 149 | -3.8 | 2.4 | 0.3 | 2 | J |
| 8 | 431 | 6.6 | 0 | C | 5.1 | -3 | 132 | -3.0 | 3.2 | -0.8 | 2 | C |
| 9 | 430 | 6.6 | 115 | J | 4.5 | -22 | 169 | -3.8 | 0.4 | -1.7 | 2 | J |
| 10 | 442 | 6.5 | 117 | J | 4.5 | -12 | 143 | -3.1 | 2.1 | -1.4 | 2 | J |
| 11 | 476 | 9.5 | 90 | J | 6.7 | 65 | 153 | -1.8 | 2.0 | 3.9 | 5 | J |
| 12 | 483 | 10.3 | 110 | J | 6.2 | 64 | 236 | -0.8 | -0.4 | 3.1 | 5 | J |
| 13 | 483 | 10.0 | 126 | J | 5.9 | 34 | 114 | -1.2 | 3.0 | 1.3 | 5 | J |
| 14 | 485 | 9.8 | 101 | J | 6.7 | 72 | 254 | -0.5 | -0.5 | 6.1 | 3 | J |
| 15 | 492 | 9.6 | 101 | J | 6.0 | 57 | 92 | -0.1 | 2.7 | 2.9 | 4 | J |
| 16 | 449 | 11.2 | 0 | C | 5.9 | 14 | 170 | -4.3 | 0.9 | 1.0 | 4 | C |
| 17 | 464 | 8.5 | 65 | J | 6.3 | 0 | 103 | -1.3 | 5.6 | -0.3 | 2 | J |
| 18 | 454 | 7.6 | 70 | J | 6.6 | 0 | 114 | -2.4 | 5.5 | 0.0 | 3 | J |
| 19 | 461 | 7.8 | 41 | J | 7.2 | -36 | 101 | -1.0 | 5.6 | -3.6 | 3 | J |
| 20 | 446 | 7.8 | 66 | J | 6.8 | 4 | 111 | -2.3 | 6.0 | 1.1 | 2 | J |
| 21 | 450 | 7.5 | 60 | J | 6.6 | -18 | 112 | -2.1 | 5.4 | -1.0 | 3 | J |
| 22 | 419 | 8.1 | 0 | C | 6.5 | 16 | 112 | -2.2 | 5.1 | 2.6 | 2 | C |
| 23 | 430 | 6.7 | 47 | J | 6.2 | 37 | 116 | -1.7 | 2.9 | 3.4 | 4 | J |
| 24 | 460 | 8.6 | 33 | J | 7.5 | -29 | 95 | -0.6 | 7.0 | -2.5 | 0 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 422 | 4.7 | 0 | C | 5.4 | 50 | 179 | -3.4 | -0.7 | 4.1 | 0 | C |
| 404 | 4.7 | 0 | C | 5.6 | 50 | 174 | -3.6 | -0.2 | 4.2 | 0 | C |
| 393 | 4.9 | 0 | C | 5.5 | 57 | 165 | -2.9 | 0.3 | 4.6 | 1 | C |
| 395 | 5.0 | 0 | C | 5.4 | 52 | 189 | -3.3 | -0.7 | 4.2 | 0 | C |
| 408 | 4.8 | 0 | C | 5.5 | 52 | 189 | -3.3 | -0.5 | 4.3 | 0 | C |
| 415 | 4.7 | 0 | C | 5.4 | 52 | 207 | -3.0 | -1.3 | 4.3 | 0 | C |
| 412 | 4.9 | 0 | C | 5.4 | 53 | 210 | -2.9 | -1.2 | 4.5 | 0 | C |
| 404 | 4.8 | 0 | C | 5.6 | 51 | 210 | -3.1 | -1.1 | 4.6 | 0 | C |
| 400 | 4.8 | 0 | C | 5.8 | 48 | 219 | -3.0 | -1.6 | 4.7 | 1 | C |
| 403 | 5.2 | 0 | C | 5.6 | 44 | 216 | -3.2 | -1.5 | 4.2 | 1 | C |
| 407 | 6.0 | 0 | C | 5.5 | 40 | 212 | -3.5 | -1.4 | 3.8 | 1 | C |
| 402 | 6.3 | 0 | C | 5.8 | 56 | 183 | -3.2 | 0.9 | 4.6 | 1 | C |
| 390 | 5.9 | 0 | C | 5.6 | 65 | 171 | -2.3 | 1.4 | 4.9 | 1 | C |
| 384 | 6.0 | 0 | C | 5.5 | 67 | 155 | -1.9 | 1.8 | 4.8 | 1 | C |
| 375 | 6.5 | 0 | C | 5.2 | 76 | 163 | -1.2 | 1.0 | 4.9 | 0 | C |
| 373 | 6.9 | 0 | C | 5.0 | 74 | 190 | -1.3 | 0.1 | 4.7 | 1 | C |
| 386 | 8.6 | 0 | C | 4.5 | 60 | 232 | -1.3 | -1.6 | 3.7 | 1 | C |
| 388 | 10.3 | 0 | C | 4.6 | 42 | 294 | 1.2 | -2.8 | 2.6 | 2 | C |
| 384 | 10.8 | 0 | C | 4.1 | -2 | 315 | 2.4 | -2.4 | -0.4 | 2 | C |
| 375 | 8.5 | 0 | C | 5.3 | -24 | 307 | 2.8 | -3.4 | -2.6 | 1 | C |
| 367 | 6.5 | 0 | C | 5.7 | 10 | 113 | -0.5 | 1.2 | 0.5 | 5 | C |
| 363 | 5.6 | 0 | C | 6.2 | -6 | 118 | -2.8 | 5.3 | 0.5 | 1 | C |
| 373 | 5.3 | 0 | C | 6.2 | -17 | 120 | -3.0 | 5.3 | -0.7 | 1 | C |
| 368 | 5.4 | 0 | C | 6.2 | -16 | 114 | -2.4 | 5.6 | -0.6 | 1 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 361 | 11.8 | 0 | C | 6.3 | 37 | 156 | -4.5 | 1.4 | 4.0 | 1 | C |
| 359 | 12.0 | 0 | C | 6.2 | 14 | 150 | -5.0 | 2.7 | 1.9 | 1 | C |
| 380 | 9.8 | 46 | J | 5.9 | 26 | 160 | -4.8 | 1.5 | 2.6 | 2 | C |
| 382 | 12.1 | 49 | J | 5.6 | 58 | 201 | -2.3 | -1.0 | 3.9 | 3 | J |
| 381 | 11.1 | 43 | J | 5.0 | 51 | 166 | -2.5 | 0.7 | 3.2 | 3 | J |
| 378 | 11.0 | 47 | J | 5.8 | 26 | 146 | -4.1 | 2.9 | 2.2 | 2 | J |
| 382 | 11.7 | 51 | J | 6.6 | 28 | 138 | -3.8 | 3.7 | 2.3 | 3 | J |
| 372 | 10.5 | 46 | J | 6.6 | -6 | 142 | -4.8 | 3.6 | -1.2 | 2 | J |
| 380 | 10.0 | 48 | J | 6.6 | -27 | 135 | -4.0 | 3.4 | -3.6 | 2 | J |
| 391 | 10.0 | 53 | J | 6.5 | -34 | 120 | -2.1 | 2.9 | -3.5 | 4 | J |
| 395 | 9.2 | 50 | J | 7.0 | 1 | 115 | -2.8 | 5.8 | -1.3 | 2 | J |
| 383 | 10.3 | 48 | J | 7.7 | 30 | 146 | -5.2 | 4.2 | 2.7 | 2 | J |
| 376 | 10.5 | 46 | J | 8.4 | 26 | 152 | -6.3 | 4.0 | 2.8 | 2 | J |
| 375 | 9.7 | 48 | J | 8.0 | -21 | 144 | -5.5 | 3.6 | -3.2 | 3 | J |
| 384 | 10.2 | 48 | J | 8.4 | 29 | 125 | -3.6 | 5.5 | 3.0 | 4 | J |
| 393 | 10.9 | 53 | J | 7.9 | 45 | 138 | -3.7 | 3.5 | 4.8 | 4 | J |
| 381 | 10.7 | 48 | J | 8.0 | -16 | 131 | -4.8 | 5.6 | -1.9 | 2 | J |
| 389 | 11.1 | 47 | J | 8.6 | -47 | 126 | -3.3 | 5.1 | -5.7 | 2 | J |
| 408 | 10.7 | 40 | J | 8.8 | -59 | 85 | 0.4 | 5.3 | -6.6 | 2 | J |
| 401 | 9.7 | 73 | J | 8.5 | 63 | 164 | -3.5 | -0.2 | 7.2 | 3 | J |
| 394 | 9.5 | 83 | J | 8.0 | 42 | 140 | -4.3 | 2.6 | 5.7 | 3 | J |
| 395 | 9.5 | 85 | J | 8.0 | 18 | 128 | -4.2 | 4.8 | 3.2 | 3 | J |
| 396 | 9.0 | 90 | J | 8.1 | -12 | 123 | -4.1 | 6.5 | -0.4 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 482 | 6.9 | 213 | J | 8.5 | 17 | 135 | -4.8 | 4.4 | 2.8 | 5 | J |
| 495 | 7.8 | 262 | J | 7.9 | 34 | 165 | -4.6 | 0.8 | 3.4 | 5 | J |
| 494 | 6.6 | 180 | J | 8.1 | 37 | 126 | -3.3 | 4.2 | 4.6 | 4 | J |
| 500 | 5.7 | 163 | J | 8.2 | -7 | 122 | -3.4 | 5.5 | -0.6 | 5 | J |
| 519 | 4.3 | 106 | J | 8.1 | -15 | 94 | -0.5 | 7.0 | -2.1 | 3 | J |
| 515 | 5.3 | 212 | J | 7.8 | -1 | 94 | -0.5 | 7.1 | -0.7 | 3 | J |
| 501 | 4.5 | 178 | J | 6.7 | 4 | 119 | -3.1 | 5.7 | -0.3 | 1 | J |
| 494 | 4.9 | 226 | J | 6.4 | -3 | 142 | -4.6 | 3.5 | -0.9 | 3 | J |
| 549 | 6.8 | 360 | J | 7.7 | -32 | 109 | -2.0 | 5.0 | -5.1 | 2 | J |
| 521 | 6.3 | 230 | J | 8.0 | -2 | 146 | -5.3 | 3.4 | -1.1 | 5 | J |
| 514 | 5.8 | 159 | J | 8.1 | -1 | 173 | -6.5 | 0.8 | -0.3 | 5 | J |
| 531 | 5.8 | 255 | J | 8.5 | -2 | 119 | -3.5 | 6.1 | -1.8 | 4 | J |
| 547 | 5.1 | 256 | J | 9.2 | -5 | 106 | -2.4 | 7.9 | -2.7 | 3 | J |
| 541 | 4.1 | 198 | J | 9.4 | 4 | 101 | -1.7 | 8.7 | -1.2 | 3 | J |
| 557 | 3.9 | 210 | J | 9.4 | -4 | 95 | -0.8 | 8.6 | -2.1 | 3 | J |
| 524 | 3.8 | 156 | J | 9.2 | 14 | 115 | -3.4 | 7.4 | 1.2 | 4 | J |
| 537 | 3.6 | 170 | J | 9.1 | 25 | 105 | -2.0 | 7.7 | 3.3 | 3 | J |
| 523 | 3.3 | 132 | J | 9.0 | 18 | 116 | -3.6 | 7.3 | 2.7 | 3 | J |
| 514 | 3.8 | 134 | J | 8.8 | 20 | 127 | -4.9 | 6.2 | 3.4 | 2 | J |
| 504 | 4.1 | 125 | J | 8.7 | 26 | 128 | -4.7 | 5.5 | 4.4 | 2 | J |
| 497 | 4.9 | 140 | J | 8.2 | 16 | 128 | -4.7 | 5.7 | 3.1 | 2 | J |
| 484 | 5.4 | 156 | J | 7.8 | 2 | 122 | -3.9 | 6.1 | 1.3 | 2 | J |
| 480 | 4.7 | 102 | J | 7.8 | -7 | 122 | -4.0 | 6.5 | 0.2 | 2 | J |
| 490 | 5.3 | 98 | J | 7.5 | -34 | 112 | -2.1 | 5.9 | -2.9 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 439 | 3.4 | 20 | J | 7.3 | -20 | 98 | -1.0 | 7.1 | -1.5 | 1 | J |
| 425 | 4.3 | 36 | J | 6.9 | -15 | 113 | -2.6 | 6.2 | -1.1 | 2 | J |
| 435 | 3.7 | 34 | J | 6.6 | -6 | 120 | -3.2 | 5.5 | -0.3 | 1 | J |
| 420 | 4.3 | 32 | J | 6.3 | -25 | 124 | -3.1 | 4.7 | -2.5 | 1 | J |
| 406 | 4.5 | 22 | J | 7.3 | -12 | 140 | -5.1 | 4.3 | -1.6 | 2 | C |
| 412 | 6.9 | 0 | C | 7.0 | -39 | 130 | -3.3 | 3.5 | -4.5 | 2 | C |
| 416 | 6.9 | 0 | C | 7.1 | -36 | 123 | -3.0 | 4.1 | -4.7 | 2 | J |
| 424 | 5.1 | 26 | J | 6.8 | -25 | 125 | -3.4 | 4.2 | -3.6 | 2 | J |
| 432 | 4.6 | 28 | J | 6.0 | -62 | 131 | -1.7 | 0.8 | -5.2 | 2 | J |
| 393 | 5.7 | 33 | J | 6.1 | -4 | 161 | -5.7 | 1.8 | -0.9 | 1 | J |
| 396 | 6.8 | 31 | J | 5.8 | 9 | 175 | -5.6 | 0.7 | 0.7 | 1 | J |
| 391 | 5.7 | 28 | J | 5.0 | -6 | 173 | -4.7 | 0.4 | -0.6 | 1 | J |
| 386 | 4.9 | 25 | J | 4.7 | -10 | 169 | -4.4 | 0.6 | -1.0 | 1 | J |
| 385 | 4.5 | 24 | J | 5.8 | -12 | 163 | -5.3 | 1.3 | -1.5 | 1 | J |
| 382 | 5.3 | 0 | C | 5.6 | -20 | 158 | -4.9 | 1.6 | -2.2 | 1 | C |
| 378 | 5.0 | 0 | C | 5.6 | -21 | 156 | -4.7 | 1.8 | -2.2 | 1 | C |
| 393 | 3.2 | 18 | J | 5.6 | -22 | 127 | -3.1 | 3.9 | -2.3 | 1 | J |
| 397 | 3.7 | 21 | J | 5.6 | -33 | 124 | -2.4 | 3.5 | -2.8 | 2 | J |
| 384 | 4.0 | 35 | J | 5.3 | -12 | 143 | -4.1 | 3.1 | -0.9 | 1 | J |
| 381 | 4.0 | 29 | J | 5.4 | -28 | 156 | -4.1 | 2.1 | -2.2 | 2 | J |
| 362 | 2.6 | 54 | L | 5.4 | -20 | 158 | -4.6 | 2.1 | -1.5 | 1 | J |
| 360 | 2.6 | 54 | L | 5.6 | -27 | 166 | -4.8 | 1.6 | -2.3 | 1 | J |
| 364 | 2.6 | 44 | L | 5.5 | -12 | 151 | -4.6 | 2.7 | -0.7 | 1 | J |
| 380 | 3.3 | 30 | L | 5.5 | -44 | 144 | -2.8 | 2.5 | -3.0 | 3 | J |

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JUN. 29, 1981 180

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 4.0 | 19 | L | 5.6 | -53 | 133 | -2.3 | 3.0 | -4.0 | 1 | J |
| 2 | 360 | 6.0 | 0 | C | 5.8 | 0 | 160 | -5.4 | 2.0 | 0.2 | 1 | C |
| 3 | 357 | 6.2 | 0 | C | 5.9 | -7 | 149 | -5.0 | 3.1 | -0.5 | 1 | J |
| 4 | 361 | 6.7 | 0 | C | 6.0 | -11 | 137 | -4.2 | 4.0 | -1.1 | 1 | J |
| 5 | 366 | 7.7 | 0 | C | 6.0 | -27 | 134 | -3.6 | 3.6 | -2.8 | 1 | J |
| 6 | 368 | 9.1 | 0 | C | 6.4 | -74 | 104 | -0.4 | 1.0 | -5.7 | 3 | J |
| 7 | 410 | 15.7 | 0 | C | 14.4 | -75 | 142 | -2.9 | 0.2 | -14.0 | 3 | J |
| 8 | 448 | 19.4 | 65 | J | 14.1 | -44 | 130 | -6.1 | 5.3 | -10.3 | 5 | J |
| 9 | 444 | 13.9 | 78 | J | 14.6 | -36 | 126 | -6.8 | 7.2 | -10.4 | 2 | J |
| 10 | 442 | 13.1 | 72 | J | 14.8 | -46 | 136 | -7.0 | 4.0 | -11.5 | 4 | J |
| 11 | 472 | 14.2 | 107 | J | 13.0 | -37 | 126 | -5.4 | 5.3 | -8.7 | 6 | J |
| 12 | 454 | 13.8 | 0 | C | 15.1 | -77 | 327 | 2.5 | -5.0 | -11.9 | 8 | J |
| 13 | 439 | 11.7 | 0 | C | 13.9 | -63 | 160 | -3.4 | -0.6 | -7.1 | 12 | J |
| 14 | 421 | 10.3 | 0 | C | 15.5 | -22 | 134 | -8.3 | 7.3 | -6.6 | 8 | C |
| 15 | 413 | 9.1 | 0 | C | 16.6 | -12 | 126 | -9.6 | 12.2 | -5.7 | 1 | C |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 397 | 6.5 | 0 | C | 14.0 | 19 | 131 | -8.7 | 10.3 | 3.9 | 0 | C |
| 18 | 397 | 6.5 | 0 | C | 13.4 | 21 | 131 | -8.0 | 9.1 | 4.6 | 3 | C |
| 19 | 393 | 4.5 | 59 | J | 13.6 | 6 | 148 | -11.3 | 7.1 | 1.8 | 2 | C |
| 20 | 388 | 4.3 | 168 | L | 12.5 | -16 | 155 | -10.9 | 5.4 | -2.9 | 1 | J |
| 21 | 416 | 4.3 | 51 | J | 12.7 | 2 | 153 | -11.2 | 5.6 | 1.2 | 1 | J |
| 22 | 417 | 4.5 | 66 | J | 12.8 | -3 | 154 | -11.4 | 5.6 | 0.2 | 1 | J |
| 23 | 411 | 5.6 | 45 | J | 13.0 | 28 | 151 | -10.0 | 4.5 | 6.8 | 2 | J |
| 24 | 419 | 5.1 | 113 | L | 12.6 | 22 | 139 | -8.7 | 6.8 | 5.7 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 432 | 7.6 | 0 | C | 12.5 | -30 | 124 | -5.8 | 9.2 | -4.8 | 3 | C |
| 431 | 8.7 | 105 | J | 6.6 | -46 | 326 | 2.8 | -1.6 | -3.7 | 4 | J |
| 429 | 9.1 | 100 | J | 11.8 | 25 | 145 | -7.9 | 5.3 | 4.8 | 6 | J |
| 434 | 12.2 | 140 | J | 12.7 | 56 | 160 | -6.2 | 2.3 | 9.8 | 5 | J |
| 444 | 13.9 | 83 | J | 14.1 | 67 | 180 | -5.2 | 0.6 | 12.3 | 4 | J |
| 443 | 16.5 | 0 | C | 15.7 | 48 | 127 | -5.7 | 8.5 | 9.6 | 6 | C |
| 460 | 10.9 | 68 | J | 14.9 | 63 | 97 | -0.8 | 8.3 | 11.8 | 3 | C |
| 438 | 10.0 | 104 | J | 14.8 | 87 | 104 | -0.2 | 3.5 | 13.4 | 5 | C |
| 437 | 9.0 | 108 | J | 14.6 | 67 | 244 | -2.5 | -1.8 | 14.0 | 3 | C |
| 436 | 9.5 | 120 | J | 13.9 | 66 | 263 | -0.7 | -2.0 | 13.5 | 2 | C |
| 425 | 12.0 | 0 | C | 14.1 | 79 | 219 | -1.9 | 2.1 | 13.0 | 4 | C |
| 419 | 9.8 | 105 | J | 14.0 | 83 | 219 | -1.2 | 2.7 | 13.1 | 3 | C |
| 422 | 12.0 | 0 | C | 14.0 | 55 | 245 | -3.2 | -3.8 | 12.3 | 4 | C |
| 418 | 10.6 | 0 | C | 12.9 | 52 | 245 | -3.1 | -4.3 | 10.8 | 3 | C |
| 414 | 9.0 | 0 | C | 13.3 | 72 | 141 | -3.0 | 4.7 | 11.0 | 5 | C |
| 424 | 8.7 | 0 | C | 11.4 | 30 | 128 | -4.7 | 6.7 | 3.5 | 7 | C |
| 448 | 9.3 | 0 | C | 11.9 | 2 | 110 | -3.6 | 10.0 | -0.4 | 4 | C |
| 477 | 10.1 | 0 | C | 11.1 | 5 | 116 | -4.4 | 9.2 | 0.7 | 4 | C |
| 475 | 11.2 | 0 | C | 10.4 | -12 | 123 | -4.4 | 6.9 | -1.4 | 5 | C |
| 466 | 11.9 | 0 | C | 9.5 | 12 | 153 | -6.9 | 3.4 | 1.9 | 4 | C |
| 469 | 10.8 | 0 | C | 9.2 | -35 | 114 | -2.4 | 5.9 | -3.4 | 5 | C |
| 474 | 9.5 | 0 | C | 8.2 | -27 | 142 | -4.7 | 4.0 | -2.5 | 4 | C |
| 403 | 9.2 | 0 | C | 8.0 | -22 | 134 | -4.6 | 5.1 | -1.9 | 3 | C |
| 417 | 8.4 | 0 | C | 8.1 | -61 | 160 | -3.4 | 2.1 | -6.3 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 489 | 7.2 | 0 | C | 7.4 | -80 | 138 | -0.8 | 1.5 | -6.1 | 3 | C |
| 2 | 474 | 6.4 | 0 | C | 7.3 | -3 | 156 | -6.2 | 2.8 | -0.1 | 2 | C |
| 3 | 475 | 6.1 | 0 | C | 7.1 | -17 | 149 | -5.1 | 3.1 | -1.7 | 3 | C |
| 4 | 477 | 6.2 | 0 | C | 8.1 | 34 | 158 | -5.7 | 2.3 | 4.1 | 3 | C |
| 5 | 477 | 6.5 | 0 | C | 8.2 | 14 | 147 | -5.9 | 4.0 | 1.6 | 2 | C |
| 6 | 477 | 6.6 | 0 | C |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 475 | 7.2 | 0 | C | 7.0 | 27 | 178 | -6.1 | 0.8 | 3.0 | 1 | C |
| 9 | 475 | 7.2 | 0 | C | 7.0 | -15 | 131 | -3.7 | 3.8 | -2.6 | 3 | C |
| 10 | 476 | 6.6 | 0 | C | 7.0 | 8 | 107 | -2.0 | 6.4 | -0.8 | 1 | C |
| 11 | 476 | 6.4 | 0 | C | 6.6 | 26 | 117 | -2.6 | 5.5 | 1.2 | 2 | C |
| 12 | 468 | 6.3 | 0 | C | 6.7 | 15 | 148 | -5.3 | 3.6 | 0.7 | 2 | C |
| 13 | 460 | 6.3 | 0 | C | 6.6 | 6 | 102 | -1.2 | 5.4 | -0.9 | 3 | C |
| 14 | 465 | 6.8 | 0 | C | 6.7 | -14 | 123 | -2.7 | 3.8 | -2.3 | 4 | C |
| 15 | 462 | 6.9 | 0 | C | 7.6 | -5 | 135 | -4.9 | 4.7 | -1.6 | 3 | C |
| 16 | 453 | 8.3 | 0 | C | 8.7 | 0 | 121 | -4.2 | 6.9 | -1.0 | 3 | C |
| 17 | 442 | 9.0 | 0 | C | 8.4 | -11 | 117 | -3.7 | 6.9 | -2.2 | 2 | C |
| 18 | 436 | 8.9 | 0 | C | 7.8 | -20 | 116 | -3.0 | 6.1 | -2.7 | 2 | C |
| 19 | 432 | 8.2 | 0 | C | 7.8 | -6 | 126 | -4.4 | 6.1 | -0.5 | 2 | C |
| 20 | 439 | 8.3 | 0 | C | 7.4 | -12 | 131 | -4.1 | 4.7 | -1.0 | 3 | C |
| 21 | 442 | 9.5 | 0 | C | 7.2 | 0 | 118 | -3.1 | 5.9 | 0.7 | 1 | C |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 455 | 17.2 | 0 | C | 8.5 | 42 | 161 | -5.5 | 1.3 | 5.5 | 2 | C |
| 453 | 18.1 | 0 | C | 8.6 | 33 | 141 | -4.9 | 3.6 | 4.3 | 3 | C |
| 457 | 18.4 | 0 | C | 7.7 | 40 | 174 | -3.8 | 0.3 | 3.2 | 5 | C |
| 463 | 18.1 | 0 | C | 5.6 | -59 | 161 | -1.4 | 0.5 | -2.5 | 4 | C |
| 452 | 17.8 | 0 | C | 6.5 | -61 | 281 | 0.5 | -2.8 | -4.4 | 3 | C |
| 461 | 17.4 | 0 | C | 7.6 | -77 | 15 | 1.2 | -0.3 | -5.3 | 4 | C |
| 457 | 16.7 | 0 | C | 7.0 | -73 | 223 | -0.8 | -1.3 | -3.3 | 5 | C |
| 458 | 15.8 | 0 | C | 5.6 | -44 | 239 | -1.1 | -2.3 | -1.7 | 4 | C |
| 450 | 14.6 | 0 | C | 8.5 | -62 | 155 | -3.4 | -0.2 | -7.2 | 3 | C |
| 448 | 13.7 | 0 | C | 6.8 | -4 | 104 | -1.4 | 5.2 | -1.9 | 3 | C |
| 462 | 14.6 | 0 | C | 6.1 | -18 | 52 | 2.1 | 2.2 | -1.8 | 5 | C |
| 458 | 15.4 | 0 | C | 6.5 | -59 | 111 | -0.4 | 0.5 | -2.3 | 5 | C |
| 460 | 16.3 | 0 | C | 7.6 | -12 | 138 | -4.0 | 3.2 | -2.2 | 4 | C |
| 467 | 15.1 | 0 | C | 8.6 | 32 | 117 | -2.2 | 5.0 | 1.9 | 6 | C |
| 470 | 10.9 | 0 | C | 9.5 | 63 | 154 | -3.8 | 3.5 | 7.8 | 1 | C |
| 483 | 7.9 | 0 | C | 8.9 | 49 | 159 | -4.7 | 2.7 | 5.4 | 4 | C |
| 502 | 8.4 | 0 | C | 7.1 | 36 | 174 | -4.5 | 0.7 | 3.2 | 4 | C |
| 498 | 8.0 | 0 | C | 7.4 | 33 | 212 | -5.0 | -3.0 | 4.0 | 2 | C |
| 512 | 13.2 | 0 | C | 7.3 | 29 | 178 | -5.9 | 0.1 | 3.3 | 2 | C |
| 519 | 15.1 | 0 | C | 7.7 | 16 | 151 | -5.8 | 3.1 | 2.2 | 3 | C |
| 529 | 13.3 | 0 | C | 3.6 | 3 | 330 | 2.0 | -1.2 | 0.0 | 2 | C |
| 529 | 13.3 | 0 | C | 4.9 | 2 | 337 | 4.5 | -1.9 | -0.1 | 1 | C |
| 495 | 12.0 | 0 | C | 4.1 | 9 | 324 | 3.0 | -2.2 | 0.3 | 2 | C |
| 484 | 11.3 | 0 | C | 3.1 | 25 | 254 | -0.8 | -2.8 | 0.9 | 0 | C |

JUL. 3, 1981 184

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 478 | 10.3 | 0 | C | 2.4 | 40 | 213 | -1.5 | -1.1 | 1.4 | 1 | C |
| 2 | 475 | 8.3 | 0 | C | 2.6 | 41 | 204 | -1.7 | -0.9 | 1.5 | 1 | C |
| 3 | 470 | 7.6 | 0 | C | 2.5 | 42 | 192 | -1.8 | -0.4 | 1.6 | 1 | C |
| 4 | 465 | 7.2 | 0 | C | 2.1 | 37 | 211 | -1.4 | -0.8 | 1.3 | 1 | C |
| 5 | 459 | 6.7 | 0 | C | 1.8 | 42 | 219 | -1.0 | -0.7 | 1.2 | 0 | C |
| 6 | 452 | 6.3 | 0 | C | 1.8 | 47 | 224 | -0.8 | -0.6 | 1.3 | 1 | C |
| 7 | 448 | 5.7 | 0 | C | 1.9 | 33 | 269 | -0.0 | -1.2 | 1.1 | 1 | C |
| 8 | 456 | 5.0 | 0 | C | 3.0 | -11 | 328 | 1.5 | -1.0 | -0.1 | 2 | C |
| 9 | 458 | 4.9 | 0 | C | 4.1 | 22 | 202 | -3.5 | -1.0 | 1.8 | 1 | C |
| 10 | 450 | 4.8 | 0 | C | 3.6 | 22 | 248 | -0.5 | -1.0 | 0.8 | 3 | C |
| 11 | 446 | 4.4 | 0 | C | 3.5 | -30 | 339 | 2.8 | -1.5 | -1.3 | 1 | C |
| 12 | 450 | 3.8 | 0 | C | 3.4 | 2 | 354 | 3.4 | -0.3 | 0.2 | 0 | C |
| 13 | 445 | 3.7 | 0 | C | 3.6 | 11 | 4 | 3.5 | 0.4 | 0.6 | 1 | C |
| 14 | 426 | 4.1 | 0 | C | 3.7 | 8 | 0 | 3.7 | 0.1 | 0.5 | 0 | C |
| 15 | 433 | 4.0 | 0 | C | 3.8 | 3 | 335 | 3.3 | -1.4 | 0.5 | 1 | C |
| 16 | 440 | 3.8 | 0 | C | 3.9 | -5 | 343 | 3.6 | -1.2 | -0.1 | 1 | C |
| 17 | 440 | 3.7 | 0 | C | 4.4 | -4 | 347 | 4.2 | -1.0 | -0.2 | 1 | C |
| 18 | 445 | 3.3 | 0 | C | 4.7 | -18 | 347 | 4.3 | -1.0 | -1.4 | 1 | C |
| 19 | 444 | 3.9 | 0 | C | 5.0 | -23 | 356 | 4.4 | -0.3 | -1.9 | 1 | C |
| 20 | 444 | 4.4 | 0 | C | 6.4 | -48 | 359 | 3.8 | 0.2 | -4.2 | 3 | C |
| 21 | 445 | 4.2 | 0 | C | 6.9 | -51 | 2 | 4.1 | 0.6 | -5.0 | 2 | C |
| 22 | 446 | 3.8 | 0 | C | 6.9 | -37 | 349 | 5.2 | -0.5 | -4.1 | 2 | C |
| 23 | 433 | 3.4 | 0 | C | 6.3 | -33 | 348 | 5.0 | -0.6 | -3.5 | 1 | C |
| 24 | 426 | 3.1 | 0 | C | 5.6 | -6 | 348 | 5.0 | -1.0 | -0.7 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 441 | 2.9 | 0 | C | 5.0 | 17 | 345 | 4.6 | -1.3 | 1.3 | 1 | C |
| 434 | 3.2 | 0 | C | 5.4 | 24 | 350 | 4.2 | -0.8 | 1.8 | 3 | C |
| 415 | 3.4 | 0 | C | 5.5 | -2 | 356 | 5.5 | -0.4 | -0.2 | 0 | C |
| 409 | 3.2 | 0 | C | 5.8 | -20 | 354 | 5.2 | -0.6 | -1.9 | 1 | C |
| 423 | 3.2 | 0 | C | 5.9 | -3 | 335 | 4.6 | -2.2 | -0.1 | 3 | C |
| 432 | 3.3 | 0 | C | 5.8 | 30 | 315 | 3.4 | -3.0 | 3.3 | 1 | C |
| 428 | 3.2 | 0 | C | 6.3 | 7 | 328 | 5.0 | -2.9 | 1.2 | 2 | C |
| 426 | 3.1 | 0 | C | 6.2 | -4 | 326 | 4.9 | -3.3 | 0.4 | 2 | C |
| 428 | 3.1 | 0 | C | 6.3 | 14 | 311 | 3.9 | -3.9 | 2.6 | 1 | C |
| 427 | 3.1 | 0 | C | 6.4 | -8 | 327 | 5.0 | -3.3 | 0.1 | 2 | C |
| 426 | 3.0 | 0 | C | 6.3 | -8 | 345 | 6.0 | -1.7 | -0.3 | 1 | C |
| 419 | 2.7 | 0 | C | 6.5 | -11 | 352 | 6.3 | -1.3 | -0.9 | 1 | C |
| 426 | 2.6 | 0 | C | 6.5 | -4 | 340 | 6.0 | -2.2 | 0.2 | 1 | C |
| 443 | 2.8 | 0 | C | 6.6 | 11 | 331 | 5.6 | -2.6 | 2.0 | 1 | C |
| 448 | 3.1 | 0 | C | 6.7 | 22 | 328 | 5.1 | -2.6 | 3.1 | 1 | C |
| 460 | 3.5 | 0 | C | 6.5 | 21 | 320 | 4.3 | -3.2 | 2.7 | 2 | C |
| 449 | 3.8 | 0 | C | 6.3 | 41 | 305 | 2.6 | -3.3 | 4.4 | 2 | C |
| 438 | 4.0 | 0 | C | 7.0 | 19 | 310 | 4.1 | -4.9 | 2.4 | 1 | C |
| 431 | 4.2 | 0 | C | 6.9 | 13 | 315 | 4.6 | -4.6 | 1.5 | 1 | C |
| 425 | 4.5 | 0 | C | 6.8 | -10 | 313 | 4.5 | -4.8 | -1.4 | 1 | C |
| 444 | 4.3 | 0 | C | 7.2 | -34 | 315 | 4.0 | -3.6 | -4.2 | 2 | C |
| 458 | 4.9 | 0 | C | 7.2 | -41 | 319 | 3.9 | -2.8 | -4.8 | 2 | C |
| 455 | 6.5 | 0 | C | 6.5 | -46 | 323 | 3.5 | -2.1 | -4.7 | 2 | C |
| 458 | 10.2 | 0 | C | 4.0 | -75 | 132 | -0.4 | 0.7 | -2.4 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 454 | 9.2 | 0 | C | 5.1 | -13 | 125 | -2.5 | 3.6 | -0.6 | 3 | C |
| 2 | 454 | 6.9 | 0 | C | 6.9 | -4 | 125 | -3.8 | 5.5 | -0.2 | 2 | C |
| 3 | 462 | 6.9 | 0 | C | 6.6 | 11 | 117 | -2.7 | 5.4 | 1.3 | 2 | C |
| 4 | 464 | 7.0 | 0 | C | 6.2 | 7 | 132 | -3.4 | 3.8 | 0.5 | 3 | C |
| 5 | 469 | 6.9 | 0 | C | 5.8 | -1 | 124 | -2.7 | 3.9 | -0.4 | 3 | C |
| 6 | 472 | 6.6 | 0 | C | 6.5 | 10 | 129 | -3.8 | 4.9 | 0.5 | 1 | C |
| 7 | 480 | 6.6 | 0 | C | 6.4 | 8 | 120 | -3.0 | 5.2 | -0.1 | 1 | C |
| 8 | 485 | 6.6 | 0 | C | 6.6 | 17 | 127 | -3.6 | 5.1 | 0.7 | 2 | C |
| 9 | 484 | 7.2 | 0 | C | 6.5 | -11 | 98 | -0.7 | 4.9 | -2.5 | 3 | C |
| 10 | 484 | 7.7 | 0 | C | 6.5 | 25 | 125 | -3.0 | 4.7 | 1.0 | 2 | C |
| 11 | 482 | 8.0 | 0 | C | 7.1 | -26 | 107 | -1.5 | 4.0 | -3.9 | 4 | C |
| 12 | 478 | 8.0 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 473 | 8.4 | 0 | C | 6.8 | 13 | 137 | -3.3 | 3.3 | 0.1 | 5 | C |
| 14 | 463 | 8.5 | 0 | C | 7.5 | -10 | 54 | 3.2 | 4.0 | -2.1 | 5 | C |
| 15 | 477 | 8.6 | 0 | C | 7.8 | 1 | 83 | 0.7 | 5.6 | -1.2 | 5 | C |
| 16 | 492 | 8.8 | 0 | C | 8.2 | 25 | 136 | -4.9 | 5.3 | 2.4 | 3 | C |
| 17 | 494 | 9.8 | 0 | C | 8.3 | 7 | 116 | -3.4 | 6.9 | 0.1 | 3 | C |
| 18 | 491 | 9.3 | 0 | C | 9.2 | 6 | 117 | -3.8 | 7.5 | 0.5 | 3 | C |
| 19 | 495 | 8.7 | 0 | C | 9.7 | -3 | 115 | -3.9 | 8.3 | -0.4 | 2 | C |
| 20 | 500 | 8.6 | 0 | C | 10.2 | 7 | 105 | -2.6 | 9.3 | 1.6 | 2 | C |
| 21 | 508 | 9.6 | 0 | C | 9.0 | 1 | 128 | -4.9 | 6.3 | 0.8 | 4 | C |
| 22 | 507 | 9.5 | 0 | C | 8.6 | 11 | 122 | -4.1 | 6.4 | 2.2 | 3 | C |
| 23 | 503 | 9.6 | 0 | C | 7.4 | -9 | 120 | -3.0 | 5.1 | -0.4 | 4 | C |
| 24 | 498 | 10.0 | 0 | C | 6.2 | 13 | 157 | -3.9 | 1.6 | 1.2 | 4 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 502 | 10.8 | 0 | C | 7.2 | -9 | 230 | -3.4 | -4.0 | -1.2 | 4 | C |
| 495 | 11.3 | 0 | C | 8.3 | -15 | 164 | -6.7 | 2.1 | -1.7 | 4 | C |
| 492 | 10.5 | 0 | C | 8.0 | -6 | 147 | -5.6 | 3.6 | -0.6 | 4 | C |
| 491 | 10.4 | 0 | C | 8.0 | -23 | 151 | -5.8 | 3.1 | -3.0 | 2 | C |
| 494 | 10.4 | 0 | C | 8.2 | -24 | 206 | -6.1 | -3.3 | -2.8 | 3 | C |
| 485 | 10.5 | 0 | C | 8.4 | -16 | 155 | -6.6 | 2.8 | -2.5 | 3 | C |
| 487 | 10.2 | 0 | C | 8.5 | 13 | 141 | -5.7 | 4.8 | 0.7 | 3 | C |
| 495 | 9.1 | 72 | J | 9.0 | -19 | 154 | -6.6 | 2.5 | -3.2 | 4 | J |
| 507 | 9.9 | 87 | J | 8.8 | -15 | 139 | -5.6 | 4.1 | -3.3 | 4 | J |
| 514 | 9.2 | 98 | J | 8.5 | -20 | 129 | -4.7 | 4.7 | -4.3 | 3 | J |
| 516 | 10.1 | 112 | J | 6.9 | -12 | 126 | -3.6 | 4.3 | -2.8 | 3 | J |
| 526 | 9.5 | 140 | J | 6.7 | -15 | 123 | -2.5 | 3.3 | -2.4 | 5 | J |
| 517 | 9.1 | 109 | J | 8.1 | 43 | 141 | -3.5 | 4.0 | 3.2 | 5 | J |
| 507 | 9.5 | 114 | J | 8.0 | 48 | 131 | -3.1 | 4.8 | 4.0 | 4 | J |
| 507 | 10.1 | 138 | J | 7.5 | 43 | 196 | -4.1 | -0.2 | 4.1 | 5 | J |
| 506 | 10.8 | 127 | J | 8.0 | -19 | 127 | -3.8 | 4.5 | -3.0 | 5 | J |
| 512 | 10.7 | 121 | J | 8.2 | -14 | 120 | -2.5 | 4.1 | -1.7 | 6 | J |
| 502 | 11.0 | 116 | J | 7.8 | -28 | 122 | -3.2 | 4.9 | -3.5 | 4 | J |
| 495 | 10.4 | 110 | J | 8.1 | -13 | 123 | -3.8 | 5.9 | -1.6 | 4 | J |
| 480 | 8.5 | 83 | J | 8.4 | 6 | 126 | -4.4 | 6.0 | 1.1 | 3 | J |
| 482 | 8.7 | 112 | J | 6.8 | 22 | 146 | -4.2 | 2.7 | 2.3 | 4 | J |
| 467 | 7.4 | 66 | J | 7.2 | 18 | 165 | -6.2 | 1.4 | 2.2 | 2 | J |
| 482 | 8.2 | 88 | J | 7.0 | 2 | 150 | -4.9 | 2.8 | 0.5 | 4 | J |
| 492 | 7.8 | 110 | J | 6.6 | -7 | 164 | -4.7 | 1.4 | -0.5 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 488 | 8.1 | 0 | C | 6.9 | 16 | 120 | -3.1 | 5.3 | 2.2 | 2 | C |
| 2 | 484 | 8.5 | 0 | C | 7.3 | 24 | 120 | -3.1 | 5.3 | 3.0 | 2 | C |
| 3 | 484 | 8.7 | 0 | C | 7.6 | -6 | 147 | -5.9 | 3.8 | -0.7 | 2 | C |
| 4 | 492 | 8.7 | 0 | C | 6.7 | 9 | 91 | -0.1 | 4.4 | 0.5 | 5 | C |
| 5 | 487 | 8.7 | 0 | C | 6.1 | 28 | 132 | -3.0 | 3.6 | 2.0 | 3 | C |
| 6 | 493 | 7.5 | 83 | J | 6.6 | -41 | 187 | -4.9 | -1.2 | -4.1 | 1 | J |
| 7 | 503 | 7.4 | 94 | J | 6.3 | -4 | 120 | -2.3 | 3.9 | -1.1 | 4 | J |
| 8 | 489 | 7.5 | 137 | J | 5.6 | -17 | 155 | -4.2 | 1.6 | -1.9 | 3 | J |
| 9 | 507 | 6.8 | 94 | J | 5.8 | 39 | 111 | -1.4 | 4.5 | 2.0 | 3 | J |
| 10 | 515 | 6.8 | 71 | J | 6.1 | 37 | 72 | 1.3 | 4.6 | 1.7 | 3 | J |
| 11 | 503 | 7.3 | 74 | J | 5.9 | 13 | 100 | -0.8 | 4.7 | -0.5 | 3 | J |
| 12 | 503 | 7.3 | 72 | J | 5.9 | 1 | 101 | -0.8 | 3.9 | -1.3 | 4 | J |
| 13 | 498 | 7.3 | 78 | J | 5.8 | -40 | 114 | -1.8 | 2.7 | -4.7 | 1 | J |
| 14 | 494 | 7.2 | 79 | J | 5.9 | -31 | 114 | -1.9 | 3.3 | -3.9 | 2 | J |
| 15 | 479 | 7.2 | 0 | C | 5.7 | 35 | 17 | 4.3 | 2.0 | 2.7 | 2 | J |
| 16 | 467 | 7.1 | 0 | C | 5.5 | 10 | 111 | -1.3 | 3.5 | -0.0 | 4 | J |
| 17 | 503 | 6.9 | 58 | J | 6.2 | 64 | 95 | -0.2 | 2.7 | 4.1 | 4 | J |
| 18 | 484 | 7.3 | 92 | J | 5.5 | -37 | 151 | -3.6 | 1.8 | -3.2 | 2 | J |
| 19 | 492 | 8.0 | 84 | J | 5.6 | 8 | 100 | -0.8 | 4.6 | 0.6 | 3 | J |
| 20 | 482 | 7.3 | 74 | J | 6.3 | 57 | 129 | -1.8 | 2.0 | 4.4 | 3 | J |
| 21 | 468 | 7.8 | 58 | J | 6.1 | 19 | 181 | -4.9 | -0.2 | 1.7 | 3 | J |
| 22 | 485 | 7.2 | 58 | J | 5.9 | 11 | 97 | -0.5 | 4.4 | 1.3 | 4 | J |
| 23 | 512 | 7.3 | 54 | J | 6.4 | 22 | 54 | 3.4 | 4.5 | 2.8 | 1 | J |
| 24 | 454 | 8.3 | 0 | C | 5.7 | -22 | 179 | -4.5 | 0.2 | -1.8 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 446 | 8.4 | 0 | C | 5.1 | 6 | 182 | -4.4 | -0.2 | 0.5 | 2 | C |
| 452 | 8.0 | 0 | C | 5.1 | -7 | 164 | -1.8 | 0.5 | -0.2 | 4 | C |
| 443 | 5.5 | 94 | J | 4.8 | 36 | 171 | -2.2 | 0.4 | 1.6 | 4 | J |
| 485 | 7.6 | 90 | J | 5.6 | 37 | 138 | -2.7 | 2.5 | 2.6 | 3 | J |
| 446 | 8.1 | 0 | C | 5.3 | -7 | 158 | -4.2 | 1.7 | -0.7 | 2 | C |
| 446 | 8.2 | 0 | C |  |  |  |  |  |  |  |  |
| 471 | 7.2 | 62 | J | 5.7 | -18 | 123 | -2.0 | 2.7 | -1.8 | 4 | J |
| 467 | 7.4 | 66 | J | 5.9 | -9 | 97 | -0.6 | 4.6 | -2.0 | 3 | J |
| 450 | 6.7 | 72 | J | 5.8 | -24 | 130 | -2.8 | 2.7 | -2.8 | 3 | J |
| 455 | 6.7 | 66 | J | 5.9 | -13 | 101 | -1.0 | 4.6 | -2.8 | 2 | J |
| 452 | 6.5 | 63 | J | 5.8 | 18 | 99 | -0.8 | 5.3 | -0.1 | 2 | J |
| 440 | 5.9 | 61 | J | 5.7 | -2 | 111 | -1.9 | 4.6 | -1.8 | 2 | J |
| 416 | 5.3 | 44 | J | 5.8 | 2 | 141 | -4.2 | 3.3 | -0.9 | 2 | J |
| 407 | 4.6 | 39 | J | 5.7 | 10 | 135 | -3.8 | 3.9 | -0.2 | 2 | J |
| 401 | 6.1 | 52 | J | 4.3 | 42 | 131 | -2.1 | 3.1 | 2.2 | 1 | J |
| 405 | 6.5 | 48 | J | 4.4 | 40 | 121 | -1.7 | 3.3 | 2.2 | 1 | J |
| 408 | 7.4 | 0 | C | 4.5 | 1 | 163 | -4.1 | 1.3 | -0.1 | 1 | C |
| 392 | 7.1 | 54 | J | 4.6 | 42 | 143 | -2.7 | 2.3 | 2.9 | 1 | J |
| 388 | 7.3 | 64 | J | 5.2 | 20 | 138 | -3.2 | 2.9 | 1.5 | 2 | J |
| 391 | 7.8 | 61 | J | 5.5 | 5 | 119 | -2.5 | 4.4 | 0.6 | 2 | J |
| 393 | 7.8 | 45 | J | 5.4 | 4 | 110 | -1.6 | 4.3 | 0.6 | 3 | J |
| 379 | 7.9 | 42 | J | 5.3 | -4 | 133 | -3.5 | 3.7 | -0.0 | 1 | J |
| 379 | 7.9 | 39 | J | 4.9 | -15 | 126 | -2.4 | 3.4 | -0.8 | 2 | J |
| 371 | 8.2 | 28 | J | 5.6 | -25 | 158 | -4.5 | 2.0 | -2.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 8.6 | 43 | J | 5.9 | -20 | 136 | -3.9 | 3.8 | -1.7 | 2 | J |
| 2 | 378 | 7.1 | 39 | J | 6.4 | -31 | 155 | -4.7 | 2.3 | -3.1 | 1 | J |
| 3 | 375 | 6.1 | 36 | J | 6.0 | -28 | 183 | -5.3 | -0.3 | -2.8 | 1 | J |
| 4 | 383 | 6.7 | 0 | C | 6.6 | -29 | 145 | -4.7 | 3.1 | -3.4 | 0 | J |
| 5 | 382 | 8.1 | 53 | J | 6.0 | -13 | 126 | -2.8 | 3.7 | -1.5 | 3 | J |
| 6 | 388 | 7.9 | 41 | J | 5.1 | -15 | 75 | 1.2 | 4.2 | -2.0 | 2 | J |
| 7 | 373 | 7.8 | 34 | J | 4.7 | -19 | 107 | -1.0 | 2.9 | -1.8 | 3 | J |
| 8 | 372 | 7.5 | 75 | J | 4.7 | -8 | 127 | -2.6 | 3.2 | -1.5 | 2 | J |
| 9 | 369 | 6.9 | 59 | J | 4.7 | 0 | 159 | -3.6 | 1.3 | -0.4 | 3 | J |
| 10 | 364 | 7.7 | 55 | J | 5.3 | -9 | 183 | -4.9 | -0.5 | -0.7 | 2 | J |
| 11 | 368 | 8.7 | 46 | J | 5.2 | -15 | 114 | -1.9 | 3.7 | -2.6 | 2 | J |
| 12 | 375 | 8.2 | 34 | J | 5.3 | 3 | 62 | 2.3 | 4.2 | -1.2 | 2 | J |
| 13 | 375 | 8.5 | 31 | J | 5.1 | -3 | 63 | 2.2 | 4.0 | -1.6 | 2 | J |
| 14 | 373 | 8.2 | 32 | J | 4.7 | -7 | 86 | 0.3 | 3.9 | -1.8 | 2 | J |
| 15 | 367 | 8.2 | 43 | J | 4.7 | 0 | 96 | -0.5 | 4.3 | -1.1 | 1 | J |
| 16 | 367 | 7.9 | 33 | J | 5.4 | -7 | 74 | 1.5 | 4.8 | -1.7 | 1 | J |
| 17 | 347 | 9.0 | 0 | C | 5.3 | -7 | 60 | 2.3 | 3.9 | -1.1 | 2 | C |
| 18 | 376 | 7.6 | 32 | J | 5.5 | 0 | 79 | 1.1 | 5.4 | -0.4 | 1 | J |
| 19 | 363 | 7.5 | 44 | J | 4.5 | -49 | 133 | -1.5 | 1.6 | -2.6 | 3 | J |
| 20 | 363 | 6.7 | 39 | J | 4.3 | -31 | 104 | -0.7 | 2.9 | -1.7 | 3 | J |
| 21 | 341 | 8.0 | 0 | C | 5.0 | -23 | 84 | 0.4 | 4.5 | -1.6 | 1 | C |
| 22 | 340 | 8.3 | 0 | C | 4.9 | 2 | 82 | 0.6 | 4.3 | 0.5 | 2 | C |
| 23 | 352 | 7.1 | 36 | J | 4.2 | 47 | 100 | -0.4 | 1.9 | 2.4 | 3 | J |
| 24 | 361 | 6.3 | 34 | J | 4.4 | -29 | 82 | 0.5 | 3.5 | -1.6 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 358 | 6.3 | 27 | J | 4.2 | -22 | 90 | 0.0 | 3.9 | -1.3 | 1 | J |
| 339 | 7.2 | 0 | C | 4.1 | -8 | 128 | -2.1 | 2.7 | -0.4 | 2 | J |
| 340 | 5.9 | 17 | J | 4.1 | -33 | 97 | -0.4 | 3.1 | -2.1 | 1 | J |
| 341 | 6.2 | 18 | J | 3.8 | -35 | 108 | -0.9 | 2.6 | -2.2 | 2 | J |
| 349 | 6.0 | 19 | J | 4.0 | -17 | 81 | 0.6 | 3.3 | -1.5 | 1 | J |
| 341 | 6.3 | 19 | J | 4.0 | -26 | 76 | 0.8 | 2.9 | -2.2 | 1 | J |
| 328 | 6.6 | 0 | C | 4.1 | -31 | 76 | 0.8 | 2.7 | -2.6 | 1 | C |
| 330 | 5.4 | 16 | J | 4.0 | -37 | 116 | -1.3 | 2.0 | -2.9 | 1 | C |
| 329 | 5.6 | 26 | J | 3.9 | 5 | 139 | -2.8 | 2.4 | -0.4 | 1 | C |
| 324 | 6.3 | 0 | C | 4.2 | -20 | 146 | -3.2 | 1.5 | -2.0 | 1 | C |
| 325 | 6.2 | 0 | C | 4.3 | -30 | 145 | -2.9 | 1.2 | -2.6 | 1 | C |
| 327 | 6.2 | 22 | J | 3.9 | -7 | 136 | -2.4 | 2.1 | -1.2 | 2 | J |
| 332 | 5.3 | 15 | J | 4.2 | 26 | 114 | -1.5 | 3.8 | 0.6 | 1 | J |
| 328 | 6.6 | 17 | J | 3.9 | 36 | 124 | -1.8 | 3.2 | 1.4 | 1 | J |
| 319 | 7.3 | 0 | C | 3.7 | 42 | 133 | -1.8 | 2.5 | 1.8 | 1 | C |
| 307 | 9.2 | 0 | C | 3.7 | -13 | 136 | -2.4 | 2.1 | -1.3 | 1 | C |
| 298 | 11.4 | 0 | C | 3.6 | -37 | 135 | -2.0 | 1.6 | -2.4 | 1 | C |
| 312 | 12.6 | 19 | J | 4.2 | -15 | 130 | -2.4 | 2.8 | -1.3 | 1 | J |
| 312 | 15.9 | 16 | J | 3.3 | -42 | 129 | -1.3 | 1.5 | -1.9 | 2 | J |
| 312 | 15.0 | 18 | J | 3.9 | -20 | 128 | -1.9 | 2.4 | -1.1 | 2 | J |
| 290 | 15.3 | 0 | C | 5.1 | -16 | 139 | -3.7 | 3.2 | -1.2 | 0 | C |
| 309 | 15.9 | 19 | J | 4.6 | -6 | 138 | -3.3 | 3.0 | -0.3 | 1 | J |
| 310 | 16.2 | 19 | J | 4.2 | -6 | 126 | -2.2 | 3.0 | -0.2 | 2 | J |
| 311 | 16.9 | 19 | J | 3.8 | 12 | 119 | -1.7 | 2.9 | 0.9 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 311 | 16.1 | 16 | J | 3.0 | 15 | 130 | -1.7 | 2.0 | 0.8 | 1 | J |
| 2 | 308 | 15.1 | 15 | J | 4.7 | 28 | 124 | -2.2 | 3.3 | 2.2 | 1 | J |
| 3 | 311 | 16.4 | 20 | J | 6.1 | 30 | 129 | -3.2 | 4.0 | 2.8 | 2 | J |
| 4 | 321 | 25.3 | 33 | J | 5.1 | -6 | 141 | -2.9 | 2.3 | -0.6 | 3 | J |
| 5 | 332 | 38.6 | 21 | J | 4.7 | 41 | 162 | -3.2 | 1.4 | 2.8 | 2 | J |
| 6 | 300 | 43.3 | 0 | C | 4.0 | 24 | 195 | -3.5 | -0.6 | 1.8 | 0 | J |
| 7 | 339 | 53.2 | 19 | J | 4.9 | -59 | 312 | 1.7 | -2.7 | -3.6 | 1 | J |
| 8 | 341 | 63.2 | 31 | J | 5.5 | -80 | 19 | 0.5 | -0.7 | -3.0 | 5 | J |
| 9 | 365 | 34.2 | 61 | J | 14.5 | 55 | 303 | 3.7 | -2.5 | 11.0 | 9 | J |
| 10 | 420 | 18.6 | 185 | J | 12.3 | -17 | 303 | 4.9 | -8.0 | -0.1 | 8 | J |
| 11 | 456 | 13.5 | 205 | J | 10.0 | -8 | 309 | 5.4 | -6.7 | 1.2 | 5 | J |
| 12 | 469 | 12.9 | 213 | J | 10.0 | -2 | 302 | 4.3 | -6.5 | 2.1 | 6 | J |
| 13 | 452 | 12.5 | 235 | J | 9.8 | 10 | 301 | 4.3 | -6.3 | 3.8 | 5 | J |
| 14 | 462 | 14.9 | 0 | C | 9.6 | 18 | 309 | 5.0 | -5.1 | 4.4 | 3 | C |
| 15 | 459 | 13.7 | 0 | C | 9.7 | -2 | 302 | 4.0 | -6.3 | 1.4 | 5 | C |
| 16 | 451 | 14.3 | 0 | C | 10.1 | -9 | 309 | 5.6 | -7.1 | 0.2 | 4 | C |
| 17 | 448 | 15.0 | 0 | C | 10.4 | 3 | 300 | 4.5 | -7.5 | 1.6 | 4 | C |
| 18 | 448 | 14.3 | 0 | C | 9.1 | 1 | 331 | 6.5 | -3.6 | 0.5 | 4 | C |
| 19 | 466 | 10.4 | 131 | J | 8.1 | 31 | 320 | 4.2 | -3.4 | 3.4 | 5 | J |
| 20 | 468 | 10.0 | 126 | J | 8.0 | 47 | 309 | 3.3 | -4.1 | 5.6 | 2 | J |
| 21 | 481 | 10.5 | 128 | J | 8.2 | 57 | 285 | 1.0 | -4.0 | 5.8 | 4 | J |
| 22 | 463 | 10.3 | 124 | J | 8.1 | 48 | 330 | 3.9 | -2.6 | 4.9 | 4 | J |
| 23 | 458 | 9.4 | 122 | J | 7.1 | 8 | 316 | 4.6 | -4.5 | 0.6 | 3 | J |
| 24 | 477 | 9.3 | 120 | J | 7.5 | 23 | 312 | 3.6 | -4.2 | 2.0 | 5 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 472 | 9.2 | 133 | J | 7.1 | 7 | 318 | 4.8 | -4.4 | 0.6 | 3 | J |
| 479 | 9.6 | 153 | J | 7.9 | -19 | 324 | 5.2 | -3.8 | -2.2 | 4 | J |
| 466 | 9.7 | 106 | J | 8.3 | -23 | 335 | 6.8 | -3.3 | -3.1 | 2 | J |
| 481 | 10.1 | 0 | C | 9.4 | -20 | 337 | 8.0 | -3.6 | -2.9 | 2 | J |
| 462 | 8.9 | 68 | J | 9.0 | -25 | 347 | 7.4 | -2.2 | -3.3 | 3 | J |
| 459 | 8.3 | 60 | J | 8.8 | -23 | 331 | 7.0 | -4.5 | -2.6 | 1 | J |
| 472 | 7.8 | 79 | J | 9.3 | -13 | 315 | 6.3 | -6.7 | -0.5 | 2 | J |
| 444 | 7.3 | 86 | J | 8.5 | -15 | 334 | 7.0 | -3.9 | -1.1 | 3 | J |
| 465 | 8.1 | 109 | J | 8.2 | 7 | 315 | 5.2 | -4.7 | 2.5 | 3 | J |
| 461 | 8.8 | 105 | J | 8.0 | -3 | 311 | 3.5 | -3.9 | 1.1 | 6 | J |
| 450 | 9.7 | 0 | C | 8.6 | -2 | 275 | 0.7 | -7.2 | 2.4 | 4 | J |
| 461 | 9.8 | 0 | C | 8.8 | -26 | 284 | 1.7 | -7.6 | -0.9 | 3 | C |
| 454 | 8.6 | 107 | J | 8.2 | -8 | 313 | 4.1 | -4.4 | 0.7 | 5 | J |
| 444 | 7.7 | 73 | J | 8.2 | 4 | 328 | 6.4 | -3.7 | 1.8 | 3 | J |
| 440 | 10.5 | 0 | C | 8.3 | 15 | 309 | 4.3 | -4.6 | 3.3 | 4 | C |
| 445 | 10.8 | 0 | C | 7.7 | -5 | 317 | 4.6 | -4.3 | 0.4 | 4 | C |
| 439 | 10.2 | 0 | C | 7.6 | -36 | 315 | 3.6 | -4.1 | -3.1 | 3 | C |
| 441 | 7.2 | 98 | J | 7.9 | -19 | 310 | 4.4 | -5.4 | -1.8 | 3 | J |
| 454 | 7.2 | 104 | J | 8.3 | -2 | 298 | 3.6 | -6.8 | 0.0 | 3 | J |
| 468 | 7.1 | 89 | J | 8.6 | -4 | 283 | 1.8 | -8.0 | -0.6 | 3 | J |
| 461 | 7.7 | 107 | J | 7.9 | 23 | 313 | 4.0 | -4.3 | 2.3 | 5 | J |
| 472 | 8.5 | 157 | J | 6.5 | -33 | 331 | 3.2 | -1.6 | -2.4 | 5 | J |
| 471 | 8.7 | 132 | J | 7.1 | -39 | 52 | 2.7 | 3.7 | -3.4 | 4 | J |
| 463 | 9.6 | 0 | C | 6.2 | -30 | 28 | 3.7 | 2.1 | -2.3 | 3 | C |

JUL. 13, 1981 194

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 461 | 8.3 | 0 | C | 6.2 | -42 | 351 | 3.6 | -0.5 | -3.3 | 3 | C |
| 2 | 459 | 7.4 | 0 | C | 6.6 | -16 | 326 | 4.4 | -3.0 | -1.5 | 3 | C |
| 3 | 466 | 6.8 | 61 | J | 6.5 | 20 | 335 | 5.1 | -2.3 | 2.1 | 3 | J |
| 4 | 463 | 7.1 | 0 | C | 6.3 | 22 | 308 | 3.1 | -3.7 | 2.4 | 2 | C |
| 5 | 455 | 5.6 | 35 | J | 5.6 | 63 | 336 | 1.7 | -0.2 | 3.7 | 4 | J |
| 6 | 486 | 6.2 | 92 | J | 5.6 | 58 | 311 | 1.4 | -0.9 | 3.7 | 4 | J |
| 7 | 459 | 5.8 | 53 | J | 5.7 | 2 | 343 | 4.6 | -1.3 | 0.5 | 3 | J |
| 8 | 484 | 5.7 | 101 | J | 4.7 | -16 | 317 | 2.2 | -2.2 | -0.2 | 4 | J |
| 9 | 490 | 5.5 | 108 | J | 5.1 | 38 | 318 | 2.3 | -1.2 | 2.9 | 3 | J |
| 10 | 486 | 5.3 | 120 | J | 5.0 | 37 | 330 | 2.9 | -0.7 | 3.0 | 3 | J |
| 11 | 494 | 5.3 | 130 | J | 4.4 | 35 | 341 | 2.3 | -0.1 | 1.9 | 3 | J |
| 12 | 493 | 4.8 | 89 | J | 4.3 | -43 | 324 | 2.0 | -2.1 | -1.6 | 3 | J |
| 13 | 511 | 4.3 | 69 | J | 5.1 | 25 | 258 | -0.8 | -2.8 | 2.9 | 3 | J |
| 14 | 475 | 5.0 | 0 | C | 4.8 | 39 | 298 | 1.4 | -1.7 | 3.1 | 3 | C |
| 15 | 477 | 4.8 | 0 | C | 4.9 | 47 | 258 | -0.6 | -1.8 | 3.7 | 2 | C |
| 16 | 473 | 4.7 | 0 | C | 4.5 | -18 | 312 | 1.7 | -2.0 | -0.4 | 3 | C |
| 17 | 470 | 4.8 | 0 | C | 4.7 | -37 | 336 | 3.4 | -1.9 | -2.5 | 1 | C |
| 18 | 471 | 4.9 | 0 | C | 4.5 | 15 | 299 | 1.6 | -2.7 | 1.2 | 3 | C |
| 19 | 470 | 4.6 | 0 | C | 4.6 | -11 | 285 | 0.9 | -3.3 | -0.5 | 2 | C |
| 20 | 469 | 4.1 | 0 | C | 4.7 | -36 | 311 | 2.4 | -2.7 | -2.6 | 1 | C |
| 21 | 458 | 4.3 | 0 | C | 4.3 | -28 | 309 | 2.3 | -2.8 | -2.0 | 1 | C |
| 22 | 453 | 4.3 | 0 | C | 4.1 | -31 | 313 | 2.2 | -2.2 | -2.1 | 1 | C |
| 23 | 446 | 4.6 | 0 | C | 4.1 | 8 | 328 | 2.7 | -1.7 | 0.3 | 2 | C |
| 24 | 436 | 5.0 | 0 | C | 4.5 | 0 | 283 | 0.8 | -3.4 | -0.2 | 3 | C |

JUL. 14, 1981 195

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 426 | 5.4 | 0 | C | 4.1 | -29 | 306 | 1.8 | -2.4 | -1.7 | 2 | C |
| 422 | 5.7 | 0 | C | 4.2 | -6 | 309 | 2.5 | -3.1 | -0.4 | 1 | C |
| 423 | 5.6 | 0 | C | 4.1 | -16 | 339 | 3.4 | -1.4 | -1.0 | 1 | C |
| 422 | 5.5 | 0 | C | 3.7 | -53 | 322 | 1.4 | -1.3 | -2.2 | 2 | C |
| 415 | 5.8 | 0 | C | 4.4 | -32 | 345 | 3.0 | -1.0 | -1.8 | 2 | C |
| 414 | 6.2 | 0 | C | 4.6 | -30 | 333 | 3.2 | -2.1 | -1.7 | 2 | C |
| 417 | 6.3 | 0 | C | 3.8 | 11 | 224 | -2.4 | -2.1 | 1.2 | 1 | C |
| 414 | 6.3 | 0 | C | 4.3 | 18 | 224 | -2.8 | -2.3 | 2.1 | 1 | C |
| 410 | 6.2 | 0 | C | 4.6 | 2 | 211 | -3.9 | -2.2 | 0.9 | 1 | C |
| 407 | 6.6 | 0 | C | 4.2 | 15 | 229 | -2.4 | -2.3 | 1.9 | 1 | C |
| 405 | 7.1 | 0 | C | 4.1 | -20 | 235 | -1.8 | -2.8 | -0.2 | 2 | C |
| 412 | 7.3 | 0 | C | 4.2 | 45 | 199 | -2.5 | 0.2 | 2.8 | 2 | C |
| 415 | 6.9 | 0 | C | 4.5 | 25 | 204 | -3.1 | -0.8 | 2.0 | 2 | C |
| 411 | 6.3 | 0 | C | 3.9 | 0 | 229 | -2.5 | -2.8 | 0.9 | 1 | C |
| 409 | 5.9 | 0 | C | 4.9 | -64 | 350 | 1.9 | -1.5 | -3.7 | 1 | C |
| 406 | 6.2 | 0 | C | 4.4 | -51 | 349 | 2.5 | -1.2 | -3.0 | 1 | C |
| 404 | 6.2 | 0 | C | 4.8 | 23 | 244 | -1.6 | -2.9 | 2.1 | 2 | C |
| 400 | 6.2 | 0 | C | 5.1 | 4 | 218 | -3.9 | -2.9 | 0.7 | 1 | C |
| 401 | 6.4 | 0 | C | 3.7 | 26 | 250 | -0.9 | -2.4 | 1.4 | 2 | C |
| 395 | 7.2 | 0 | C | 2.7 | 3 | 258 | -0.4 | -2.0 | 0.1 | 2 | C |
| 390 | 7.0 | 0 | C | 3.0 | 36 | 335 | 1.7 | -0.8 | 1.3 | 2 | C |
| 392 | 6.2 | 0 | C | 3.6 | 11 | 352 | 2.5 | -0.4 | 0.5 | 2 | C |
| 391 | 6.2 | 0 | C | 3.2 | -44 | 356 | 0.8 | -0.0 | -0.7 | 3 | C |
| 400 | 6.3 | 0 | C | 3.6 | 15 | 267 | -0.1 | -2.2 | 0.5 | 2 | C |

**ORIGINAL PAGE IS OF POOR QUALITY**

07/15/81 – 07/22/81

JUL. 15, 1981 196

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 401 | 6.2 | 0 | C | 2.9 | 17 | 310 | 1.4 | -1.7 | 0.6 | 1 | C |
| 2 | 397 | 6.1 | 0 | C | 3.2 | -22 | 307 | 0.9 | -1.2 | -0.6 | 2 | C |
| 3 | 395 | 5.7 | 0 | C | 2.7 | 5 | 254 | -0.6 | -2.0 | 0.3 | 1 | C |
| 4 | 396 | 5.1 | 0 | C | 3.2 | 1 | 206 | -2.4 | -1.2 | 0.2 | 2 | C |
| 5 | 397 | 4.8 | 0 | C | 3.4 | -8 | 214 | -2.8 | -1.9 | -0.2 | 0 | C |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 368 | 5.1 | 0 | C | | | | | | | | |
| 9 | 368 | 5.1 | 0 | C | 2.7 | -16 | 262 | -0.3 | -2.6 | 0.1 | 1 | C |
| 10 | 362 | 5.3 | 0 | C | 2.6 | -2 | 222 | -1.6 | -1.3 | 0.4 | 1 | C |
| 11 | 356 | 5.3 | 0 | C | 2.6 | -12 | 185 | -2.5 | -0.4 | -0.4 | 1 | C |
| 12 | 359 | 5.3 | 0 | C | 3.6 | 32 | 313 | 2.1 | -1.4 | 2.7 | 0 | C |
| 13 | 341 | 4.7 | 0 | C | 3.4 | 18 | 296 | 1.4 | -2.3 | 2.0 | 0 | C |
| 14 | 345 | 5.9 | 0 | C | | | | | | | | |
| 15 | 345 | 5.9 | 0 | C | 3.0 | -13 | 235 | -1.6 | -2.4 | 0.0 | 0 | C |
| 16 | 346 | 6.0 | 0 | C | 3.2 | -11 | 228 | -2.0 | -2.3 | -0.0 | 1 | C |
| 17 | 346 | 6.4 | 0 | C | 3.2 | -8 | 217 | -2.5 | -1.9 | -0.1 | 1 | C |
| 18 | 340 | 6.0 | 0 | C | 3.7 | 18 | 229 | -2.2 | -2.4 | 1.4 | 1 | C |
| 19 | 343 | 6.0 | 0 | C | 3.9 | 6 | 233 | -2.3 | -3.0 | 0.6 | 1 | C |
| 20 | 341 | 6.0 | 0 | C | 4.0 | -3 | 232 | -2.4 | -3.1 | -0.1 | 0 | C |
| 21 | 323 | 5.9 | 0 | C | 3.7 | 54 | 255 | -0.6 | -2.2 | 3.0 | 0 | C |
| 22 | 323 | 5.9 | 0 | C | 3.8 | 45 | 274 | 0.2 | -2.6 | 2.4 | 1 | C |
| 23 | 317 | 6.6 | 0 | C | 3.8 | -15 | 276 | 0.4 | -3.2 | -1.0 | 2 | C |
| 24 | 317 | 6.6 | 0 | C | 3.7 | -34 | 293 | 1.1 | -2.6 | -2.1 | 1 | C |

JUL. 17, 1981 198

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 10.5 | 0 | C | 6.9 | -1 | 311 | 4.1 | -4.7 | -0.2 | 3 | C |
| 2 | 352 | 11.5 | 0 | C | 6.7 | 21 | 312 | 4.1 | -4.5 | 2.5 | 1 | C |
| 3 | 346 | 12.1 | 0 | C | 6.5 | 20 | 322 | 4.7 | -3.5 | 2.4 | 1 | C |
| 4 | 343 | 12.7 | 0 | C | 7.0 | 14 | 330 | 5.8 | -3.2 | 2.1 | 1 | C |
| 5 | 342 | 13.0 | 0 | C | 7.6 | 17 | 326 | 5.9 | -3.6 | 2.9 | 1 | C |
| 6 | 348 | 13.7 | 0 | C | 6.8 | 13 | 321 | 4.8 | -3.5 | 2.3 | 2 | C |
| 7 | 352 | 14.1 | 0 | C | 7.4 | -6 | 293 | 2.7 | -6.4 | 1.0 | 2 | C |
| 8 | 357 | 14.0 | 0 | C | 8.8 | -38 | 351 | 6.6 | -2.6 | -4.7 | 1 | C |
| 9 | 393 | 22.1 | 0 | C | 12.9 | -43 | 325 | 7.1 | -7.4 | -5.9 | 5 | C |
| 10 | 414 | 28.1 | 0 | C | 15.4 | -17 | 302 | 5.5 | -9.4 | 0.3 | 10 | C |
| 11 | 420 | 26.7 | 0 | C | 15.3 | -56 | 347 | 7.5 | -5.8 | -9.7 | 6 | C |
| 12 | 422 | 25.3 | 0 | C | 16.5 | -61 | 323 | 6.3 | -9.8 | -11.2 | 2 | C |
| 13 | 426 | 19.5 | 0 | C | | | | | | | | |
| 14 | 426 | 19.5 | 0 | C | 15.5 | -1 | 288 | 4.3 | -12.8 | 4.5 | 5 | C |
| 15 | 443 | 19.6 | 0 | C | 15.1 | 10 | 276 | 1.4 | -12.4 | 6.4 | 4 | C |
| 16 | 434 | 17.3 | 0 | C | 15.5 | 31 | 281 | 2.5 | -10.4 | 10.7 | 2 | C |
| 17 | 425 | 15.5 | 0 | C | 16.2 | 35 | 284 | 3.3 | -10.7 | 11.4 | 2 | C |
| 18 | 416 | 11.9 | 0 | C | 17.4 | 16 | 285 | 4.1 | -14.9 | 6.9 | 4 | C |
| 19 | 420 | 9.5 | 0 | C | 17.2 | -22 | 279 | 2.3 | -15.0 | -4.7 | 6 | C |
| 20 | 422 | 9.4 | 0 | C | 17.0 | -69 | 263 | -0.8 | -6.4 | -15.4 | 3 | C |
| 21 | 445 | 9.1 | 0 | C | 16.3 | -68 | 207 | -5.5 | -2.8 | -15.0 | 0 | C |
| 22 | 436 | 11.9 | 0 | C | 16.3 | -58 | 215 | -7.0 | -4.5 | -13.9 | 1 | C |
| 23 | 440 | 13.2 | 0 | C | 15.8 | -56 | 197 | -8.2 | -2.1 | -13.0 | 3 | C |
| 24 | 451 | 15.9 | 0 | C | 15.6 | -46 | 202 | -9.6 | -3.6 | -10.7 | 5 | C |

JUL. 19, 1981 200

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 398 | 5.8 | 0 | C | 8.8 | -25 | 9 | 7.8 | 1.3 | -3.7 | 1 | C |
| 2 | 401 | 5.2 | 0 | C | 9.0 | -18 | 11 | 8.4 | 1.5 | -2.8 | 0 | C |
| 3 | 392 | 5.7 | 0 | C | 9.0 | -11 | 7 | 8.7 | 1.0 | -1.8 | 1 | C |
| 4 | 382 | 6.1 | 0 | C | 9.1 | 8 | 12 | 8.8 | 2.0 | 1.0 | 1 | C |
| 5 | 382 | 5.4 | 0 | C | 9.6 | 9 | 10 | 9.3 | 1.9 | 1.2 | 1 | C |
| 6 | 372 | 4.6 | 0 | C | 9.8 | 8 | 11 | 9.5 | 2.1 | 0.9 | 1 | C |
| 7 | 376 | 4.9 | 0 | C | 9.0 | 13 | 357 | 8.6 | 0.1 | 2.0 | 1 | C |
| 8 | 389 | 4.9 | 0 | C | 8.3 | 16 | 351 | 7.9 | -0.4 | 2.5 | 1 | C |
| 9 | 389 | 5.2 | 0 | C | 8.4 | 10 | 335 | 6.0 | -2.2 | 2.1 | 5 | C |
| 10 | 380 | 5.5 | 0 | C | 8.6 | -12 | 288 | 2.5 | -8.0 | 1.3 | 1 | C |
| 11 | 373 | 5.5 | 0 | C | 8.5 | -5 | 295 | 3.5 | -7.3 | 2.3 | 1 | C |
| 12 | 376 | 5.3 | 0 | C | 8.8 | -8 | 298 | 4.0 | -7.4 | 1.8 | 2 | C |
| 13 | 385 | 4.8 | 0 | C | 8.9 | -1 | 298 | 4.2 | -7.2 | 2.9 | 0 | C |
| 14 | 413 | 5.9 | 36 | J | | | | | | | | |
| 15 | 392 | 6.0 | 40 | J | | | | | | | | |
| 16 | 314 | 4.8 | 227 | L | 9.4 | 34 | 288 | 2.4 | -5.6 | 6.9 | 1 | C |
| 17 | 306 | 5.2 | 206 | L | 9.4 | 8 | 288 | 2.7 | -8.0 | 3.0 | 3 | C |
| 18 | 364 | 5.5 | 29 | J | 9.3 | 4 | 275 | 0.8 | -8.8 | 1.9 | 2 | C |
| 19 | 385 | 6.7 | 26 | J | 8.7 | -12 | 279 | 1.2 | -7.8 | -0.9 | 3 | J |
| 20 | 377 | 7.0 | 30 | J | 8.7 | -15 | 283 | 1.7 | -7.6 | -1.7 | 3 | J |
| 21 | 377 | 6.1 | 26 | J | 9.5 | 18 | 282 | 1.7 | -7.9 | 2.7 | 4 | J |
| 22 | 368 | 6.7 | 32 | J | 9.7 | 19 | 286 | 2.4 | -8.5 | 2.9 | 2 | J |
| 23 | 364 | 6.3 | 30 | J | 9.6 | 37 | 287 | 2.1 | -7.1 | 5.3 | 3 | J |
| 24 | 351 | 6.6 | 32 | J | 9.0 | 6 | 300 | 4.1 | -7.1 | 0.8 | 3 | J |

JUL. 21, 1981 202

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 20.4 | 0 | C | 3.6 | 16 | 87 | 0.2 | 3.0 | 0.8 | 2 | C |
| 2 | 418 | 20.6 | 19 | J | 2.3 | 44 | 117 | -0.6 | 1.3 | 1.3 | 1 | C |
| 3 | 408 | 20.0 | 0 | C | 3.1 | 24 | 346 | 2.5 | -0.5 | 1.2 | 1 | C |
| 4 | 402 | 18.2 | 0 | C | 2.6 | 51 | 304 | 0.8 | -0.9 | 1.9 | 1 | C |
| 5 | 401 | 18.2 | 0 | C | 3.0 | 39 | 328 | 1.8 | -0.8 | 1.9 | 1 | C |
| 6 | 395 | 16.9 | 0 | C | 2.4 | 19 | 270 | 0.0 | -1.6 | 1.0 | 1 | C |
| 7 | 390 | 15.6 | 0 | C | 2.1 | 12 | 193 | -1.5 | -0.2 | 0.4 | 1 | C |
| 8 | 388 | 11.6 | 41 | J | 5.0 | -12 | 200 | -4.5 | -1.9 | -0.4 | 1 | J |
| 9 | 380 | 12.1 | 43 | J | 5.0 | 3 | 187 | -4.8 | -0.4 | 0.4 | 1 | J |
| 10 | 381 | 12.1 | 46 | J | 5.2 | 15 | 178 | -4.9 | 0.7 | 1.1 | 1 | J |
| 11 | 377 | 11.2 | 29 | J | 5.5 | 24 | 169 | -4.8 | 1.7 | 1.6 | 1 | J |
| 12 | 376 | 9.3 | 32 | J | 5.4 | -4 | 146 | -4.3 | 2.5 | -1.5 | 2 | J |
| 13 | 379 | 9.8 | 38 | J | 5.6 | 17 | 144 | -4.3 | 3.5 | 0.3 | 1 | J |
| 14 | 374 | 9.9 | 39 | J | 3.7 | 59 | 4 | 1.4 | 0.9 | 2.1 | 3 | J |
| 15 | 374 | 10.3 | 26 | J | 4.0 | 73 | 318 | 0.7 | 0.4 | 3.2 | 2 | J |
| 16 | 390 | 10.4 | 26 | J | 5.0 | 31 | 60 | 2.1 | 4.1 | 1.4 | 2 | J |
| 17 | 381 | 10.9 | 24 | J | 5.4 | 31 | 62 | 2.1 | 4.3 | 1.7 | 2 | J |
| 18 | 351 | 11.9 | 0 | C | 5.5 | 68 | 356 | 1.7 | 0.6 | 4.2 | 3 | C |
| 19 | 368 | 8.8 | 24 | J | 6.2 | 74 | 321 | 1.3 | -0.4 | 6.0 | 1 | J |
| 20 | 363 | 10.7 | 36 | J | 6.3 | 84 | 10 | 0.6 | 0.5 | 6.1 | 1 | J |
| 21 | 361 | 10.3 | 35 | J | 6.7 | 49 | 124 | -2.2 | 3.4 | 4.4 | 3 | C |
| 22 | 361 | 10.5 | 45 | J | 6.1 | -20 | 139 | -4.2 | 3.6 | -2.0 | 2 | J |
| 23 | 368 | 10.9 | 31 | J | 5.9 | 35 | 145 | -3.5 | 2.4 | 3.0 | 3 | J |
| 24 | 349 | 12.0 | 0 | C | 6.4 | 83 | 289 | 0.2 | -0.6 | 5.4 | 3 | J |

JUL. 16, 1981 197

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 318 | 6.5 | 0 | C | 3.4 | -30 | 286 | 0.8 | -2.7 | -1.6 | 1 | C |
| 2 | 329 | 5.1 | 0 | C | 3.8 | -56 | 324 | 1.6 | -1.3 | -3.0 | 1 | C |
| 3 | 330 | 4.4 | 0 | C | 3.9 | -50 | 341 | 2.4 | -1.0 | -2.9 | 1 | C |
| 4 | 328 | 5.5 | 0 | C | 3.3 | -18 | 280 | 0.5 | -2.9 | -0.6 | 1 | C |
| 5 | 338 | 7.0 | 0 | C | 3.2 | -22 | 321 | 2.0 | -1.8 | -0.8 | 1 | C |
| 6 | 355 | 9.7 | 0 | C | 5.6 | -7 | 288 | 1.3 | -4.2 | 0.3 | 3 | C |
| 7 | 356 | 11.6 | 0 | C | 6.4 | -30 | 318 | 3.8 | -4.1 | -2.0 | 2 | C |
| 8 | 343 | 13.3 | 0 | C | 6.0 | 25 | 290 | 1.6 | -3.5 | 3.4 | 3 | C |
| 9 | 332 | 14.0 | 0 | C | 6.8 | -33 | 325 | 3.9 | -3.5 | -2.0 | 4 | C |
| 10 | 331 | 14.6 | 0 | C | 6.6 | -54 | 338 | 3.6 | -3.2 | -4.3 | 1 | C |
| 11 | 326 | 15.5 | 0 | C | 6.6 | -37 | 334 | 4.7 | -3.6 | -2.7 | 1 | C |
| 12 | 324 | 16.0 | 0 | C | 6.1 | -21 | 325 | 4.6 | -3.8 | -0.8 | 1 | C |
| 13 | 329 | 22.5 | 0 | C | | | | | | | | |
| 14 | 329 | 22.5 | 0 | C | 4.9 | 60 | 268 | -0.1 | -0.9 | 4.7 | 1 | C |
| 15 | 325 | 22.6 | 0 | C | 4.5 | 32 | 281 | 0.4 | -1.4 | 1.7 | 4 | C |
| 16 | 318 | 23.3 | 0 | C | 5.3 | 19 | 296 | 1.8 | -3.1 | 2.2 | 3 | C |
| 17 | 328 | 9.4 | 0 | C | 8.2 | 14 | 303 | 4.3 | -6.1 | 3.1 | 1 | C |
| 18 | 351 | 7.3 | 0 | C | 8.0 | -9 | 315 | 5.4 | -5.5 | -0.4 | 2 | C |
| 19 | 351 | 7.9 | 0 | C | 7.5 | 14 | 305 | 4.1 | -5.7 | 2.2 | 1 | C |
| 20 | 353 | 8.6 | 0 | C | 7.4 | 4 | 308 | 4.6 | -5.7 | 0.6 | 1 | C |
| 21 | 348 | 8.2 | 0 | C | 7.5 | 12 | 298 | 3.5 | -6.5 | 1.5 | 1 | C |
| 22 | 339 | 9.0 | 0 | C | 7.2 | 9 | 302 | 3.7 | -5.9 | 0.9 | 1 | C |
| 23 | 333 | 13.0 | 0 | C | 6.3 | -12 | 317 | 4.0 | -3.6 | -1.3 | 3 | C |
| 24 | 332 | 16.5 | 0 | C | 6.8 | -43 | 335 | 3.9 | -1.7 | -4.2 | 3 | C |

JUL. 18, 1981 199

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 448 | 16.1 | 0 | C | 15.1 | -25 | 224 | -9.8 | -9.4 | -6.2 | 2 | C |
| 2 | 445 | 9.1 | 0 | C | 13.5 | -9 | 224 | -9.6 | -9.2 | -1.7 | 1 | C |
| 3 | 445 | 10.0 | 0 | C | 12.9 | 5 | 225 | -9.0 | -8.8 | 1.7 | 2 | C |
| 4 | 441 | 9.6 | 0 | C | 11.8 | 0 | 230 | -7.5 | -8.8 | 1.0 | 2 | C |
| 5 | 438 | 8.1 | 0 | C | 11.1 | 8 | 240 | -5.5 | -9.1 | 3.1 | 1 | C |
| 6 | 435 | 7.7 | 0 | C | 10.7 | 3 | 246 | -4.3 | -9.1 | 2.7 | 2 | C |
| 7 | 412 | 6.4 | 0 | C | 10.6 | -2 | 245 | -4.5 | -9.3 | 2.3 | 1 | C |
| 8 | 352 | 1.8 | 51 | J | 10.3 | -3 | 245 | -4.3 | -9.0 | 2.4 | 1 | C |
| 9 | 368 | 6.3 | 0 | C | 10.1 | -2 | 246 | -4.1 | -8.8 | 2.8 | 1 | C |
| 10 | 354 | 6.5 | 0 | C | 10.0 | 3 | 239 | -5.1 | -7.8 | 3.7 | 1 | C |
| 11 | 385 | 6.6 | 0 | C | 9.6 | -6 | 260 | -1.6 | -8.7 | 2.7 | 2 | C |
| 12 | 324 | 2.9 | 43 | J | 10.7 | 3 | 262 | -1.6 | -9.5 | 4.7 | 0 | C |
| 13 | 341 | 1.0 | 73 | J | | | | | | | | |
| 14 | 389 | 4.2 | 0 | C | 10.6 | 15 | 262 | -1.4 | -8.6 | 6.1 | 0 | C |
| 15 | 380 | 4.3 | 129 | J | 9.7 | 29 | 267 | -0.4 | -6.6 | 6.9 | 2 | C |
| 16 | 329 | 4.0 | 91 | J | 8.4 | 26 | 275 | 0.6 | -6.0 | 5.3 | 2 | C |
| 17 | 347 | 4.2 | 97 | J | 7.9 | 20 | 279 | 1.1 | -6.5 | 4.1 | 1 | C |
| 18 | 395 | 6.8 | 0 | C | 7.8 | 30 | 295 | 2.8 | -5.4 | 4.6 | 1 | C |
| 19 | 402 | 7.3 | 0 | C | 8.5 | 22 | 303 | 4.0 | -6.0 | 3.6 | 3 | C |
| 20 | 392 | 7.5 | 0 | C | 7.7 | 18 | 297 | 3.1 | -6.1 | 2.4 | 2 | C |
| 21 | 395 | 6.9 | 0 | C | 8.1 | -2 | 328 | 6.8 | -4.3 | -0.2 | 1 | C |
| 22 | 345 | 5.9 | 66 | J | 7.5 | 28 | 280 | 1.2 | -6.5 | 3.4 | 1 | C |
| 23 | 354 | 6.6 | 118 | J | 6.9 | -13 | 336 | 4.7 | -2.1 | -1.3 | 4 | C |
| 24 | 349 | 6.0 | 0 | C | 7.8 | -24 | 0 | 6.9 | 0.1 | -3.0 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 7.5 | 32 | J | 9.8 | 1 | 306 | 4.5 | -6.2 | 0.2 | 6 | J |
| 2 | 375 | 8.3 | 48 | J | 10.3 | 18 | 286 | 2.6 | -9.0 | 3.5 | 2 | J |
| 3 | 375 | 9.7 | 0 | C | 10.4 | 17 | 290 | 3.2 | -8.8 | 3.6 | 2 | C |
| 4 | 401 | 13.2 | 0 | C | 9.8 | 22 | 271 | 0.1 | -7.1 | 4.0 | 5 | C |
| 5 | 403 | 15.0 | 0 | C | 9.4 | -16 | 276 | 0.8 | -7.3 | -0.7 | 5 | C |
| 6 | 417 | 12.8 | 67 | J | 9.3 | 28 | 265 | -0.7 | -6.5 | 5.8 | 3 | J |
| 7 | 400 | 12.9 | 0 | C | 10.2 | 33 | 258 | -1.7 | -6.4 | 7.6 | 1 | C |
| 8 | 416 | 9.8 | 28 | J | 11.9 | 14 | 268 | -0.4 | -9.5 | 6.1 | 3 | J |
| 9 | 420 | 8.9 | 41 | J | 12.1 | 38 | 265 | -0.8 | -5.9 | 9.9 | 4 | J |
| 10 | 423 | 9.4 | 45 | J | 12.5 | 35 | 268 | -0.4 | -6.4 | 10.1 | 4 | J |
| 11 | 414 | 9.8 | 55 | J | 12.1 | 12 | 275 | 0.8 | -7.5 | 5.4 | 8 | J |
| 12 | 415 | 24.9 | 36 | J | 10.1 | 54 | 96 | -0.3 | 4.6 | 2.7 | 9 | J |
| 13 | 429 | 22.0 | 31 | J | 8.3 | -25 | 67 | 2.9 | 5.0 | -5.8 | 1 | J |
| 14 | 414 | 21.4 | 32 | J | 8.2 | -36 | 63 | 2.8 | 3.5 | -6.1 | 4 | J |
| 15 | 409 | 23.4 | 22 | J | 6.9 | 51 | 71 | 1.4 | 5.5 | 3.7 | 1 | J |
| 16 | 410 | 23.6 | 20 | J | 6.6 | 41 | 87 | 0.3 | 5.8 | 2.7 | 2 | J |
| 17 | 419 | 16.6 | 27 | J | 5.8 | 43 | 92 | -0.1 | 4.8 | 2.9 | 1 | J |
| 18 | 424 | 13.3 | 30 | J | 5.0 | 60 | 143 | -1.9 | 2.0 | 3.8 | 2 | J |
| 19 | 436 | 11.2 | 24 | J | 4.5 | 37 | 167 | -3.3 | 1.0 | 2.4 | 2 | J |
| 20 | 431 | 10.9 | 28 | J | 5.0 | 20 | 183 | -4.6 | -0.2 | 1.7 | 1 | J |
| 21 | 428 | 11.5 | 26 | J | 4.8 | 24 | 169 | -4.2 | 0.9 | 1.9 | 1 | J |
| 22 | 424 | 13.1 | 28 | J | 4.4 | 29 | 167 | -3.7 | 0.8 | 2.1 | 1 | J |
| 23 | 417 | 14.1 | 27 | J | 4.2 | 30 | 166 | -3.3 | 0.8 | 2.0 | 1 | J |
| 24 | 423 | 13.9 | 27 | J | 4.3 | 43 | 165 | -2.3 | 0.6 | 2.3 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 9.6 | 30 | J | 6.6 | -25 | 108 | -1.7 | 5.3 | -2.7 | 2 | J |
| 2 | 377 | 9.5 | 39 | J | 6.8 | 1 | 107 | -1.8 | 5.9 | -0.2 | 3 | J |
| 3 | 381 | 9.8 | 41 | J | 7.5 | -37 | 104 | -1.3 | 4.9 | -4.6 | 3 | J |
| 4 | 364 | 12.5 | 0 | C | 6.8 | -37 | 111 | -1.8 | 4.1 | -4.4 | 3 | J |
| 5 | 352 | 9.8 | 76 | J | 6.9 | 26 | 171 | -5.6 | 1.4 | 2.5 | 3 | J |
| 6 | | | | | 6.5 | 17 | 123 | -3.0 | 4.9 | 0.5 | 3 | J |
| 7 | 381 | 10.8 | 54 | J | 6.4 | 43 | 111 | -1.3 | 4.1 | 2.2 | 4 | J |
| 8 | 363 | 10.6 | 62 | J | 6.7 | 29 | 137 | -3.6 | 4.1 | 1.5 | 4 | J |
| 9 | 363 | 13.4 | 0 | C | 7.4 | -12 | 133 | -4.3 | 3.8 | -2.9 | 3 | C |
| 10 | 368 | 10.3 | 54 | J | 7.7 | -58 | 150 | -3.4 | -0.7 | -6.5 | 2 | J |
| 11 | 371 | 10.3 | 45 | J | 7.6 | -24 | 125 | -3.0 | 3.0 | -3.9 | 5 | J |
| 12 | 359 | 8.9 | 52 | J | 8.4 | -42 | 142 | -4.8 | 1.2 | -6.5 | 2 | J |
| 13 | 358 | 9.9 | 55 | J | 8.2 | -19 | 124 | -4.0 | 4.5 | -4.6 | 3 | J |
| 14 | 388 | 12.4 | 53 | J | 10.0 | 3 | 125 | -5.3 | 7.2 | -2.4 | 4 | J |
| 15 | 383 | 13.1 | 55 | J | 10.8 | -29 | 147 | -7.2 | 2.8 | -6.0 | 4 | J |
| 16 | 398 | 15.2 | 89 | J | 10.5 | 20 | 133 | -4.9 | 5.8 | 1.0 | 7 | J |
| 17 | 381 | 14.4 | 69 | J | 10.3 | -6 | 156 | -7.7 | 3.2 | -1.6 | 6 | J |
| 18 | 375 | 13.8 | 94 | J | 9.3 | 18 | 150 | -6.6 | 4.2 | 1.8 | 5 | J |
| 19 | 385 | 12.5 | 70 | J | 11.0 | -16 | 150 | -8.7 | 4.7 | -3.4 | 4 | J |
| 20 | 400 | 11.2 | 70 | J | 11.2 | -13 | 127 | -6.2 | 8.0 | -2.9 | 3 | J |
| 21 | 375 | 13.8 | 0 | C | 12.0 | 1 | 129 | -6.7 | 8.3 | -0.1 | 5 | C |
| 22 | 395 | 15.2 | 0 | C | 13.6 | -27 | 138 | -8.4 | 7.6 | -5.8 | 4 | C |
| 23 | 410 | 11.8 | 73 | J | 12.3 | 18 | 127 | -6.3 | 8.4 | 3.4 | 5 | J |
| 24 | 413 | 10.9 | 78 | J | 11.9 | -18 | 123 | -5.6 | 8.7 | -3.4 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 387 | 10.6 | 92 | J | 11.3 | -5 | 135 | -6.1 | 6.1 | -0.9 | 7 | J |
| 2 | 406 | 9.4 | 120 | J | 11.2 | 32 | 128 | -5.4 | 7.2 | 5.0 | 4 | J |
| 3 | 399 | 9.3 | 91 | J | 11.1 | -1 | 142 | -8.0 | 6.2 | -0.8 | 4 | J |
| 4 | 390 | 6.6 | 93 | J | 11.4 | 32 | 146 | -7.5 | 5.9 | 4.8 | 4 | J |
| 5 | 387 | 5.6 | 55 | J | 11.5 | 15 | 137 | -7.8 | 7.7 | 1.3 | 3 | J |
| 6 | 390 | 5.9 | 54 | J | 11.2 | -7 | 134 | -7.5 | 7.2 | -3.2 | 2 | J |
| 7 | 390 | 5.5 | 40 | J | 11.1 | -13 | 122 | -5.5 | 7.7 | -4.9 | 3 | J |
| 8 | 484 | 13.8 | 256 | J | 16.8 | 68 | 204 | -5.5 | 2.8 | 14.9 | 5 | J |
| 9 | 460 | 13.3 | 232 | J | 15.7 | 28 | 174 | -10.0 | 3.0 | 4.6 | 11 | J |
| 10 | 496 | 13.0 | 256 | J | 15.5 | 2 | 105 | -3.2 | 11.1 | -4.4 | 9 | J |
| 11 | 469 | 17.5 | 0 | C | 16.7 | 42 | 121 | -5.3 | 11.9 | 4.8 | 9 | C |
| 12 | 467 | 14.6 | 0 | C | 15.8 | -44 | 107 | -3.2 | 5.3 | -14.3 | 1 | C |
| 13 | 473 | 14.2 | 0 | C | 15.1 | -43 | 111 | -3.7 | 5.0 | -13.0 | 4 | C |
| 14 | 471 | 13.0 | 0 | C | 13.9 | -54 | 99 | -1.1 | 3.0 | -12.2 | 5 | C |
| 15 | 468 | 12.2 | 0 | C | 12.7 | -64 | 119 | -2.6 | 0.8 | -11.8 | 3 | C |
| 16 | 490 | 9.7 | 209 | J | 10.8 | -46 | 208 | -6.3 | -5.3 | -6.1 | 3 | J |
| 17 | 485 | 9.6 | 185 | J | 10.7 | -34 | 204 | -7.4 | -4.5 | -4.6 | 4 | J |
| 18 | 477 | 11.8 | 92 | J | 9.8 | -52 | 163 | -5.7 | 0.4 | -7.7 | 2 | J |
| 19 | 476 | 11.1 | 89 | J | 9.6 | -42 | 150 | -6.1 | 2.8 | -6.7 | 1 | J |
| 20 | 476 | 9.0 | 91 | J | 9.3 | -26 | 154 | -7.3 | 3.3 | -4.2 | 2 | J |
| 21 | 473 | 7.0 | 71 | J | 9.7 | -6 | 149 | -8.2 | 4.9 | -1.2 | 1 | J |
| 22 | 474 | 6.8 | 51 | J | 9.5 | 12 | 147 | -7.6 | 5.0 | 1.9 | 1 | J |
| 23 | 473 | 5.8 | 43 | J | 9.6 | 7 | 138 | -7.0 | 6.3 | 1.1 | 2 | J |
| 24 | 470 | 5.6 | 52 | J | 9.4 | 1 | 133 | -6.2 | 6.7 | 0.1 | 2 | J |

### JUL. 24, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 463 | 4.3 | 52 | J | 9.7 | 14 | 120 | -4.7 | 8.2 | 2.1 | 0 | J |
| 2 | 465 | 4.3 | 50 | J | 9.4 | 14 | 125 | -5.1 | 7.4 | 1.7 | 2 | J |
| 3 | 470 | 4.4 | 56 | J | 9.4 | 20 | 138 | -6.4 | 6.1 | 2.6 | 1 | C |
| 4 | 458 | 3.4 | 159 | L | 8.5 | 29 | 129 | -4.5 | 6.0 | 3.0 | 3 | J |
| 5 | 466 | 3.7 | 166 | L | 8.3 | 29 | 141 | -5.4 | 5.0 | 2.9 | 2 | J |
| 6 | 444 | 5.2 | 0 | C | 8.3 | 40 | 157 | -5.6 | 3.6 | 4.3 | 2 | J |
| 7 | 444 | 4.8 | 69 | J | 7.7 | 35 | 159 | -4.7 | 2.8 | 2.8 | 4 | J |
| 8 | 434 | 5.7 | 59 | J | 7.5 | 37 | 170 | -5.7 | 2.5 | 3.8 | 2 | J |
| 9 | 425 | 5.6 | 49 | J | 7.4 | 28 | 162 | -6.1 | 3.2 | 2.4 | 1 | J |
| 10 | 432 | 5.5 | 49 | J | 7.3 | 36 | 147 | -4.9 | 4.6 | 2.6 | 1 | J |
| 11 | 425 | 5.7 | 61 | J | 6.8 | 28 | 149 | -4.7 | 3.8 | 1.5 | 3 | J |
| 12 | 435 | 5.5 | 86 | L | 6.3 | 33 | 158 | -4.4 | 2.9 | 2.1 | 3 | J |
| 13 | 409 | 6.5 | 31 | J | 7.4 | 8 | 173 | -6.6 | 1.1 | 0.5 | 3 | J |
| 14 | 435 | 10.7 | 0 | C | 8.2 | 22 | 129 | -4.1 | 5.6 | 0.5 | 4 | C |
| 15 | 429 | 9.6 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 437 | 8.5 | 0 | C | 8.6 | 38 | 153 | -5.9 | 4.3 | 4.0 | 1 | C |
| 17 | 486 | 9.0 | 83 | J | 7.9 | 11 | 85 | 0.5 | 6.3 | -0.3 | 5 | J |
| 18 | 489 | 8.4 | 90 | J | 8.2 | 20 | 112 | -2.2 | 5.8 | 1.1 | 5 | J |
| 19 | 481 | 9.6 | 122 | J | 7.0 | 29 | 132 | -3.6 | 4.3 | 2.4 | 3 | J |
| 20 | 465 | 8.6 | 83 | J | 6.9 | 23 | 137 | -4.2 | 4.1 | 2.1 | 3 | J |
| 21 | 446 | 10.1 | 0 | C | 7.2 | 15 | 110 | -1.7 | 4.9 | 1.2 | 5 | J |
| 22 | 450 | 10.1 | 0 | C | 8.4 | -9 | 90 | 0.0 | 5.6 | -1.0 | 6 | J |
| 23 | 462 | 11.4 | 0 | C | 9.3 | -41 | 76 | 1.5 | 6.0 | -5.5 | 4 | J |
| 24 | 457 | 11.1 | 0 | C | 8.6 | -23 | 64 | 3.2 | 6.5 | -3.2 | 3 | J |

### JUL. 25, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 455 | 10.1 | 88 | J | 7.2 | -11 | 115 | -2.9 | 6.3 | -1.6 | 1 | J |
| 2 | 455 | 10.0 | 69 | J | 7.6 | 40 | 115 | -2.3 | 5.3 | 4.3 | 2 | J |
| 3 | 455 | 9.5 | 60 | J | 7.8 | 32 | 105 | -1.6 | 6.5 | 3.2 | 2 | J |
| 4 | 442 | 9.3 | 74 | J | 7.7 | -1 | 129 | -4.0 | 4.8 | -0.9 | 5 | J |
| 5 | 414 | 9.7 | 0 | C | 7.7 | -11 | 154 | -6.2 | 2.7 | -1.9 | 3 | J |
| 6 | 494 | 15.1 | 0 | C | 23.3 | -29 | 83 | 2.4 | 15.7 | -15.4 | 8 | J |
| 7 | 561 | 18.4 | 0 | C | 19.9 | -2 | 84 | 0.7 | 6.2 | -2.3 | 19 | J |
| 8 | 578 | 12.8 | 0 | C | 17.5 | 62 | 101 | -1.4 | 11.8 | 10.5 | 7 | J |
| 9 | 601 | 5.7 | 547 | L | 17.8 | 54 | 118 | -4.7 | 13.6 | 9.4 | 4 | J |
| 10 | 586 | 9.4 | 475 | L | 18.3 | 20 | 103 | -3.6 | 16.5 | -1.1 | 7 | J |
| 11 | 568 | 12.4 | 370 | L | 19.7 | 74 | 123 | -2.5 | 10.3 | 12.8 | 11 | J |
| 12 | 611 | 18.0 | 371 | L | 14.9 | 15 | 297 | 3.9 | -5.9 | 5.3 | 13 | J |
| 13 | 596 | 15.0 | 317 | L | 13.1 | -31 | 132 | -7.2 | 4.6 | -9.1 | 3 | J |
| 14 | 678 | 23.7 | 0 | C | 22.7 | -49 | 129 | -9.1 | 3.9 | -19.9 | 9 | C |
| 15 | 768 | 31.2 | 0 | C | 37.6 | -63 | 188 | -16.1 | -13.2 | -29.3 | 11 | C |
| 16 | 770 | 27.4 | 0 | C | 37.6 | -37 | 235 | -8.0 | -13.8 | -6.5 | 32 | C |
| 17 | 802 | 15.3 | 0 | C | 27.0 | -70 | 339 | 3.0 | -3.3 | -8.3 | 24 | C |
| 18 | 786 | 11.1 | 0 | C | 25.6 | -77 | 58 | 3.0 | 0.2 | -24.6 | 6 | J |
| 19 | 791 | 11.7 | 0 | C | 23.0 | -9 | 87 | 1.1 | 19.8 | -5.8 | 10 | J |
| 20 | 800 | 14.8 | 0 | C | 20.0 | -45 | 73 | 4.0 | 11.9 | -14.7 | 5 | J |
| 21 | 792 | 13.7 | 0 | C | 18.9 | -7 | 92 | -0.6 | 18.1 | -3.1 | 5 | J |
| 22 | 768 | 10.4 | 0 | C | 19.5 | 28 | 93 | -0.8 | 15.1 | 7.5 | 9 | J |
| 23 | 760 | 7.2 | 0 | C | 16.8 | -22 | 108 | -3.3 | 9.9 | -4.5 | 12 | C |
| 24 | 762 | 4.3 | 0 | C | 17.9 | -57 | 130 | -6.2 | 7.1 | -15.0 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 747 | 1.4 | 0 | C | 18.2 | -59 | 138 | -6.9 | 5.5 | -15.8 | 1 | C |
| 2 | 739 | 2.9 | 0 | C | 18.2 | -62 | 144 | -6.8 | 3.7 | -16.3 | 2 | C |
| 3 | 741 | 5.9 | 0 | C | 17.8 | -64 | 188 | -7.7 | -2.9 | -15.5 | 3 | C |
| 4 | 788 | 3.6 | 0 | C | 18.7 | -67 | 195 | -6.7 | -4.5 | -16.1 | 4 | C |
| 5 | 763 | 1.7 | 0 | C | 19.2 | -49 | 215 | -10.3 | -10.1 | -12.4 | 2 | C |
| 6 | 689 | 1.6 | 0 | C | 18.8 | -42 | 224 | -10.1 | -12.6 | -9.4 | 2 | C |
| 7 | 655 | 2.3 | 0 | C | 17.4 | -24 | 234 | -8.0 | -12.5 | -2.2 | 9 | C |
| 8 | 675 | 4.2 | 0 | C | 17.0 | 65 | 223 | -5.1 | 0.8 | 15.6 | 4 | C |
| 9 | 652 | 8.3 | 0 | C | 16.4 | 65 | 213 | -5.6 | 2.3 | 14.7 | 3 | C |
| 10 | 649 | 11.8 | 0 | C | 15.4 | 30 | 239 | -6.1 | -6.3 | 10.5 | 7 | C |
| 11 | 649 | 10.7 | 0 | C | 20.5 | 9 | 258 | -3.9 | -15.3 | 10.6 | 7 | C |
| 12 | 616 | 7.4 | 0 | C | 20.7 | 3 | 263 | -2.6 | -17.8 | 9.9 | 2 | C |
| 13 | 620 | 11.6 | 0 | C | 17.8 | -2 | 278 | 2.3 | -15.3 | 6.4 | 6 | C |
| 14 | 582 | 6.2 | 0 | C | 15.1 | 1 | 266 | -0.9 | -10.0 | 4.5 | 10 | C |
| 15 | 619 | 3.5 | 0 | C | 15.1 | 11 | 237 | -7.8 | -10.2 | 6.9 | 4 | C |
| 16 | 642 | 4.6 | 0 | C | 13.5 | -2 | 272 | 0.5 | -12.4 | 3.5 | 4 | C |
| 17 | 677 | 5.7 | 0 | C | 11.0 | -26 | 318 | 6.1 | -6.2 | -2.6 | 6 | C |
| 18 | 644 | 6.7 | 0 | C | 12.2 | 18 | 220 | -5.1 | -3.8 | 3.0 | 10 | C |
| 19 | 574 | 4.1 | 0 | C | 12.3 | 17 | 220 | -8.9 | -6.8 | 4.5 | 2 | C |
| 20 | 605 | 3.9 | 0 | C | 11.4 | 35 | 196 | -6.4 | -1.4 | 4.9 | 8 | C |
| 21 | 618 | 5.7 | 0 | C | 10.2 | 44 | 146 | -4.8 | 3.6 | 5.4 | 6 | C |
| 22 | 618 | 4.7 | 142 | L | 9.8 | 29 | 167 | -7.7 | 1.9 | 4.3 | 4 | C |
| 23 | 622 | 6.1 | 156 | L | 9.7 | -4 | 197 | -9.0 | -2.8 | -0.5 | 2 | C |
| 24 | 599 | 5.9 | 0 | C | 9.7 | -17 | 216 | -7.4 | -5.5 | -2.7 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 610 | 4.5 | 0 | C | 8.9 | -23 | 216 | -6.6 | -4.9 | -3.2 | 1 | C |
| 2 | 601 | 2.9 | 0 | C | 7.3 | -21 | 210 | -5.9 | -3.7 | -2.3 | 1 | C |
| 3 | 606 | 2.9 | 0 | C | 6.1 | -29 | 213 | -4.4 | -3.2 | -2.5 | 1 | C |
| 4 | 612 | 3.1 | 0 | C | 6.1 | -47 | 217 | -2.9 | -2.9 | -3.5 | 3 | C |
| 5 | 615 | 2.6 | 0 | C | 6.1 | -64 | 121 | -1.0 | 0.7 | -4.2 | 4 | C |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 501 | 3.6 | 0 | C | 5.3 | -49 | 135 | -2.4 | 1.0 | -4.5 | 0 | C |
| 8 | 488 | 3.6 | 0 | C | 5.2 | -48 | 133 | -2.3 | 1.0 | -4.5 | 1 | C |
| 9 | 492 | 3.3 | 0 | C | 5.0 | -46 | 132 | -2.3 | 0.9 | -4.3 | 0 | C |
| 10 | 567 | 2.0 | 0 | C | 4.5 | -35 | 122 | -1.9 | 1.7 | -3.6 | 1 | C |
| 11 | 596 | 1.6 | 0 | C | 4.4 | -33 | 115 | -1.6 | 1.9 | -3.6 | 0 | C |
| 12 | 579 | 1.4 | 0 | C | 4.7 | -35 | 109 | -1.2 | 2.1 | -4.0 | 1 | C |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 439 | 4.0 | 0 | C | 4.6 | -13 | 100 | -0.8 | 3.6 | -2.6 | 1 | C |
| 15 | 500 | 6.2 | 0 | C | 3.8 | 10 | 62 | 1.5 | 2.8 | -0.5 | 2 | C |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 511 | 6.5 | 0 | C | 4.3 | 13 | 21 | 3.9 | 1.7 | 0.6 | 1 | C |
| 18 | 512 | 6.5 | 0 | C | 4.5 | 20 | 3 | 4.2 | 0.5 | 1.5 | 1 | C |
| 19 | 504 | 6.1 | 0 | C | 4.6 | 19 | 359 | 4.3 | 0.1 | 1.5 | 0 | C |
| 20 | 514 | 5.8 | 0 | C | 4.5 | 19 | 355 | 4.2 | -0.2 | 1.5 | 0 | C |
| 21 | 500 | 6.2 | 0 | C | 4.0 | 22 | 339 | 3.4 | -1.2 | 1.5 | 0 | C |
| 22 | 499 | 6.9 | 0 | C | 3.7 | 41 | 12 | 2.5 | 0.6 | 2.2 | 1 | C |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 505 | 6.7 | 0 | C | 3.4 | 58 | 34 | 1.4 | 1.0 | 2.6 | 1 | C |

### JUL. 28, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 455 | 5.8 | 0 | C | 4.1 | 52 | 18 | 1.9 | 0.8 | 2.5 | 2 | C |
| 2 | 453 | 5.5 | 0 | C | 3.4 | 52 | 5 | 1.0 | 0.2 | 1.3 | 3 | C |
| 3 | 498 | 6.5 | 0 | C | 3.4 | 31 | 355 | 2.6 | -0.0 | 1.6 | 2 | C |
| 4 | 531 | 7.0 | 0 | C | 3.5 | 22 | 338 | 2.9 | -0.9 | 1.4 | 1 | C |
| 5 | 543 | 7.9 | 0 | C | 2.6 | 40 | 11 | 1.8 | 0.7 | 1.4 | 1 | C |
| 6 | 537 | 7.6 | 0 | C | 2.1 | -5 | 223 | -0.6 | -0.6 | 0.1 | 2 | C |
| 7 | 524 | 6.3 | 0 | C | 2.9 | -15 | 194 | -2.7 | -0.9 | -0.5 | 0 | C |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 487 | 6.9 | 0 | C | 3.1 | -30 | 170 | -2.6 | -0.2 | -1.6 | 0 | C |
| 10 | 457 | 6.0 | 0 | C | 3.7 | -28 | 177 | -3.2 | -0.6 | -1.6 | 0 | C |
| 11 | 476 | 6.5 | 0 | C | 4.0 | -30 | 194 | -3.2 | -1.5 | -1.4 | 1 | C |
| 12 | 465 | 6.3 | 0 | C | 4.6 | -6 | 167 | -4.5 | 0.7 | -0.9 | 0 | C |
| 13 | 430 | 5.1 | 0 | C | 4.8 | -5 | 164 | -4.6 | 1.0 | -1.0 | 0 | C |
| 14 | 432 | 5.4 | 0 | C | 4.4 | -1 | 168 | -4.1 | 0.8 | -0.5 | 1 | C |
| 15 | 462 | 6.3 | 0 | C | 3.9 | -40 | 173 | -2.7 | -0.5 | -2.3 | 1 | C |
| 16 | 455 | 6.2 | 0 | C | 3.4 | -34 | 176 | -2.3 | -0.4 | -1.6 | 2 | C |
| 17 | 432 | 5.5 | 0 | C | 3.7 | -7 | 178 | -3.5 | 0.0 | -0.4 | 1 | C |
| 18 | 417 | 5.2 | 0 | C | 3.8 | 7 | 172 | -3.8 | 0.6 | 0.4 | 0 | C |
| 19 | 409 | 5.0 | 0 | C | 3.8 | 3 | 174 | -3.8 | 0.4 | 0.2 | 0 | C |
| 20 | 442 | 5.1 | 0 | C | 3.1 | -29 | 30 | 0.3 | 0.2 | -0.2 | 3 | C |
| 21 | 446 | 4.9 | 0 | C | 2.4 | 6 | 7 | 1.5 | 0.2 | 0.1 | 2 | C |
| 22 | 438 | 4.7 | 0 | C | 2.3 | 27 | 345 | 1.2 | -0.3 | 0.6 | 2 | C |
| 23 | 418 | 4.6 | 0 | C | 2.2 | 48 | 171 | -0.8 | 0.2 | 0.9 | 1 | C |
| 24 | 386 | 4.8 | 0 | C | 3.2 | -3 | 180 | -2.5 | -0.0 | -0.1 | 2 | C |

### JUL. 29, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 4.8 | 0 | C | 3.8 | -17 | 168 | -3.3 | 0.7 | -1.1 | 1 | C |
| 2 | 382 | 5.4 | 0 | C | 4.1 | -14 | 163 | -3.4 | 1.0 | -1.0 | 1 | C |
| 3 | 413 | 5.7 | 0 | C | 4.0 | 56 | 337 | 1.2 | -0.3 | 2.0 | 3 | C |
| 4 | 420 | 5.8 | 0 | C | 4.1 | 42 | 323 | 2.4 | -1.3 | 3.0 | 1 | C |
| 5 | 420 | 5.8 | 0 | C |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 431 | 6.2 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 431 | 6.2 | 0 | C | 2.8 | 46 | 337 | 1.6 | 0.1 | 2.0 | 1 | C |
| 9 | 418 | 6.5 | 0 | C | 3.1 | 22 | 329 | 2.4 | -0.9 | 1.6 | 1 | C |
| 10 | 416 | 6.0 | 0 | C | 3.8 | -4 | 317 | 2.7 | -2.4 | 0.9 | 1 | C |
| 11 | 404 | 3.5 | 0 | C | 3.7 | 34 | 345 | 2.7 | 0.2 | 2.0 | 1 | C |
| 12 | 414 | 2.9 | 0 | C | 3.6 | 17 | 332 | 2.8 | -0.9 | 1.6 | 1 | C |
| 13 | 407 | 3.2 | 0 | C | 3.7 | -13 | 303 | 1.9 | -3.0 | 0.5 | 1 | C |
| 14 | 404 | 3.2 | 0 | C | 3.4 | 3 | 5 | 2.8 | 0.3 | 0.0 | 2 | C |
| 15 | 404 | 3.1 | 0 | C | 3.5 | -4 | 344 | 3.2 | -0.9 | 0.1 | 1 | C |
| 16 | 396 | 3.2 | 0 | C | 3.7 | 7 | 15 | 3.0 | 0.9 | 0.1 | 2 | C |
| 17 | 392 | 3.4 | 0 | C | 3.8 | 29 | 31 | 2.6 | 2.0 | 1.2 | 1 | C |
| 18 | 394 | 3.5 | 0 | C | 4.0 | 35 | 14 | 2.9 | 1.2 | 1.9 | 1 | C |
| 19 | 384 | 3.4 | 0 | C | 4.1 | 29 | 14 | 3.4 | 1.1 | 1.8 | 1 | C |
| 20 | 385 | 3.3 | 0 | C | 3.9 | 16 | 2 | 3.7 | 0.3 | 1.1 | 1 | C |
| 21 | 387 | 3.4 | 0 | C | 4.0 | 3 | 334 | 3.5 | -1.6 | 0.3 | 1 | C |
| 22 | 372 | 3.8 | 0 | C | 4.1 | -21 | 316 | 2.3 | -2.3 | -1.1 | 2 | C |
| 23 | 374 | 5.3 | 0 | C | 4.3 | -39 | 305 | 1.9 | -2.8 | -2.6 | 1 | C |
| 24 | 369 | 6.4 | 0 | C | 4.9 | -16 | 300 | 2.3 | -4.0 | -1.1 | 1 | C |

### JUL. 30, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 360 | 6.7 | 0 | C | 5.6 | 5 | 317 | 4.1 | -3.7 | 0.7 | 1 | C |
| 2 | 357 | 7.6 | 0 | C | 5.5 | 15 | 305 | 3.0 | -4.0 | 1.7 | 1 | C |
| 3 | 352 | 7.5 | 0 | C | 5.6 | -10 | 299 | 2.6 | -4.8 | -0.2 | 1 | C |
| 4 | 348 | 7.5 | 0 | C | 5.3 | -5 | 312 | 3.2 | -3.6 | 0.2 | 2 | C |
| 5 | 353 | 7.9 | 0 | C | 5.1 | 13 | 329 | 4.1 | -2.2 | 1.7 | 1 | C |
| 6 | 360 | 8.6 | 0 | C | 4.8 | -8 | 307 | 2.5 | -3.3 | 0.4 | 2 | C |
| 7 | 365 | 10.3 | 0 | C | 5.2 | -63 | 245 | -1.0 | -3.5 | -3.6 | 1 | C |
| 8 | 368 | 11.8 | 0 | C | 6.5 | -63 | 277 | 0.3 | -4.5 | -4.0 | 2 | C |
| 9 | 370 | 13.0 | 0 | C | 6.1 | -57 | 264 | -0.3 | -4.3 | -2.8 | 3 | C |
| 10 | 372 | 14.3 | 0 | C | 6.7 | -58 | 245 | -1.4 | -5.1 | -3.5 | 2 | C |
| 11 | 373 | 14.8 | 0 | C | 6.7 | -40 | 280 | 0.9 | -6.4 | -1.5 | 0 | C |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 367 | 10.1 | 0 | C | 7.9 | -16 | 301 | 3.6 | -6.3 | 0.8 | 3 | C |
| 14 | 367 | 10.1 | 0 | C | 7.9 | -30 | 295 | 2.7 | -6.8 | -1.0 | 2 | C |
| 15 | 369 | 10.3 | 0 | C | 8.1 | -47 | 284 | 0.9 | -4.8 | -2.3 | 6 | C |
| 16 | 387 | 8.6 | 0 | C | 8.3 | -42 | 306 | 3.0 | -5.5 | -3.1 | 4 | C |
| 17 | 370 | 8.8 | 0 | C | 8.2 | 0 | 292 | 2.8 | -6.6 | 1.8 | 3 | C |
| 18 | 379 | 8.4 | 0 | C | 8.2 | -29 | 276 | 0.6 | -6.8 | -2.1 | 3 | C |
| 19 | 388 | 8.1 | 0 | C | 8.1 | -30 | 289 | 2.0 | -6.2 | -2.6 | 3 | C |
| 20 | 381 | 8.3 | 0 | C | 8.3 | -11 | 294 | 3.1 | -6.9 | -0.7 | 3 | C |
| 21 | 382 | 8.4 | 0 | C | 8.8 | -13 | 274 | 0.5 | -7.8 | -1.2 | 3 | C |
| 22 | 396 | 7.9 | 0 | C | 8.5 | -10 | 278 | 1.1 | -7.9 | -0.9 | 2 | C |
| 23 | 379 | 7.9 | 0 | C | 8.2 | -5 | 300 | 3.8 | -6.5 | -0.3 | 2 | C |
| 24 | 371 | 7.9 | 0 | C | 7.9 | -8 | 288 | 2.2 | -7.0 | -0.7 | 2 | C |

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### JUL. 31, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 383 | 8.2 | 0 | C | 7.4 | -10 | 291 | 2.5 | -6.4 | -0.7 | 2 | C |
| 2 | 371 | 9.3 | 0 | C | 7.6 | -14 | 325 | 5.4 | -4.0 | -1.2 | 3 | C |
| 3 | 373 | 9.7 | 0 | C | 7.9 | -19 | 322 | 5.6 | -4.6 | -1.7 | 2 | C |
| 4 | 378 | 10.1 | 0 | C | 7.8 | -25 | 297 | 3.1 | -6.5 | -2.0 | 2 | C |
| 5 | 386 | 10.6 | 0 | C | 7.4 | -18 | 287 | 2.0 | -6.9 | -0.6 | 1 | C |
| 6 | 384 | 11.3 | 0 | C | 6.8 | -39 | 280 | 0.8 | -5.5 | -2.2 | 3 | C |
| 7 | 381 | 14.0 | 0 | C | 7.6 | -36 | 304 | 3.0 | -5.5 | -2.2 | 3 | C |
| 8 | 381 | 14.9 | 0 | C | 8.7 | -41 | 312 | 4.3 | -6.6 | -3.4 | 1 | C |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 375 | 7.1 | 0 | C | 11.6 | 7 | 132 | -7.5 | 8.4 | -1.4 | 2 | C |
| 17 | 375 | 7.1 | 0 | C | 11.4 | -7 | 131 | -7.4 | 7.7 | -3.6 | 1 | C |
| 18 | 366 | 7.5 | 0 | C | 11.3 | -8 | 132 | -7.5 | 7.7 | -3.2 | 1 | C |
| 19 | 371 | 6.9 | 0 | C | 11.4 | -20 | 134 | -7.3 | 7.0 | -5.0 | 1 | C |
| 20 | 381 | 6.1 | 0 | C | 11.3 | -30 | 136 | -6.9 | 5.0 | -6.4 | 1 | C |
| 21 | 393 | 6.0 | 0 | C | 10.5 | -64 | 125 | -2.4 | 2.7 | -8.5 | 5 | C |
| 22 | 422 | 6.1 | 0 | C |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

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### AUG. 2, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 5.6 | 37 | J | 9.5 | -13 | 154 | -8.0 | 3.7 | -2.4 | 2 | J |
| 2 | 414 | 5.5 | 45 | J | 10.1 | -8 | 147 | -7.8 | 4.9 | -1.9 | 3 | J |
| 3 | 415 | 5.3 | 37 | J | 9.2 | -4 | 152 | -7.7 | 3.9 | -1.2 | 2 | J |
| 4 | 411 | 5.7 | 40 | J | 10.3 | 10 | 146 | -7.9 | 5.6 | 0.6 | 3 | J |
| 5 | 408 | 6.0 | 37 | J | 10.1 | 7 | 149 | -8.3 | 5.2 | -0.1 | 2 | J |
| 6 | 406 | 6.1 | 39 | J | 10.6 | 14 | 153 | -8.7 | 5.0 | 1.0 | 3 | J |
| 7 | 410 | 6.0 | 44 | J | 10.4 | 5 | 157 | -8.8 | 3.8 | -0.5 | 4 | J |
| 8 | 424 | 6.1 | 59 | J | 10.5 | 26 | 136 | -6.1 | 7.0 | 1.5 | 5 | J |
| 9 | 415 | 6.2 | 54 | J | 10.3 | 19 | 137 | -6.6 | 6.9 | 0.2 | 4 | J |
| 10 | 428 | 6.3 | 62 | J | 10.3 | 19 | 127 | -5.5 | 7.9 | -0.5 | 3 | J |
| 11 | 426 | 6.6 | 65 | J | 10.4 | 23 | 132 | -6.1 | 7.8 | 0.3 | 3 | J |
| 12 | 416 | 6.9 | 45 | J | 10.6 | 1 | 135 | -6.7 | 6.0 | -3.0 | 5 | J |
| 13 | 415 | 7.2 | 56 | J | 10.1 | 22 | 145 | -6.8 | 5.8 | 0.9 | 5 | J |
| 14 | 434 | 8.0 | 103 | J | 10.6 | -21 | 119 | -4.6 | 6.0 | -6.8 | 3 | J |
| 15 | 418 | 7.7 | 80 | J | 10.1 | -5 | 126 | -5.4 | 6.6 | -3.6 | 4 | J |
| 16 | 439 | 8.2 | 104 | J | 10.2 | -16 | 111 | -3.2 | 7.0 | -5.2 | 4 | J |
| 17 | 430 | 8.7 | 107 | J | 10.3 | 27 | 130 | -5.3 | 7.2 | 2.2 | 5 | J |
| 18 | 424 | 7.8 | 71 | J | 10.2 | -5 | 136 | -6.5 | 6.0 | -2.2 | 4 | J |
| 19 | 415 | 6.6 | 61 | J | 8.5 | 22 | 139 | -5.1 | 4.9 | 1.9 | 5 | J |
| 20 | 454 | 7.2 | 140 | J | 9.4 | 25 | 121 | -3.8 | 6.8 | 2.6 | 5 | J |
| 21 | 453 | 7.2 | 116 | J | 9.4 | -1 | 146 | -6.8 | 4.6 | -0.6 | 5 | J |
| 22 | 465 | 6.6 | 87 | J | 10.4 | -31 | 136 | -6.1 | 5.5 | -5.5 | 3 | J |
| 23 | 464 | 6.7 | 106 | J | 10.8 | -17 | 135 | -6.9 | 6.7 | -3.4 | 3 | J |
| 24 |  |  |  |  | 10.7 | -45 | 139 | -5.4 | 4.2 | -7.5 | 4 | J |

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### AUG. 4, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 527 | 2.1 | 78 | J | 5.4 | 8 | 120 | -2.5 | 4.4 | 0.3 | 2 | J |
| 2 | 527 | 2.7 | 91 | J | 6.1 | 10 | 121 | -2.6 | 4.5 | 0.3 | 3 | J |
| 3 | 540 | 2.4 | 93 | J | 6.0 | -5 | 119 | -2.4 | 4.2 | -1.2 | 3 | J |
| 4 | 532 | 2.8 | 0 | C | 6.1 | -23 | 123 | -2.6 | 3.5 | -2.8 | 3 | C |
| 5 | 526 | 3.1 | 0 | C | 6.1 | 12 | 130 | -3.3 | 4.2 | 0.0 | 2 | C |
| 6 | 536 | 3.3 | 0 | C | 5.7 | 40 | 160 | -3.5 | 2.1 | 2.5 | 2 | C |
| 7 | 523 | 3.1 | 0 | C | 5.9 | -6 | 122 | -2.7 | 3.7 | -2.0 | 3 | C |
| 8 | 512 | 2.9 | 0 | C | 5.9 | -24 | 120 | -2.6 | 3.1 | -3.9 | 1 | C |
| 9 | 515 | 3.2 | 0 | C | 5.5 | -6 | 147 | -4.1 | 2.2 | -1.6 | 2 | J |
| 10 | 516 | 3.3 | 82 | J | 5.5 | 41 | 166 | -3.5 | 2.2 | 2.4 | 3 | J |
| 11 | 506 | 3.6 | 0 | C | 5.1 | -15 | 169 | -4.6 | 0.2 | -1.5 | 1 | C |
| 12 | 517 | 3.2 | 0 | C | 5.0 | 39 | 154 | -3.4 | 2.9 | 1.9 | 2 | J |
| 13 | 510 | 3.3 | 49 | J | 5.0 | 34 | 151 | -3.2 | 2.7 | 1.4 | 2 | J |
| 14 | 521 | 3.3 | 63 | J | 5.0 | 37 | 148 | -3.0 | 2.8 | 1.6 | 2 | J |
| 15 | 543 | 3.1 | 0 | C | 5.0 | 38 | 165 | -3.8 | 2.2 | 2.4 | 0 | C |
| 16 | 521 | 3.2 | 0 | C | 5.1 | 37 | 201 | -3.4 | -0.3 | 3.1 | 2 | C |
| 17 | 510 | 3.3 | 0 | C | 5.1 | 23 | 179 | -4.2 | 0.6 | 1.6 | 2 | C |
| 18 | 500 | 3.7 | 63 | J | 5.8 | 24 | 199 | -4.5 | -1.0 | 2.4 | 2 | J |
| 19 | 499 | 4.2 | 0 | C | 6.7 | 16 | 195 | -6.1 | -1.3 | 2.1 | 1 | C |
| 20 | 495 | 4.2 | 70 | J | 6.9 | 12 | 201 | -5.9 | -2.1 | 1.7 | 2 | J |
| 21 | 480 | 4.3 | 74 | J | 7.0 | 5 | 197 | -6.1 | -1.8 | 0.7 | 3 | J |
| 22 | 486 | 4.7 | 117 | J | 6.7 | 11 | 183 | -5.9 | -0.2 | 1.2 | 3 | J |
| 23 | 476 | 3.7 | 119 | L | 6.5 | 28 | 200 | -5.2 | -1.7 | 3.1 | 2 | J |
| 24 | 480 | 3.7 | 131 | L | 6.9 | 31 | 216 | -4.6 | -3.1 | 3.7 | 2 | J |

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### AUG. 6, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 495 | 3.7 | 32 | J | 8.7 | -41 | 192 | -6.4 | -1.9 | -5.5 | 1 | J |
| 2 | 506 | 3.1 | 35 | J | 8.9 | -33 | 166 | -7.2 | 1.1 | -5.0 | 1 | J |
| 3 | 467 | 3.8 | 41 | J | 9.1 | -33 | 157 | -7.0 | 2.1 | -5.4 | 1 | J |
| 4 | 448 | 4.3 | 23 | J | 9.0 | -36 | 150 | -6.3 | 2.4 | -6.0 | 0 | J |
| 5 | 457 | 5.4 | 21 | J | 8.5 | -32 | 134 | -5.0 | 3.8 | -5.8 | 0 | J |
| 6 | 446 | 4.6 | 19 | J | 8.3 | -28 | 128 | -4.5 | 4.2 | -5.5 | 1 | J |
| 7 | 428 | 5.5 | 0 | C | 7.9 | -24 | 117 | -3.3 | 4.7 | -5.4 | 0 | C |
| 8 | 428 | 5.5 | 0 | C | 7.6 | -20 | 116 | -3.1 | 4.8 | -5.0 | 0 | C |
| 9 | 421 | 5.3 | 0 | C | 7.3 | -22 | 119 | -3.3 | 4.1 | -5.1 | 0 | C |
| 10 | 412 | 4.7 | 0 | C | 7.0 | -23 | 126 | -3.8 | 3.3 | -4.9 | 1 | C |
| 11 | 411 | 3.9 | 0 | C | 6.6 | -28 | 144 | -4.6 | 1.5 | -4.3 | 1 | J |
| 12 | 412 | 4.8 | 32 | J | 6.3 | -26 | 134 | -3.9 | 2.2 | -4.3 | 1 | J |
| 13 | 410 | 4.4 | 0 | C | 6.0 | -35 | 183 | -4.7 | -1.8 | -2.9 | 1 | C |
| 14 | 427 | 7.0 | 0 | C | 6.2 | -34 | 180 | -5.1 | -1.5 | -3.1 | 0 | C |
| 15 | 401 | 7.2 | 0 | C | 6.4 | -36 | 155 | -4.7 | 0.4 | -4.3 | 1 | C |
| 16 | 401 | 7.2 | 0 | C | 7.0 | -34 | 153 | -5.2 | 1.0 | -4.5 | 0 | C |
| 17 | 401 | 6.0 | 0 | C | 7.1 | -27 | 154 | -5.7 | 1.7 | -4.0 | 0 | C |
| 18 | 396 | 5.9 | 0 | C | 7.3 | -25 | 156 | -6.0 | 1.9 | -3.6 | 1 | C |
| 19 | 385 | 5.6 | 0 | C | 7.4 | -19 | 160 | -6.6 | 1.8 | -2.8 | 0 | C |
| 20 | 384 | 5.2 | 0 | C | 7.3 | -15 | 161 | -6.7 | 2.0 | -2.2 | 0 | C |
| 21 | 380 | 4.8 | 0 | C | 7.2 | -11 | 163 | -6.7 | 1.9 | -1.7 | 0 | C |
| 22 | 381 | 4.6 | 0 | C | 7.1 | -9 | 162 | -6.6 | 2.0 | -1.3 | 0 | C |
| 23 | 385 | 5.5 | 34 | J | 6.5 | -17 | 155 | -5.6 | 2.5 | -2.1 | 0 | J |
| 24 | 374 | 2.9 | 39 | L | 6.3 | -16 | 151 | -5.1 | 2.7 | -1.9 | 1 | J |

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### AUG. 1, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 427 | 4.1 | 0 | C | 10.9 | -11 | 149 | -9.1 | 5.2 | -2.5 | 1 | C |
| 2 | 488 | 4.4 | 0 | C | 10.6 | -30 | 151 | -7.7 | 3.7 | -5.6 | 2 | C |
| 3 | 496 | 4.3 | 0 | C | 10.5 | -20 | 146 | -7.9 | 4.7 | -4.2 | 2 | C |
| 4 | 491 | 4.7 | 0 | C | 10.3 | -20 | 150 | -7.5 | 3.5 | -4.0 | 4 | C |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 479 | 5.6 | 0 | C | 9.9 | -18 | 168 | -7.6 | 0.8 | -2.9 | 4 | C |
| 7 | 467 | 5.7 | 0 | C | 9.8 | -28 | 186 | -8.0 | -2.3 | -3.8 | 3 | C |
| 8 | 467 | 5.8 | 0 | C |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 451 | 5.5 | 43 | J | 11.3 | -16 | 177 | -10.3 | -0.9 | -2.9 | 3 | J |
| 12 | 456 | 4.7 | 57 | J | 10.3 | 5 | 160 | -8.8 | 3.2 | -0.7 | 2 | J |
| 13 | 454 | 4.5 | 52 | J | 10.8 | 1 | 166 | -9.7 | 2.2 | -0.9 | 2 | J |
| 14 | 459 | 4.2 | 48 | J | 9.8 | 1 | 157 | -8.1 | 3.2 | -1.3 | 3 | J |
| 15 | 447 | 6.2 | 0 | C | 11.1 | 9 | 150 | -8.8 | 5.3 | -0.5 | 3 | J |
| 16 | 446 | 5.0 | 81 | J | 11.5 | 18 | 154 | -9.2 | 5.4 | 1.6 | 3 | J |
| 17 | 445 | 5.3 | 83 | J | 11.0 | 11 | 146 | -8.1 | 5.7 | 0.3 | 4 | J |
| 18 | 428 | 6.4 | 56 | J | 10.3 | 14 | 150 | -8.1 | 5.1 | 1.2 | 3 | J |
| 19 | 453 | 7.1 | 89 | J | 9.8 | -41 | 144 | -5.4 | 2.9 | -6.3 | 4 | J |
| 20 | 458 | 7.8 | 91 | J | 9.7 | -12 | 128 | -4.5 | 5.5 | -2.3 | 6 | J |
| 21 | 434 | 8.2 | 84 | J | 10.1 | 19 | 144 | -7.3 | 5.5 | 2.6 | 3 | J |
| 22 | 427 | 7.2 | 79 | J | 9.7 | -14 | 148 | -7.6 | 4.6 | -2.5 | 3 | J |
| 23 | 427 | 5.9 | 58 | J | 9.7 | -9 | 145 | -7.4 | 5.1 | -1.7 | 3 | J |
| 24 | 418 | 5.7 | 35 | J | 9.4 | -10 | 156 | -7.8 | 3.4 | -1.7 | 3 | J |

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### AUG. 3, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 469 | 6.2 | 0 | C | 10.3 | 31 | 134 | -6.1 | 6.7 | 4.7 | 1 | J |
| 2 | 516 | 9.4 | 241 | J | 13.9 | 39 | 127 | -6.2 | 9.2 | 7.3 | 4 | J |
| 3 | 549 | 9.0 | 264 | J | 14.3 | 35 | 104 | -2.7 | 11.8 | 5.8 | 5 | J |
| 4 | 552 | 7.7 | 368 | J | 14.2 | 22 | 120 | -5.9 | 11.0 | 2.5 | 6 | J |
| 5 | 504 | 6.7 | 145 | J | 12.2 | 8 | 141 | -7.1 | 5.9 | -0.3 | 8 | J |
| 6 | 567 | 6.5 | 333 | J | 12.3 | -18 | 106 | -2.6 | 7.6 | -5.7 | 7 | J |
| 7 | 561 | 5.8 | 410 | J | 11.0 | -1 | 121 | -4.7 | 7.2 | -2.9 | 6 | J |
| 8 | 575 | 3.3 | 218 | J | 10.5 | -22 | 109 | -2.9 | 6.3 | -6.6 | 4 | J |
| 9 |  |  |  |  | 9.9 | -12 | 107 | -2.7 | 7.0 | -5.5 | 4 | J |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 531 | 3.1 | 276 | L | 6.1 | -9 | 149 | -4.7 | 2.2 | -2.0 | 2 | J |
| 15 | 556 | 2.5 | 292 | L | 6.3 | -5 | 124 | -3.3 | 4.4 | -2.4 | 2 | J |
| 16 | 553 | 2.0 | 135 | J | 6.6 | -4 | 152 | -5.4 | 2.5 | -1.4 | 2 | J |
| 17 | 541 | 1.7 | 66 | J | 6.8 | -14 | 151 | -5.7 | 2.6 | -2.5 | 1 | J |
| 18 | 534 | 1.9 | 90 | J | 6.7 | -13 | 152 | -5.7 | 2.6 | -2.1 | 1 | J |
| 19 | 528 | 2.1 | 93 | J | 6.4 | -10 | 146 | -4.7 | 2.9 | -1.5 | 3 | J |
| 20 | 536 | 2.1 | 110 | J | 6.2 | -9 | 141 | -4.7 | 3.6 | -1.5 | 1 | J |
| 21 | 530 | 2.2 | 93 | J | 5.8 | -9 | 139 | -3.9 | 3.3 | -1.2 | 2 | J |
| 22 | 528 | 2.3 | 162 | L | 5.5 | 4 | 120 | -2.5 | 4.3 | 0.0 | 2 | J |
| 23 | 512 | 2.3 | 151 | L | 5.4 | -7 | 142 | -4.0 | 3.1 | -0.8 | 2 | J |
| 24 | 514 | 2.3 | 159 | L | 5.6 | -21 | 112 | -1.8 | 4.3 | -2.2 | 2 | J |

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### AUG. 5, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 487 | 5.6 | 131 | J | 7.1 | 43 | 228 | -3.2 | -3.1 | 4.8 | 3 | J |
| 2 | 483 | 5.6 | 111 | J | 6.6 | 49 | 190 | -3.9 | -0.1 | 4.7 | 3 | J |
| 3 | 495 | 6.7 | 106 | J | 8.3 | 48 | 259 | -1.0 | -3.9 | 6.3 | 4 | J |
| 4 | 498 | 6.9 | 165 | J | 7.3 | 12 | 248 | -2.1 | -4.8 | 2.3 | 5 | J |
| 5 | 539 | 9.2 | 159 | J | 6.5 | -18 | 89 | 0.1 | 3.5 | -2.3 | 5 | J |
| 6 | 509 | 6.1 | 137 | J | 8.8 | -48 | 179 | -5.7 | -1.9 | -6.0 | 2 | J |
| 7 | 517 | 5.5 | 58 | J | 11.2 | 4 | 84 | 1.1 | 10.3 | -3.2 | 2 | J |
| 8 | 505 | 6.5 | 58 | J | 11.4 | 24 | 99 | -1.5 | 10.6 | 0.0 | 4 | J |
| 9 | 502 | 10.7 | 107 | J | 8.6 | 63 | 81 | 0.4 | 4.8 | 3.7 | 6 | J |
| 10 | 512 | 16.1 | 74 | J | 3.2 | 64 | 187 | -0.9 | 0.7 | 1.6 | 2 | J |
| 11 | 520 | 14.9 | 56 | J | 3.5 | 39 | 248 | -0.6 | -0.7 | 2.0 | 3 | J |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 498 | 14.5 | 0 | C | 1.8 | 12 | 255 | -0.4 | -1.3 | 1.1 | 0 | C |
| 14 | 498 | 14.5 | 0 | C | 1.9 | -27 | 214 | -0.8 | -0.7 | -0.2 | 2 | C |
| 15 | 485 | 12.0 | 0 | C | 1.4 | -12 | 258 | -0.3 | -1.3 | 0.3 | 0 | C |
| 16 | 485 | 12.0 | 0 | C | 2.5 | -52 | 229 | -0.9 | -1.6 | -1.3 | 1 | C |
| 17 | 437 | 5.3 | 35 | J | 4.8 | -35 | 279 | 0.6 | -4.4 | -1.4 | 0 | J |
| 18 | 478 | 5.6 | 33 | J | 4.8 | -40 | 260 | -0.6 | -4.1 | -2.0 | 1 | J |
| 19 | 477 | 5.1 | 31 | J | 5.1 | -42 | 248 | -1.4 | -4.0 | -2.6 | 1 | J |
| 20 | 465 | 4.4 | 0 | C | 6.3 | -46 | 235 | -2.5 | -4.2 | -3.9 | 1 | C |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 482 | 6.6 | 32 | J | 5.9 | -38 | 204 | -4.2 | -2.2 | -3.4 | 1 | J |
| 23 | 479 | 6.5 | 0 | C | 7.3 | -46 | 193 | -4.9 | -1.6 | -5.1 | 0 | C |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

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### AUG. 7, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 374 | 2.9 | 62 | L | 6.0 | -16 | 159 | -5.3 | 1.8 | -1.8 | 1 | J |
| 2 | 364 | 5.2 | 0 | C | 5.8 | -25 | 155 | -4.8 | 1.8 | -2.7 | 0 | C |
| 3 | 373 | 8.0 | 21 | J | 4.6 | -2 | 152 | -3.9 | 2.0 | -0.5 | 1 | J |
| 4 | 372 | 7.6 | 19 | J | 4.6 | -11 | 150 | -3.9 | 2.0 | -1.4 | 0 | J |
| 5 | 369 | 7.7 | 0 | C | 4.8 | -19 | 147 | -3.8 | 2.0 | -2.2 | 0 | C |
| 6 | 371 | 7.8 | 0 | C | 4.0 | -12 | 177 | -2.6 | -0.1 | -0.6 | 3 | J |
| 7 | 382 | 12.9 | 0 | C | 4.4 | -22 | 147 | -3.3 | 1.4 | -2.3 | 1 | J |
| 8 | 382 | 12.9 | 0 | C | 4.9 | -7 | 162 | -4.4 | 1.1 | -1.1 | 2 | J |
| 9 | 371 | 8.5 | 20 | J | 6.1 | -13 | 149 | -4.9 | 2.1 | -2.5 | 1 | J |
| 10 | 378 | 7.1 | 23 | J | 6.1 | -15 | 149 | -5.0 | 1.9 | -2.8 | 0 | J |
| 11 | 364 | 7.5 | 0 | C | 7.1 | -28 | 142 | -4.9 | 1.7 | -4.8 | 1 | C |
| 12 | 369 | 8.8 | 0 | C |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 345 | 7.1 | 21 | J | 6.0 | -52 | 128 | -2.2 | 0.5 | -5.4 | 1 | J |
| 15 | 347 | 7.7 | 28 | J | 6.4 | -50 | 134 | -2.9 | 0.7 | -5.7 | 0 | J |
| 16 | 338 | 7.2 | 0 | C |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 375 | 9.4 | 0 | C | 8.5 | -44 | 72 | 1.8 | 4.0 | -6.8 | 2 | C |
| 19 | 378 | 8.0 | 24 | J | 9.1 | -39 | 66 | 2.8 | 5.0 | -6.6 | 2 | J |
| 20 | 374 | 5.3 | 52 | L | 9.2 | -34 | 35 | 5.8 | 3.3 | -5.3 | 3 | J |
| 21 | 370 | 8.8 | 0 | C | 9.4 | -8 | 324 | 7.1 | -5.2 | -0.6 | 3 | C |
| 22 | 354 | 9.1 | 0 | C | 9.5 | -2 | 312 | 6.3 | -7.0 | 0.4 | 1 | C |
| 23 | 351 | 8.3 | 0 | C | 9.2 | -7 | 318 | 6.7 | -6.2 | -0.6 | 1 | C |
| 24 | 360 | 7.7 | 0 | C | 9.1 | -1 | 307 | 5.5 | -7.1 | 0.6 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 361 | 7.1 | 0 | C | 9.3 | -3 | 310 | 5.9 | -7.0 | 0.4 | 1 | C |
| 2 | 358 | 7.2 | 0 | C | 9.4 | -1 | 310 | 6.0 | -7.0 | 0.8 | 1 | C |
| 3 | 358 | 7.2 | 0 | C | 9.2 | 4 | 307 | 5.4 | -7.0 | 2.0 | 1 | C |
| 4 | 357 | 7.2 | 0 | C | 9.1 | 3 | 300 | 4.5 | -7.5 | 2.3 | 0 | C |
| 5 | 339 | 6.6 | 0 | C | 9.0 | -4 | 301 | 4.7 | -7.6 | 1.6 | 0 | C |
| 6 | 339 | 6.6 | 0 | C | 9.3 | -8 | 294 | 3.7 | -8.3 | 1.5 | 1 | C |
| 7 | 335 | 6.8 | 0 | C | 9.2 | -7 | 300 | 4.5 | -7.7 | 2.0 | 1 | C |
| 8 | 333 | 7.2 | 0 | C | 8.8 | -12 | 308 | 5.3 | -6.8 | 1.1 | 1 | C |
| 9 | 335 | 6.8 | 0 | C | 8.2 | -12 | 301 | 4.1 | -6.8 | 1.6 | 1 | C |
| 10 | 334 | 7.3 | 0 | C | 7.9 | 26 | 316 | 3.3 | -1.8 | 3.4 | 6 | C |
| 11 | 335 | 8.5 | 0 | C | 6.9 | 8 | 318 | 4.6 | -3.1 | 2.7 | 3 | C |
| 12 | 331 | 9.2 | 0 | C | 7.3 | 16 | 312 | 4.7 | -3.6 | 4.3 | 0 | C |
| 13 | 327 | 8.5 | 0 | C | 7.2 | 15 | 308 | 4.2 | -4.0 | 4.2 | 1 | C |
| 14 | 327 | 8.2 | 0 | C | | | | | | | | |
| 15 | 338 | 5.7 | 0 | C | 7.1 | 35 | 315 | 4.1 | -2.0 | 5.4 | 1 | C |
| 16 | 338 | 5.7 | 0 | C | 7.0 | 31 | 315 | 4.3 | -2.6 | 4.9 | 1 | C |
| 17 | 342 | 5.8 | 0 | C | | | | | | | | |
| 18 | 335 | 5.5 | 0 | C | 6.6 | 17 | 314 | 4.3 | -3.8 | 2.9 | 1 | C |
| 19 | 329 | 5.5 | 0 | C | 6.4 | 12 | 314 | 4.4 | -4.1 | 2.3 | 1 | C |
| 20 | 327 | 5.8 | 0 | C | 6.3 | 6 | 313 | 4.3 | -4.4 | 1.4 | 0 | C |
| 21 | 333 | 6.8 | 0 | C | 6.0 | -4 | 309 | 3.7 | -4.6 | 0.2 | 1 | C |
| 22 | 322 | 6.8 | 0 | C | 6.9 | 1 | 310 | 4.4 | -5.2 | 0.6 | 1 | C |
| 23 | 331 | 7.9 | 0 | C | 7.7 | -25 | 319 | 4.6 | -4.2 | -2.4 | 4 | C |
| 24 | 332 | 9.3 | 0 | C | 7.7 | -43 | 328 | 4.5 | -3.3 | -4.6 | 3 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 314 | 9.1 | 0 | C | 7.5 | -28 | 332 | 4.3 | -2.5 | -2.2 | 5 | C |
| 335 | 9.6 | 0 | C | 7.9 | -52 | 18 | 4.1 | 0.5 | -5.7 | 3 | C |
| 356 | 9.6 | 0 | C | 7.1 | 26 | 303 | 2.9 | -3.9 | 3.4 | 4 | C |
| 358 | 7.8 | 0 | C | 7.7 | 37 | 295 | 2.5 | -4.3 | 5.7 | 1 | C |
| 373 | 7.7 | 0 | C | 7.2 | 43 | 294 | 2.1 | -3.1 | 6.0 | 1 | C |
| 371 | 8.8 | 0 | C | 6.0 | 5 | 277 | 0.6 | -4.5 | 2.1 | 2 | C |
| 369 | 8.9 | 0 | C | 6.5 | 45 | 294 | 1.6 | -1.7 | 4.9 | 3 | C |
| 366 | 9.1 | 0 | C | 7.0 | 10 | 285 | 1.7 | -5.3 | 3.7 | 2 | C |
| 366 | 9.1 | 0 | C | 7.4 | 38 | 285 | 1.4 | -2.8 | 6.3 | 2 | C |
| 354 | 9.3 | 0 | C | 7.5 | 22 | 295 | 2.7 | -3.7 | 4.9 | 3 | C |
| 359 | 8.9 | 0 | C | 7.7 | 39 | 281 | 1.0 | -2.5 | 6.5 | 3 | C |
| 362 | 9.3 | 0 | C | 7.7 | 59 | 260 | -0.6 | -0.2 | 7.3 | 2 | C |
| 362 | 9.4 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| 360 | 12.1 | 0 | C | 6.5 | 75 | 109 | -0.5 | 4.0 | 5.0 | 0 | C |
| 360 | 12.1 | 0 | C | 3.9 | 61 | 279 | 0.2 | -0.4 | 3.0 | 2 | C |
| 356 | 12.4 | 0 | C | 4.2 | 66 | 254 | -0.4 | -0.3 | 3.6 | 2 | C |
| 350 | 12.2 | 0 | C | 4.4 | -33 | 292 | 0.7 | -2.1 | -0.7 | 4 | C |
| 355 | 12.0 | 0 | C | 4.2 | -14 | 326 | 2.8 | -2.0 | -0.4 | 2 | C |
| 353 | 13.3 | 0 | C | 4.6 | 8 | 255 | -0.9 | -3.1 | 0.9 | 3 | C |
| 361 | 15.1 | 0 | C | | | | | | | | |
| 394 | 24.9 | 0 | C | | | | | | | | |
| 394 | 24.9 | 0 | C | 8.7 | 20 | 263 | -0.8 | -6.2 | 3.0 | 5 | C |
| 406 | 34.0 | 0 | C | 9.7 | 58 | 292 | 1.4 | -2.8 | 6.3 | 6 | C |

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222

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 25.2 | 0 | C | 10.3 | 21 | 284 | 2.1 | -7.6 | 4.2 | 5 | C |
| 2 | 373 | 17.0 | 0 | C | 12.9 | 44 | 70 | 2.7 | 8.8 | 6.5 | 6 | C |
| 3 | 368 | 14.9 | 0 | C | 12.5 | 25 | 92 | -0.4 | 12.0 | 2.9 | 2 | C |
| 4 | 364 | 13.9 | 0 | C | 12.4 | 43 | 85 | 0.8 | 10.7 | 6.0 | 1 | C |
| 5 | 379 | 21.6 | 0 | C | 11.9 | 54 | 79 | 1.3 | 9.2 | 7.0 | 2 | C |
| 6 | 468 | 60.7 | 0 | C | 28.0 | 49 | 284 | 3.7 | -8.0 | 21.9 | 14 | C |
| 7 | 452 | 58.9 | 0 | C | 25.3 | 61 | 290 | 3.8 | -2.0 | 22.7 | 9 | C |
| 8 | 460 | 41.7 | 0 | C | 25.6 | -3 | 281 | 4.6 | -22.6 | 9.4 | 5 | C |
| 9 | | | | | | | | | | | | |
| 10 | 457 | 45.7 | 0 | C | | | | | | | | |
| 11 | 458 | 22.9 | 0 | C | 21.2 | 80 | 240 | -1.7 | 6.9 | 17.9 | 9 | C |
| 12 | 462 | 22.1 | 0 | C | 17.9 | 80 | 83 | 0.3 | 10.0 | 12.3 | 8 | C |
| 13 | 448 | 15.7 | 0 | C | 16.8 | 0 | 286 | 4.3 | -13.6 | 7.3 | 4 | C |
| 14 | 447 | 22.3 | 0 | C | 12.2 | 27 | 266 | -0.8 | -7.0 | 9.8 | 1 | C |
| 15 | 454 | 22.6 | 0 | C | 12.0 | 2 | 285 | 2.6 | -8.5 | 4.3 | 6 | C |
| 16 | 438 | 15.8 | 0 | C | 15.3 | 38 | 250 | -4.0 | -6.8 | 12.7 | 3 | C |
| 17 | | | | | | | | | | | | |
| 18 | 436 | 14.5 | 0 | C | 14.3 | 37 | 275 | 0.9 | -8.5 | 11.2 | 2 | C |
| 19 | 412 | 13.2 | 0 | C | 12.5 | 29 | 292 | 4.0 | -8.5 | 8.1 | 1 | C |
| 20 | 393 | 12.4 | 0 | C | 12.6 | 25 | 300 | 5.5 | -8.5 | 6.7 | 3 | C |
| 21 | 377 | 11.3 | 0 | C | 12.8 | 11 | 296 | 5.4 | -10.4 | 3.7 | 3 | C |
| 22 | 378 | 10.0 | 0 | C | 12.1 | 4 | 292 | 4.6 | -10.9 | 2.1 | 2 | C |
| 23 | 383 | 9.1 | 0 | C | 11.5 | 5 | 297 | 5.2 | -9.8 | 2.1 | 2 | C |
| 24 | 380 | 9.5 | 0 | C | 10.5 | -16 | 305 | 5.7 | -8.4 | -1.9 | 1 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 392 | 11.3 | 0 | C | 10.3 | -10 | 310 | 6.4 | -7.9 | -0.7 | 1 | C |
| 442 | 13.7 | 0 | C | 12.0 | 39 | 6 | 7.2 | 1.7 | 5.6 | 6 | C |
| 451 | 9.8 | 0 | C | 14.5 | 61 | 356 | 4.0 | 1.2 | 7.1 | 12 | C |
| 459 | 6.6 | 0 | C | 13.8 | 49 | 262 | -1.0 | -4.8 | 9.7 | 8 | C |
| 485 | 5.4 | 0 | C | 12.7 | 25 | 244 | -5.1 | -8.3 | 8.1 | 1 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 483 | 5.6 | 0 | C | | | | | | | | |
| 483 | 5.6 | 0 | C | 6.6 | 22 | 236 | -2.9 | -2.9 | 3.9 | 3 | C |
| 519 | 6.3 | 0 | C | 5.7 | 21 | 204 | -4.1 | -0.7 | 2.4 | 3 | C |
| 512 | 7.2 | 0 | C | 4.6 | 80 | 190 | -0.7 | 1.9 | 3.6 | 2 | C |
| 486 | 4.3 | 0 | C | 7.2 | 6 | 270 | 0.0 | -4.6 | 3.3 | 4 | C |
| | | | | | | | | | | | |
| 447 | 9.1 | 0 | C | 8.7 | -46 | 304 | 3.3 | -7.2 | -3.2 | 0 | C |
| 447 | 9.1 | 0 | C | 9.6 | -56 | 289 | 1.7 | -7.5 | -4.8 | 2 | C |
| 520 | 4.4 | 0 | C | 10.9 | -42 | 285 | 1.9 | -9.1 | -3.6 | 3 | C |
| 636 | 10.2 | 0 | C | 11.0 | 1 | 316 | 6.6 | -6.0 | 2.2 | 5 | C |
| 626 | 2.1 | 0 | C | 10.5 | -8 | 318 | 7.4 | -6.7 | 0.4 | 3 | C |
| 611 | 2.0 | 0 | C | 9.5 | -10 | 325 | 7.5 | -5.4 | -0.4 | 2 | C |
| 671 | 1.7 | 0 | C | 8.9 | -41 | 296 | 2.7 | -6.3 | -4.3 | 3 | C |
| 673 | 1.4 | 0 | C | 8.6 | -54 | 303 | 2.6 | -4.9 | -6.0 | 2 | C |
| 616 | 1.7 | 0 | C | 8.3 | -9 | 321 | 4.9 | -4.0 | -0.5 | 5 | C |
| 591 | 1.5 | 0 | C | 8.2 | 1 | 348 | 7.7 | -1.6 | 0.3 | 2 | C |
| 690 | 1.2 | 0 | C | 7.5 | 15 | 355 | 6.6 | -0.4 | 1.9 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 671 | 1.1 | 0 | C | 7.0 | -4 | 341 | 6.0 | -2.1 | -0.1 | 2 | C |
| 2 | 689 | 1.2 | 0 | C | 6.7 | -7 | 320 | 4.8 | -4.1 | -0.1 | 2 | C |
| 3 | 719 | 1.2 | 0 | C | 6.5 | -5 | 303 | 3.4 | -5.3 | 0.5 | 1 | C |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 663 | 1.7 | 0 | C | 8.7 | 4 | 309 | 5.4 | -6.0 | 2.9 | 0 | C |
| 7 | 663 | 1.7 | 0 | C | 8.8 | 2 | 318 | 5.6 | -4.5 | 2.2 | 4 | C |
| 8 | 630 | 2.0 | 0 | C | 8.7 | 20 | 339 | 7.2 | -1.2 | 3.8 | 2 | C |
| 9 | | | | | | | | | | | | |
| 10 | 617 | 1.9 | 0 | C | 7.5 | 6 | 353 | 7.1 | -0.4 | 1.1 | 2 | C |
| 11 | | | | | 7.6 | -2 | 310 | 4.8 | -5.1 | 2.6 | 1 | C |
| 12 | 607 | 2.5 | 0 | C | | | | | | | | |
| 13 | 607 | 2.5 | 0 | C | 8.2 | 3 | 293 | 2.9 | -5.8 | 3.6 | 3 | C |
| 14 | 532 | 2.4 | 0 | C | 8.5 | -6 | 304 | 4.3 | -5.9 | 2.2 | 3 | C |
| 15 | 611 | 2.6 | 0 | C | 8.5 | -4 | 304 | 3.5 | -4.8 | 1.8 | 5 | C |
| 16 | 642 | 2.5 | 0 | C | 8.4 | 9 | 299 | 3.0 | -4.6 | 2.9 | 4 | C |
| 17 | 619 | 2.7 | 0 | C | 8.6 | 17 | 280 | 1.3 | -6.3 | 4.6 | 2 | C |
| 18 | 606 | 2.7 | 0 | C | 8.0 | 11 | 322 | 5.8 | -3.9 | 2.6 | 2 | C |
| 19 | 606 | 2.5 | 0 | C | 7.6 | 9 | 319 | 5.1 | -4.1 | 2.1 | 3 | C |
| 20 | 679 | 2.6 | 0 | C | 7.8 | 17 | 290 | 2.2 | -5.6 | 3.0 | 3 | C |
| 21 | 610 | 3.0 | 0 | C | 8.2 | 15 | 305 | 4.4 | -6.0 | 3.0 | 1 | C |
| 22 | 564 | 3.1 | 0 | C | 7.8 | -1 | 333 | 6.7 | -3.5 | 0.3 | 1 | C |
| 23 | 627 | 2.6 | 0 | C | 7.5 | 0 | 317 | 5.1 | -4.7 | 0.6 | 2 | C |
| 24 | 652 | 2.4 | 0 | C | 7.6 | -1 | 345 | 6.9 | -1.9 | 0.1 | 2 | C |

AUG. 13, 1981

225

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 662 | 2.4 | 0 | C | 7.9 | -2 | 316 | 4.3 | -4.2 | 0.4 | 5 | C |
| 651 | 2.4 | 0 | C | 8.2 | -3 | 322 | 6.2 | -4.8 | 0.3 | 2 | C |
| 631 | 2.7 | 0 | C | 8.4 | -4 | 314 | 5.2 | -5.4 | 0.7 | 3 | C |
| 631 | 2.9 | 0 | C | 8.7 | -8 | 267 | -0.4 | -8.2 | 1.0 | 2 | C |
| 625 | 2.9 | 0 | C | 7.5 | -11 | 322 | 5.7 | -4.6 | -0.0 | 1 | C |
| 623 | 2.7 | 0 | C | 7.4 | -8 | 280 | 1.0 | -5.7 | 1.2 | 3 | C |
| 619 | 2.5 | 0 | C | 7.4 | -21 | 295 | 2.7 | -6.3 | 0.1 | 2 | C |
| 607 | 2.3 | 0 | C | 7.2 | -12 | 309 | 4.4 | -5.6 | 1.1 | 0 | C |
| 628 | 2.4 | 0 | C | 7.3 | -6 | 315 | 4.5 | -4.2 | 1.5 | 3 | C |
| 625 | 2.5 | 0 | C | 7.3 | -4 | 310 | 4.4 | -4.8 | 2.2 | 2 | C |
| 602 | 2.8 | 0 | C | 7.1 | 14 | 337 | 5.2 | -1.2 | 2.3 | 4 | C |
| 579 | 3.1 | 0 | C | | | | | | | | |
| 574 | 3.0 | 0 | C | 6.0 | 6 | 308 | 3.3 | -3.4 | 2.5 | 2 | C |
| 599 | 2.9 | 0 | C | 5.3 | -10 | 304 | 2.6 | -3.8 | 1.1 | 2 | C |
| 610 | 3.0 | 0 | C | | | | | | | | |
| 571 | 3.0 | 0 | C | | | | | | | | |
| 571 | 3.0 | 0 | C | 5.6 | -15 | 309 | 3.0 | -4.0 | 0.0 | 2 | C |
| 574 | 3.1 | 0 | C | 5.8 | 26 | 255 | -0.9 | -2.8 | 2.6 | 4 | C |
| 587 | 3.1 | 0 | C | 6.0 | 28 | 238 | -2.6 | -3.4 | 3.4 | 2 | C |
| 571 | 3.2 | 0 | C | 6.4 | 22 | 243 | -2.4 | -4.3 | 2.9 | 2 | C |
| 565 | 3.0 | 0 | C | 5.9 | -20 | 328 | 4.0 | -2.8 | -1.4 | 3 | C |
| 555 | 2.8 | 0 | C | 5.1 | -24 | 330 | 3.6 | -2.3 | -1.6 | 2 | C |
| 562 | 2.9 | 0 | C | 4.8 | -8 | 288 | 1.3 | -3.9 | -0.1 | 2 | C |
| 568 | 3.0 | 0 | C | 5.8 | 13 | 286 | 1.2 | -3.9 | 1.5 | 4 | C |

AUG. 14, 1981

226

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 543 | 2.5 | 0 | C | 5.7 | -15 | 339 | 4.4 | -1.8 | -1.0 | 3 | C |
| 2 | 529 | 2.5 | 0 | C | 5.6 | -10 | 328 | 4.2 | -2.8 | -0.4 | 2 | C |
| 3 | 529 | 2.4 | 0 | C | 5.9 | -5 | 338 | 5.3 | -2.2 | 0.0 | 1 | C |
| 4 | 524 | 2.4 | 0 | C | 6.1 | -10 | 338 | 5.5 | -2.4 | -0.4 | 0 | C |
| 5 | 509 | 2.6 | 0 | C | 6.1 | -9 | 340 | 5.6 | -2.2 | -0.2 | 1 | C |
| 6 | 451 | 3.5 | 0 | C | 6.5 | -11 | 336 | 5.3 | -2.6 | -0.2 | 2 | J |
| 7 | 507 | 2.5 | 0 | C | 7.5 | -13 | 359 | 7.3 | -0.8 | -1.5 | 1 | J |
| 8 | 517 | 2.4 | 0 | C | 6.3 | -12 | 5 | 5.9 | -0.1 | -1.4 | 1 | J |
| 9 | 554 | 1.8 | 85 | J | 6.1 | 3 | 8 | 5.8 | 0.9 | -0.1 | 1 | J |
| 10 | 556 | 2.1 | 138 | J | 6.1 | -16 | 9 | 5.6 | -0.0 | -1.9 | 1 | J |
| 11 | 570 | 1.9 | 103 | J | 6.0 | -8 | 12 | 5.7 | 0.6 | -1.3 | 1 | J |
| 12 | 582 | 2.0 | 83 | J | 6.1 | -21 | 358 | 5.6 | -1.3 | -1.8 | 1 | J |
| 13 | 556 | 2.3 | 0 | C | 6.5 | 0 | 7 | 6.4 | 0.7 | -0.4 | 1 | J |
| 14 | 560 | 1.7 | 83 | J | 5.7 | -8 | 345 | 4.9 | -1.5 | -0.0 | 2 | J |
| 15 | 555 | 2.6 | 0 | C | 5.9 | 26 | 294 | 1.7 | -2.6 | 3.5 | 3 | J |
| 16 | 572 | 2.4 | 103 | J | 6.0 | -1 | 290 | 1.8 | -4.5 | 1.8 | 3 | J |
| 17 | 553 | 2.1 | 116 | J | 4.6 | 5 | 339 | 3.7 | -1.2 | 0.8 | 2 | J |
| 18 | 525 | 2.9 | 0 | C | 4.4 | 3 | 349 | 3.8 | -0.7 | 0.4 | 2 | J |
| 19 | 517 | 3.0 | 0 | C | 5.0 | 10 | 359 | 4.6 | 0.1 | 0.8 | 2 | J |
| 20 | 535 | 3.8 | 148 | J | 5.7 | -27 | 355 | 5.0 | -0.9 | -2.4 | 1 | J |
| 21 | 529 | 2.9 | 118 | J | 4.5 | -13 | 357 | 4.1 | -0.4 | -0.9 | 2 | J |
| 22 | 503 | 3.1 | 0 | C | 4.6 | 4 | 2 | 4.4 | 0.2 | 0.3 | 1 | J |
| 23 | 516 | 2.6 | 81 | J | 4.9 | -8 | 14 | 4.5 | 1.0 | -0.8 | 1 | J |
| 24 | 508 | 2.4 | 48 | J | 5.7 | 1 | 358 | 5.5 | -0.2 | 0.1 | 1 | J |

AUG. 15, 1981

227

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 516 | 2.5 | 55 | J | 5.2 | 6 | 359 | 4.9 | -0.0 | 0.5 | 1 | J |
| 506 | 2.1 | 53 | J | 5.0 | 10 | 356 | 4.7 | -0.2 | 0.9 | 1 | J |
| 497 | 2.3 | 70 | J | 5.9 | -11 | 11 | 5.7 | 0.8 | -1.3 | 1 | J |
| 503 | 2.5 | 76 | J | 5.4 | -19 | 358 | 5.0 | -0.6 | -1.6 | 1 | J |
| 495 | 2.7 | 0 | C | 5.1 | -18 | 346 | 4.7 | -1.6 | -1.1 | 1 | J |
| 496 | 2.3 | 77 | J | 5.0 | -22 | 345 | 4.3 | -1.7 | -1.3 | 1 | J |
| 490 | 2.9 | 0 | C | 4.2 | 9 | 323 | 2.7 | -1.6 | 1.3 | 2 | J |
| | | | | 4.0 | -11 | 336 | 2.8 | -1.4 | 0.0 | 3 | J |
| 479 | 2.6 | 0 | C | 4.8 | 30 | 244 | -1.7 | -2.0 | 3.7 | 1 | J |
| 479 | 2.6 | 0 | C | 5.5 | 2 | 258 | -1.1 | -4.5 | 2.8 | 1 | C |
| 489 | 2.8 | 0 | C | 5.9 | 3 | 247 | -2.3 | -4.4 | 3.0 | 0 | J |
| 499 | 3.0 | 36 | J | 5.8 | 2 | 245 | -2.5 | -4.4 | 2.9 | 0 | J |
| 477 | 2.7 | 58 | J | 5.0 | -20 | 270 | -0.0 | -4.8 | 0.8 | 1 | J |
| 478 | 2.9 | 48 | J | 5.3 | -21 | 269 | -0.1 | -5.0 | 0.6 | 1 | J |
| 456 | 2.6 | 41 | J | 5.3 | 8 | 286 | 1.4 | -4.1 | 2.8 | 1 | J |
| 392 | 5.1 | 0 | C | 5.7 | -33 | 284 | 1.1 | -5.2 | -1.0 | 2 | C |
| 392 | 5.4 | 0 | C | 6.0 | -13 | 267 | -0.3 | -5.8 | 0.7 | 1 | C |
| | | | | | | | | | | | |
| 406 | 6.3 | 0 | C | 6.1 | 18 | 290 | 1.7 | -4.2 | 2.7 | 3 | C |
| 386 | 6.6 | 0 | C | 7.1 | -8 | 312 | 3.4 | -3.9 | 0.0 | 5 | J |
| 448 | 7.3 | 49 | J | 6.6 | -44 | 326 | 3.9 | -3.3 | -4.1 | 1 | J |
| 446 | 12.6 | 35 | J | 5.6 | -70 | 35 | 1.5 | 0.4 | -5.2 | 2 | J |
| 433 | 9.3 | 32 | J | 5.5 | -67 | 8 | 2.1 | -0.3 | -5.1 | 1 | J |
| 429 | 17.1 | 38 | J | 3.6 | -72 | 94 | -0.1 | 0.5 | -2.7 | 3 | J |

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OF POOR QUALITY**

08/16/81 – 08/23/81

### AUG. 16, 1981

228

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 439 | 11.8 | 65 | J | 3.5 | 18 | 84 | 0.2 | 2.1 | 0.3 | 3 | J |
| 2 | 447 | 5.4 | 43 | J | 5.8 | 30 | 83 | 0.6 | 5.2 | 1.8 | 2 | J |
| 3 | 439 | 4.0 | 41 | J | 5.5 | 9 | 79 | 0.9 | 4.6 | -0.3 | 3 | J |
| 4 | 448 | 3.7 | 75 | J | 3.7 | 35 | 278 | 0.3 | -1.8 | 2.2 | 2 | J |
| 5 | 459 | 4.0 | 41 | J | 4.6 | -16 | 251 | -1.3 | -3.8 | 0.1 | 2 | J |
| 6 | 458 | 4.2 | 39 | J | 4.5 | -24 | 255 | -0.9 | -3.9 | -0.2 | 2 | J |
| 7 | 464 | 4.2 | 42 | J | 4.3 | -18 | 242 | -1.8 | -3.7 | 0.3 | 1 | J |
| 8 | 453 | 3.4 | 0 | C | 4.2 | -7 | 242 | -1.9 | -3.3 | 1.1 | 1 | J |
| 9 | 432 | 4.9 | 84 | J | 3.9 | 9 | 287 | 0.9 | -2.4 | 1.9 | 2 | J |
| 10 | 441 | 7.6 | 37 | J | 3.8 | 16 | 307 | 2.1 | -1.9 | 2.3 | 1 | J |
| 11 | 446 | 9.5 | 37 | J | 0.7 | -30 | 280 | 0.1 | -0.5 | 0.0 | 1 | J |
| 12 | 431 | 6.9 | 0 | C | | | | | | | | |
| 13 | 437 | 7.5 | 52 | J | 2.1 | -33 | 318 | 1.2 | -1.5 | -0.4 | 1 | J |
| 14 | 424 | 7.5 | 40 | J | 1.7 | 1 | 158 | -1.5 | 0.5 | -0.3 | 1 | J |
| 15 | 415 | 8.5 | 29 | J | 1.3 | 19 | 132 | -0.8 | 0.9 | -0.0 | 0 | J |
| 16 | 414 | 8.5 | 28 | J | 1.0 | 27 | 126 | -0.5 | 0.8 | 0.1 | 1 | J |
| 17 | 410 | 7.8 | 30 | J | 1.6 | 38 | 133 | -0.5 | 0.7 | 0.3 | 1 | J |
| 18 | 408 | 8.0 | 39 | J | 2.2 | 22 | 139 | -1.0 | 1.0 | 0.3 | 2 | J |
| 19 | 411 | 6.8 | 28 | J | 2.3 | 19 | 85 | 0.2 | 2.2 | 0.2 | 1 | J |
| 20 | 380 | 6.1 | 33 | J | 3.8 | -2 | 139 | -2.7 | 2.3 | -0.6 | 1 | J |
| 21 | 380 | 6.9 | 43 | J | 3.4 | 0 | 143 | -2.6 | 2.0 | -0.3 | 1 | J |
| 22 | 373 | 5.9 | 20 | J | 4.4 | -13 | 168 | -4.1 | 0.7 | -1.1 | 1 | J |
| 23 | 365 | 6.4 | 20 | J | 4.8 | -8 | 159 | -4.3 | 1.6 | -0.9 | 1 | J |
| 24 | 378 | 8.7 | 23 | J | 4.9 | 17 | 141 | -3.2 | 2.7 | 0.9 | 2 | J |

### AUG. 18, 1981

230

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 448 | 7.0 | 66 | J | 7.7 | -7 | 113 | -1.7 | 7.2 | -2.1 | 1 | J |
| 2 | 448 | 7.2 | 78 | J | 6.9 | -18 | 105 | -1.5 | 5.1 | -2.9 | 3 | J |
| 3 | 432 | 6.9 | 110 | J | 6.2 | 24 | 144 | -2.5 | 2.1 | 0.9 | 5 | J |
| 4 | 427 | 7.1 | 71 | J | 6.4 | 31 | 164 | -4.0 | 1.8 | 2.1 | 4 | J |
| 5 | 435 | 8.0 | 109 | J | 6.1 | 17 | 126 | -3.1 | 4.6 | 0.1 | 3 | J |
| 6 | 419 | 7.6 | 42 | J | 6.6 | -21 | 156 | -5.4 | 1.4 | -3.0 | 2 | J |
| 7 | 427 | 7.7 | 55 | J | 6.9 | -18 | 142 | -4.6 | 2.5 | -3.3 | 3 | J |
| 8 | 440 | 8.2 | 75 | J | 7.6 | -13 | 112 | -2.7 | 5.3 | -4.6 | 1 | J |
| 9 | 418 | 7.6 | 35 | J | 7.6 | -8 | 142 | -5.7 | 3.4 | -3.1 | 2 | J |
| 10 | 429 | 8.8 | 0 | C | 7.9 | -13 | 139 | -5.4 | 3.1 | -3.8 | 2 | C |
| 11 | 432 | 8.7 | 0 | C | 8.2 | -24 | 128 | -4.0 | 2.8 | -5.1 | 4 | C |
| 12 | 430 | 8.6 | 0 | C | 8.2 | -3 | 119 | -3.7 | 5.5 | -3.7 | 2 | C |
| 13 | | | | | | | | | | | | |
| 14 | 423 | 9.2 | 0 | C | 8.0 | -35 | 101 | -1.2 | 3.3 | -6.8 | 2 | J |
| 15 | 464 | 8.5 | 35 | J | 7.9 | -28 | 114 | -2.5 | 3.5 | -5.4 | 4 | J |
| 16 | 442 | 9.1 | 51 | J | 7.9 | -16 | 115 | -2.8 | 4.8 | -4.2 | 3 | J |
| 17 | 442 | 9.0 | 43 | J | 7.7 | 8 | 111 | -1.3 | 6.8 | -1.5 | 3 | J |
| 18 | 435 | 8.6 | 81 | J | 6.1 | -32 | 126 | -3.0 | 3.0 | -4.3 | 1 | J |
| 19 | 433 | 9.8 | 65 | J | 6.1 | 30 | 135 | -2.6 | 3.0 | 1.4 | 4 | J |
| 20 | 441 | 8.4 | 75 | J | 6.2 | -40 | 128 | -2.7 | 2.7 | -4.4 | 2 | J |
| 21 | 439 | 7.8 | 87 | J | 5.9 | -31 | 135 | -3.3 | 2.8 | -3.3 | 2 | J |
| 22 | 441 | 8.1 | 99 | J | 5.2 | 46 | 136 | -2.0 | 2.3 | 2.6 | 3 | J |
| 23 | 444 | 7.7 | 88 | J | 5.3 | 20 | 145 | -3.2 | 2.4 | 1.1 | 3 | J |
| 24 | 452 | 7.5 | 91 | J | 4.9 | 40 | 146 | -2.2 | 1.8 | 2.0 | 3 | J |

### AUG. 20, 1981

232

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 412 | 7.3 | 0 | C | 4.8 | 13 | 151 | -2.8 | 1.6 | 0.5 | 3 | C |
| 2 | 465 | 5.5 | 60 | J | 4.8 | -11 | 22 | 4.1 | 1.5 | -1.2 | 1 | J |
| 3 | 454 | 6.0 | 72 | J | 4.7 | -36 | 17 | 2.6 | 0.3 | -2.1 | 3 | J |
| 4 | 409 | 7.2 | 0 | C | 3.8 | -14 | 108 | -0.7 | 2.0 | -1.2 | 3 | J |
| 5 | 402 | 7.5 | 0 | C | 4.6 | -7 | 145 | -3.3 | 2.0 | -1.2 | 2 | C |
| 6 | 405 | 5.7 | 53 | J | 4.9 | 27 | 134 | -3.0 | 3.8 | 0.9 | 1 | J |
| 7 | 406 | 5.5 | 35 | J | 5.4 | 27 | 118 | -2.1 | 4.6 | 0.4 | 2 | J |
| 8 | 411 | 6.4 | 23 | J | 6.1 | 35 | 83 | 0.6 | 5.9 | 0.8 | 1 | J |
| 9 | 404 | 6.0 | 22 | J | 5.9 | 51 | 90 | 0.0 | 5.3 | 2.1 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | 367 | 6.4 | 0 | C | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 367 | 6.4 | 0 | C | 5.5 | 32 | 135 | -3.3 | 4.3 | 0.8 | 1 | C |
| 14 | 359 | 6.3 | 0 | C | 5.5 | 35 | 148 | -3.7 | 3.6 | 1.5 | 1 | C |
| 15 | 359 | 6.7 | 0 | C | 5.5 | 42 | 119 | -1.9 | 4.7 | 1.6 | 1 | C |
| 16 | 362 | 6.7 | 0 | C | 5.1 | 37 | 124 | -2.1 | 4.0 | 1.3 | 2 | C |
| 17 | | | | | | | | | | | | |
| 18 | 363 | 7.8 | 0 | C | 5.2 | -38 | 126 | -2.2 | 1.9 | -3.6 | 2 | C |
| 19 | | | | | | | | | | | | |
| 20 | 351 | 6.7 | 47 | J | 5.1 | -2 | 217 | -3.5 | -2.6 | 0.4 | 3 | J |
| 21 | 364 | 6.9 | 28 | J | 5.4 | 1 | 229 | -2.8 | -3.1 | 0.6 | 3 | J |
| 22 | 355 | 7.2 | 34 | J | 5.4 | -17 | 224 | -3.2 | -3.3 | -0.9 | 3 | J |
| 23 | 356 | 7.3 | 37 | J | 5.6 | -22 | 212 | -4.0 | -2.8 | -1.5 | 2 | J |
| 24 | 348 | 7.4 | 36 | J | 6.1 | 21 | 184 | -4.7 | -0.0 | 1.9 | 3 | J |

### AUG. 22, 1981

234

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 8.8 | 0 | C | 6.7 | 20 | 155 | -5.2 | 2.7 | 1.6 | 2 | C |
| 2 | 370 | 9.4 | 0 | C | 7.0 | -25 | 123 | -3.1 | 4.0 | -3.5 | 3 | C |
| 3 | 379 | 9.3 | 0 | C | 7.4 | -40 | 106 | -1.5 | 4.0 | -5.7 | 1 | C |
| 4 | 369 | 10.0 | 0 | C | 7.2 | -3 | 142 | -5.2 | 3.8 | -1.6 | 2 | C |
| 5 | 370 | 9.7 | 0 | C | 7.3 | -14 | 143 | -5.1 | 3.0 | -2.8 | 3 | C |
| 6 | 366 | 9.6 | 0 | C | 7.4 | -16 | 144 | -5.6 | 3.0 | -3.4 | 1 | C |
| 7 | | | | | | | | | | | | |
| 8 | 347 | 9.6 | 0 | C | 7.4 | -3 | 166 | -7.0 | 1.4 | -1.2 | 1 | C |
| 9 | | | | | | | | | | | | |
| 10 | 352 | 10.2 | 0 | C | 7.6 | 8 | 155 | -6.7 | 3.2 | -0.8 | 1 | C |
| 11 | 360 | 10.5 | 0 | C | 7.6 | -2 | 153 | -6.8 | 2.8 | -2.1 | 0 | C |
| 12 | 368 | 12.1 | 0 | C | 5.6 | 39 | 185 | -4.1 | 1.5 | 3.0 | 1 | C |
| 13 | 368 | 12.8 | 0 | C | 6.4 | -28 | 138 | -2.5 | 1.0 | -2.7 | 5 | C |
| 14 | 362 | 12.4 | 0 | C | 6.5 | 38 | 159 | -3.8 | 2.8 | 2.1 | 3 | C |
| 15 | 364 | 13.0 | 0 | C | 6.2 | 19 | 163 | -4.8 | 2.1 | 0.8 | 3 | C |
| 16 | 373 | 16.0 | 0 | C | 7.4 | -11 | 150 | -5.0 | 2.2 | -2.2 | 4 | C |
| 17 | 393 | 22.1 | 0 | C | 9.9 | 42 | 118 | -2.8 | 6.7 | 3.1 | 5 | C |
| 18 | 365 | 21.0 | 0 | C | 10.4 | 2 | 135 | -6.7 | 6.5 | -1.7 | 3 | C |
| 19 | 363 | 17.7 | 0 | C | 10.3 | -16 | 131 | -6.0 | 6.0 | -4.3 | 3 | C |
| 20 | 379 | 13.2 | 0 | C | 11.4 | 2 | 143 | -8.5 | 6.2 | -1.0 | 4 | C |
| 21 | 371 | 13.1 | 0 | C | 11.4 | 12 | 171 | -10.7 | 2.2 | 2.0 | 1 | C |
| 22 | 394 | 12.9 | 0 | C | 11.3 | 34 | 142 | -6.3 | 5.6 | 4.5 | 5 | C |
| 23 | 385 | 13.3 | 0 | C | 11.4 | 3 | 127 | -5.8 | 7.7 | -0.6 | 5 | C |
| 24 | 385 | 13.5 | 0 | C | 11.5 | -17 | 135 | -6.3 | 5.8 | -3.7 | 6 | C |

### AUG. 17, 1981

229

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 429 | 16.9 | 70 | J | 8.3 | 50 | 98 | -0.6 | 5.1 | 4.5 | 6 | J |
| 2 | 454 | 25.4 | 138 | J | 9.8 | 44 | 116 | -1.8 | 4.4 | 3.3 | 8 | J |
| 3 | 436 | 27.2 | 636 | J | 8.6 | -2 | 153 | -6.9 | 3.3 | -1.1 | 4 | J |
| 4 | 431 | 22.1 | 0 | C | 9.1 | 39 | 169 | -6.9 | 2.8 | 5.1 | 1 | J |
| 5 | 444 | 21.3 | 163 | J | 9.8 | 78 | 213 | -1.3 | 1.6 | 7.4 | 6 | J |
| 6 | 457 | 21.7 | 114 | J | 9.5 | 47 | 265 | -0.6 | -3.3 | 8.6 | 2 | J |
| 7 | 449 | 27.6 | 86 | J | 5.5 | -72 | 270 | -0.0 | -3.0 | -3.2 | 3 | J |
| 8 | 440 | 26.6 | 87 | J | 6.4 | -52 | 104 | -0.7 | 0.8 | -4.5 | 5 | J |
| 9 | 424 | 21.3 | 73 | J | 8.8 | -73 | 260 | -0.4 | -6.3 | -6.1 | 1 | J |
| 10 | 425 | 21.8 | 82 | J | 9.2 | -79 | 353 | 1.7 | -4.6 | -7.4 | 2 | J |
| 11 | 427 | 21.1 | 82 | J | 9.0 | -64 | 25 | 3.4 | -2.6 | -7.4 | 3 | J |
| 12 | 424 | 24.1 | 0 | C | 8.5 | -67 | 336 | 2.8 | -4.9 | -5.6 | 3 | C |
| 13 | 418 | 24.1 | 0 | C | 5.2 | -44 | 47 | 2.4 | 0.5 | -4.2 | 2 | C |
| 14 | 418 | 23.2 | 0 | C | 5.0 | 17 | 85 | 0.4 | 4.3 | -0.8 | 2 | C |
| 15 | 393 | 14.3 | 0 | C | 9.1 | 71 | 152 | -2.5 | 4.8 | 6.8 | 3 | C |
| 16 | 383 | 14.5 | 0 | C | 10.6 | 62 | 181 | -3.5 | 2.6 | 6.1 | 7 | C |
| 17 | 420 | 17.1 | 0 | C | 9.6 | -7 | 259 | -1.5 | -7.9 | 1.9 | 5 | C |
| 18 | 406 | 13.6 | 0 | C | 9.5 | -18 | 266 | -0.6 | -9.2 | -0.2 | 3 | C |
| 19 | 431 | 8.9 | 43 | J | 10.3 | 3 | 98 | -0.7 | 5.1 | -1.0 | 9 | J |
| 20 | 433 | 7.6 | 48 | J | 9.6 | 5 | 103 | -2.1 | 9.0 | -0.9 | 2 | C |
| 21 | 435 | 11.1 | 64 | J | 8.4 | -1 | 99 | -1.2 | 7.7 | -1.4 | 3 | J |
| 22 | 439 | 11.6 | 93 | J | 5.4 | 35 | 192 | -2.1 | -0.2 | 1.5 | 5 | J |
| 23 | 427 | 11.7 | 97 | J | 7.6 | -37 | 172 | -4.9 | 0.2 | -3.8 | 5 | J |
| 24 | 448 | 7.3 | 64 | J | 8.5 | -14 | 97 | -1.0 | 7.8 | -3.2 | 1 | J |

### AUG. 19, 1981

231

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 450 | 7.3 | 103 | J | 5.2 | 5 | 136 | -3.4 | 3.3 | -0.1 | 2 | J |
| 2 | 454 | 6.2 | 80 | J | 5.5 | -2 | 138 | -3.4 | 3.0 | -0.8 | 3 | J |
| 3 | 450 | 5.7 | 76 | J | 5.4 | 8 | 185 | -4.3 | -0.2 | 0.7 | 3 | J |
| 4 | 459 | 5.6 | 59 | J | 5.7 | 6 | 135 | -3.6 | 3.6 | -0.5 | 3 | J |
| 5 | 480 | 5.6 | 68 | J | 5.9 | 82 | 122 | -0.4 | 2.4 | 4.8 | 2 | J |
| 6 | 447 | 4.8 | 53 | J | 6.0 | 37 | 144 | -3.7 | 3.8 | 2.2 | 2 | J |
| 7 | 463 | 5.7 | 62 | J | 6.0 | 31 | 142 | -3.6 | 3.7 | 1.3 | 3 | J |
| 8 | 462 | 5.8 | 53 | J | 5.9 | -1 | 138 | -3.8 | 3.0 | -1.7 | 3 | J |
| 9 | 466 | 6.1 | 73 | J | 5.4 | 29 | 175 | -3.5 | 1.2 | 1.5 | 4 | J |
| 10 | 463 | 6.0 | 69 | J | 5.7 | 26 | 140 | -3.5 | 3.7 | 0.4 | 3 | J |
| 11 | 478 | 6.1 | 73 | J | 5.1 | -1 | 112 | -1.6 | 3.4 | -2.2 | 2 | J |
| 12 | 447 | 5.5 | 58 | J | 5.2 | -15 | 158 | -3.8 | 0.7 | -1.7 | 3 | J |
| 13 | 460 | 5.9 | 59 | J | 5.3 | -31 | 157 | -4.0 | 0.1 | -3.1 | 1 | J |
| 14 | 448 | 6.5 | 0 | C | 5.2 | -32 | 141 | -3.1 | 1.0 | -3.4 | 2 | C |
| 15 | 451 | 5.2 | 60 | J | 5.0 | 6 | 156 | -3.7 | 1.7 | -0.4 | 3 | J |
| 16 | 454 | 5.5 | 68 | J | 5.1 | 60 | 156 | -2.1 | 2.5 | 3.3 | 2 | J |
| 17 | 440 | 6.5 | 0 | C | 5.3 | 28 | 157 | -4.0 | 2.4 | 1.6 | 1 | C |
| 18 | 441 | 5.5 | 87 | J | 5.1 | 44 | 145 | -2.5 | 2.5 | 2.3 | 3 | J |
| 19 | 446 | 5.2 | 81 | J | 5.2 | 5 | 116 | -2.0 | 4.0 | -0.6 | 2 | J |
| 20 | 435 | 5.7 | 93 | J | 4.6 | 12 | 104 | -0.9 | 3.7 | 0.0 | 3 | J |
| 21 | 416 | 5.7 | 47 | J | 4.7 | 23 | 175 | -3.8 | 0.6 | 1.5 | 2 | J |
| 22 | 443 | 6.4 | 59 | J | 4.9 | -26 | 131 | -1.4 | 1.4 | -1.2 | 4 | J |
| 23 | 410 | 5.5 | 44 | J | 4.8 | 21 | 192 | -3.9 | -0.6 | 1.6 | 2 | J |
| 24 | 412 | 5.3 | 43 | J | 4.7 | 30 | 172 | -3.7 | 0.8 | 2.0 | 2 | J |

### AUG. 21, 1981

233

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 8.8 | 33 | J | 6.6 | -23 | 216 | -3.5 | -2.8 | -1.4 | 5 | J |
| 2 | 357 | 7.7 | 18 | J | 6.5 | -10 | 194 | -5.4 | -1.5 | -0.7 | 3 | J |
| 3 | 340 | 7.8 | 35 | J | 6.3 | 9 | 197 | -5.4 | -1.4 | 1.3 | 3 | J |
| 4 | 369 | 9.8 | 27 | J | 6.6 | 26 | 152 | -4.6 | 3.1 | 1.8 | 3 | C |
| 5 | | | | | | | | | | | | |
| 6 | 357 | 9.3 | 21 | J | | | | | | | | |
| 7 | 346 | 9.7 | 51 | J | 6.5 | -49 | 86 | 0.2 | 1.6 | -5.5 | 3 | C |
| 8 | | | | | | | | | | | | |
| 9 | 359 | 10.5 | 0 | C | 6.1 | 29 | 143 | -3.6 | 3.6 | 0.8 | 3 | C |
| 10 | 356 | 10.3 | 0 | C | 7.1 | 13 | 158 | -5.7 | 2.7 | 0.0 | 3 | C |
| 11 | 357 | 8.5 | 0 | C | 7.6 | 18 | 138 | -4.7 | 4.7 | -0.5 | 3 | C |
| 12 | 358 | 7.8 | 0 | C | 7.7 | -14 | 106 | -1.9 | 4.8 | -5.1 | 2 | C |
| 13 | 363 | 7.5 | 0 | C | 7.7 | -39 | 102 | -1.2 | 2.5 | -7.0 | 1 | C |
| 14 | 364 | 8.3 | 0 | C | 7.1 | -25 | 108 | -1.9 | 3.6 | -5.2 | 2 | C |
| 15 | 370 | 8.3 | 0 | C | | | | | | | | |
| 16 | 370 | 8.3 | 0 | C | 7.4 | -50 | 124 | -2.6 | 1.2 | -6.6 | 1 | C |
| 17 | 374 | 8.6 | 0 | C | 7.2 | 31 | 143 | -4.1 | 4.0 | 1.7 | 4 | C |
| 18 | 367 | 8.4 | 0 | C | 7.4 | -40 | 118 | -2.6 | 3.2 | -5.7 | 2 | C |
| 19 | 388 | 8.6 | 0 | C | 7.7 | -53 | 103 | -1.1 | 2.8 | -7.0 | 0 | C |
| 20 | 376 | 9.1 | 0 | C | | | | | | | | |
| 21 | 376 | 9.1 | 0 | C | 6.4 | -47 | 108 | -1.2 | 2.9 | -4.8 | 1 | C |
| 22 | 375 | 9.3 | 0 | C | 6.4 | -22 | 125 | -2.9 | 3.7 | -2.7 | 3 | C |
| 23 | 379 | 9.0 | 0 | C | 6.3 | 37 | 148 | -3.5 | 2.6 | 2.8 | 3 | C |
| 24 | 379 | 9.1 | 0 | C | 6.1 | 29 | 121 | -2.3 | 4.3 | 1.9 | 2 | C |

### AUG. 23, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 13.4 | 0 | C | 12.0 | -40 | 126 | -4.1 | 4.5 | -6.8 | 7 | C |
| 2 | 384 | 12.3 | 0 | C | 11.6 | -18 | 130 | -6.1 | 6.6 | -4.7 | 5 | C |
| 3 | 384 | 11.2 | 0 | C | 11.4 | -32 | 125 | -5.2 | 5.8 | -7.2 | 4 | C |
| 4 | 386 | 10.1 | 0 | C | 12.1 | -27 | 112 | -4.0 | 7.8 | -8.1 | 1 | C |
| 5 | 353 | 10.2 | 0 | C | | | | | | | | |
| 6 | 353 | 10.2 | 0 | C | 11.6 | -4 | 142 | -9.0 | 6.2 | -3.4 | 1 | C |
| 7 | 361 | 10.9 | 0 | C | 11.3 | -2 | 134 | -7.7 | 7.0 | -3.7 | 2 | C |
| 8 | 380 | 9.7 | 0 | C | 11.6 | -24 | 101 | -2.1 | 7.0 | -9.0 | 0 | C |
| 9 | 380 | 9.7 | 0 | C | 11.1 | -32 | 97 | -1.1 | 4.9 | -9.5 | 2 | C |
| 10 | 370 | 10.1 | 0 | C | 10.6 | -32 | 103 | -1.9 | 4.4 | -9.1 | 2 | C |
| 11 | 352 | 9.6 | 0 | C | 11.2 | -9 | 116 | -4.7 | 7.1 | -6.5 | 2 | C |
| 12 | 354 | 6.2 | 0 | C | | | | | | | | |
| 13 | 354 | 6.2 | 0 | C | 9.7 | 14 | 129 | -5.5 | 6.9 | -1.7 | 3 | C |
| 14 | 441 | 18.5 | 0 | C | 20.2 | -25 | 122 | -9.2 | 8.8 | -14.6 | 5 | C |
| 15 | 453 | 29.5 | 0 | C | 17.1 | -5 | 128 | -9.3 | 10.1 | -6.8 | 7 | C |
| 16 | 455 | 33.0 | 0 | C | 17.0 | 10 | 123 | -8.6 | 13.1 | -3.0 | 6 | C |
| 17 | 436 | 34.6 | 0 | C | 16.7 | -8 | 292 | 4.4 | -10.8 | 2.3 | 12 | C |
| 18 | 421 | 26.8 | 0 | C | 19.6 | -1 | 302 | 10.4 | -15.7 | 5.0 | 2 | C |
| 19 | 420 | 23.8 | 0 | C | 19.0 | 1 | 309 | 11.9 | -14.2 | 4.3 | 1 | C |
| 20 | 418 | 23.2 | 0 | C | 20.2 | 21 | 307 | 11.2 | -12.8 | 10.0 | 4 | C |
| 21 | 407 | 18.1 | 0 | C | 20.9 | -1 | 308 | 9.8 | -12.3 | 2.0 | 13 | C |
| 22 | 445 | 34.8 | 0 | C | | | | | | | | |
| 23 | 445 | 34.8 | 0 | C | 7.6 | -54 | 89 | 0.1 | 2.1 | -4.0 | 6 | C |
| 24 | 422 | 31.6 | 0 | C | 12.4 | 37 | 321 | 7.1 | -4.4 | 7.7 | 5 | C |

# 08/24/81 – 08/31/81

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HR       VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                 1000  SC  MAGN LAT LON                     SC

                           AUG. 24, 1981
                                                            236
 1       430 31.2    0  C  10.7   0 324   8.1  -5.9   1.1  3  C
 2       434 24.3    0  C   9.8 -35 356   5.9  -1.2  -4.0  7  C
 3       439 17.1    0  C  11.1 -32 347   8.7  -3.4  -5.0  3  C
 4       445 16.8    0  C  10.8 -16 339   9.7  -4.4  -1.7  1  C
 5       411 12.4    0  C
 6       411 12.4    0  C  12.0  13 320   9.0  -5.8   5.3  1  C
 7       425 13.7    0  C  10.3  18 326   7.9  -3.5   5.1  2  C
 8       426 17.4    0  C   8.5 -20 317   5.6  -5.9   0.0  2  C
 9       424 12.3    0  C  10.7   1 294   4.1  -7.8   4.8  3  C
10       415 10.4    0  C  10.8   9 302   5.5  -6.7   6.0  2  C
11       420 12.0    0  C  10.0  61 288   1.4   0.8   9.3  3  C
12       406  6.6    0  C  12.4  15 302   6.2  -6.8   7.9  2  C
13       430  7.9    0  C  12.3  -7 304   6.9  -9.4   4.0  1  C
14       430  9.0    0  C  12.3 -10 303   6.6  -9.9   3.1  1  C
15       432  8.8    0  C  11.9 -57 321   4.9  -8.1  -6.8  2  C
16       434  9.1    0  C  11.2 -59 316   4.1  -7.5  -6.9  2  C
17       434  7.2    0  C  11.6 -25 299   5.1 -10.2  -1.1  2  C
18       428  6.2    0  C  11.6 -22 304   6.0  -9.8  -1.4  1  C
19       434  5.3    0  C  11.7 -23 308   6.6  -9.3  -2.2  1  C
20       452  5.4    0  C  10.5 -34 307   4.8  -7.3  -3.7  4  C
21       436  6.9    0  C   9.2 -55 310   3.3  -5.1  -6.3  3  C
22       415  9.4    0  C   6.9  18 314   3.7  -3.4   2.4  4  C
23       393  8.6    0  C  10.7 -48 302   3.7  -7.0  -6.6  4  C
24       436  3.7    0  C  12.1 -40 314   6.1  -7.4  -6.2  4  C
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         VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                 1000  SC  MAGN LAT LON                     SC

                           AUG. 25, 1981
                                                            237
         410  6.0    0  C  11.5 -21 311   7.0  -8.6  -2.5  2  C
         418  9.2    0  C   9.7   9 318   6.5  -5.3   2.7  4  C
         436 11.8    0  C   9.2  14 316   6.3  -5.3   3.7  1  C
         444 10.5    0  C  10.2  27 315   6.4  -4.8   6.3  0  C
         447 10.3    0  C  10.2  22 315   6.2  -4.6   5.5  4  C
         454 11.2    0  C   8.3  13 312   5.2  -4.6   3.9  2  C
         455  8.1    0  C   7.1  30 317   4.4  -2.1   4.8  1  C
         455  8.1    0  C   6.8  23 322   4.9  -2.1   4.2  0  C
         475  8.1    0  C   5.3 -58 303   0.6  -1.7  -1.1  5  C
         458  7.3    0  C   4.7 -35 300   1.6  -3.6  -0.5  2  C
         467  7.1    0  C   4.6 -42 310   1.6  -2.9  -0.9  3  C
         480  7.1    0  C
         456  6.9    0  C   4.4 -14   0   4.1  -0.5  -0.9  1  C
         456  7.1    0  C   4.1 -28 329   2.8  -2.3  -0.7  2  C
         466  7.4    0  C   4.0 -53 350   1.7  -1.3  -1.8  3  C
         461  7.7    0  C   4.4 -67   9   1.3  -1.2  -3.0  3  C
         458  7.5    0  C   4.2 -54  76   0.5   0.8  -3.2  2  C
         454  7.6    0  C   4.3 -12  91  -0.1   3.2  -1.8  2  C
         449  7.7    0  C
         476  8.9    0  C
         476  8.9    0  C   3.5   1 321   2.4  -1.9   0.4  1  C
         454  7.6    0  C   4.8  15 323   3.3  -2.2   1.5  2  C
         447  6.9    0  C   4.8  -2 324   3.4  -2.5   0.3  2  C
         454  7.3    0  C   4.4  16 295   1.4  -2.8   1.4  2  C
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                           AUG. 26, 1981
                                                            238
 1       458  7.3    0  C   4.9  47 266  -0.2  -2.1   3.3  3  C
 2
 3
 4
 5
 6
 7
 8
 9
10
11
12
13       398  8.0    0  C
14       398  8.0    0  C   7.6  -1 309   4.4  -4.7   2.5  2  C
15       407  8.2    0  C   6.6 -25 300   2.8  -5.7  -0.1  2  C
16       418 11.2    0  C   5.5 -69 256  -0.3  -2.8  -2.8  4  C
17       402 10.1    0  C   7.1 -35 304   3.2  -5.8  -1.9  2  C
18       414 11.0  162  L   5.6  36 116  -1.6   3.8   1.4  3  C
19       434 11.2   63  J   6.7  14 122  -3.1   5.1   0.1  2  J
20       434 11.7   57  J   6.0  64 106  -0.5   2.5   3.2  4  J
21       426 14.0   58  J   4.7  45 307   1.7  -1.6   3.1  2  J
22       414 16.2   33  J   3.6 -29 130  -1.2   1.3  -1.3  3  J
23       395  7.1   33  J   6.3  -4 127  -3.2   4.1  -1.1  3  J
24                          6.6  12 151  -3.8   2.3   0.6  5  J
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                           AUG. 27, 1981
                                                            239
         373  6.3   23  J   6.9   7 161  -6.0   2.2   0.4  2  J
         376  6.9   23  J   7.7  -3 144  -6.0   4.2  -1.3  1  J
         358  8.0    0  C   7.3  -3 178  -7.2   0.1  -0.4  1  J
         369  6.5   27  J   6.8  -6 168  -6.3   1.1  -1.1  2  J
         374  7.8   26  J   6.6   1 152  -5.3   2.7  -0.9  3  J
         368  7.7   27  J   7.0   2 161  -6.2   2.1  -0.7  2  J
         371  8.7   28  J   7.4   8 139  -5.2   4.4  -1.1  2  J
         370 10.0   25  J   7.5  17 131  -4.6   5.7  -0.7  1  J
         382 10.1   41  J   7.5   3 128  -4.3   4.9  -2.5  3  J
         362 11.8    0  C   7.1  -6 132  -4.5   3.8  -3.2  2  J
         371 15.1    0  C   6.9  29  87   0.3   5.9  -0.4  4  J
         391 16.6   54  J   8.5 -42 106  -1.6   1.9  -7.4  3  J
         415 28.2   64  J   8.5 -46  65   1.8   0.9  -5.7  6  J
         393 25.8    0  C   8.5 -62  58   1.8  -0.7  -6.8  5  J
         407 23.4   60  J  12.4  34 106  -2.4  10.3   1.3  6  J
         411 28.2    0  C  12.8  39 106  -2.7  12.0   3.2  2  J
         414 25.8    0  C  11.8  85   1   1.0   4.3  10.7  3  J
         444 14.7    0  C  15.4  -5 123  -6.2   8.8  -4.0 10  C
         477 15.1    0  C  10.0  55 323   2.2  -0.5   4.1  9  J
         507 10.8  169  J  10.8  -7 131  -5.0   5.4  -2.2  8  J
         522 10.6  234  J  11.0  -3 119  -4.5   7.8  -2.1  6  J
         538 12.9    0  C  11.2  18 116  -3.8   8.2   1.5  6  C
         536 13.1    0  C  10.7  12 122  -5.2   8.5   0.7  3  C
         518 10.1    0  C   6.6  21 177  -5.0   0.6   1.9  3  C
```

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                           AUG. 28, 1981
                                                            240
 1       530  7.2    0  C   6.6   0 157  -5.6   2.3  -0.4  2  C
 2       532  7.0    0  C   6.7  -4 145  -4.8   3.3  -1.1  3  C
 3       533  7.5    0  C   6.7  26 111  -2.0   5.8   1.3  2  C
 4       526  8.1    0  C   6.6  -6 133  -4.1   4.0  -2.0  2  C
 5       521  8.3    0  C   6.9  20 114  -2.5   6.1   0.1  1  C
 6       518  8.6    0  C   6.5  20 134  -3.1   3.5   0.2  4  C
 7       509  7.3   51  J   6.1  27 201  -4.7  -0.5   3.1  2  J
 8       511  7.7   71  J   6.2  16 145  -4.1   3.2  -0.1  3  J
 9       514  7.1   82  J   6.5  13 135  -3.9   4.0  -0.9  3  J
10       506  7.5   71  J   6.9 -37 176  -5.1  -1.8  -3.4  2  J
11                          7.0 -16 164  -6.3   0.5  -2.6  1  J
12       491  8.0   72  J   7.5  22 144  -5.2   4.6   0.1  3  J
13       488  8.1   79  J   7.4  10 158  -6.6   3.0  -0.3  1  C
14       487  7.7   69  J   7.2  22 163  -6.4   3.0   1.3  1  J
15       482  7.6  105  J   6.9 -13 127  -4.0   4.0  -3.8  1  J
16       482  7.6   86  J   6.6 -28 120  -2.5   2.8  -4.3  3  J
17       471  8.7    0  C   7.5  -5 120  -3.6   5.4  -2.9  2  C
18       457  8.5    0  C   7.3 -14 128  -3.8   4.1  -3.1  3  C
19       443  7.1   72  J   7.0  15 152  -5.5   3.3   0.8  3  J
20       455  7.5   48  J   7.3   5 134  -4.7   4.9  -0.6  3  J
21       456  6.5   44  J   7.3   6 116  -3.0   6.3  -0.5  2  J
22       474  7.1   57  J   6.7 -35 120  -2.3   3.4  -3.9  3  J
23       470  8.2   62  J   6.5 -13 128  -3.2   3.8  -1.9  2  J
24       451  7.1   43  J   6.6  -4 123  -3.1   4.7  -1.3  3  J
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                           AUG. 29, 1981
                                                            241
         447  6.4   62  J   6.4 -14 109  -1.9   5.1  -2.5  2  J
         406  5.9   53  J   6.9 -20 133  -4.2   3.8  -3.2  2  J
         389  7.1    0  C   7.7  13 144  -5.8   4.6   0.5  2  C
         426  6.9   37  J   7.3  -3 102  -1.0   4.5  -1.7  4  J
         420  6.9   34  J   7.2   8 101  -1.3   6.5  -1.5  2  J
         406  6.8   43  J   7.6 -14 136  -4.7   3.5  -3.3  4  J
         399  7.4   45  J   7.8 -41 161  -4.9  -0.5  -4.8  4  J
         385  7.4   60  J   8.7 -18 134  -5.5   3.7  -5.1  2  J
         379  7.3   21  J   9.5 -21 147  -7.3   2.3  -5.3  2  J
         382  8.5    0  C   9.8 -22 139  -6.9   3.1  -6.3  1  J
         371  9.1    0  C  10.3 -14 173  -9.4  -0.3  -2.6  3  C
         389  7.9    0  C  10.7   0 117  -4.5   7.5  -4.9  3  C
         393  7.3    0  C  10.6 -63 145  -1.6  -1.1  -3.9 10  J
         422  5.7   98  J  11.0 -10 127  -6.2   6.2  -5.8  3  J
         409  5.3   91  J  10.6  -5 130  -6.5   6.5  -4.5  3  J
         432  5.3  113  J  10.4  -8 120  -4.8   7.0  -4.8  3  J
         407  4.4   95  J  10.5  -4 134  -7.0   6.4  -3.4  3  J
         411  4.1  101  J  10.3  -6 131  -6.7   6.9  -3.5  1  J
         383  4.3  164  L  10.3   8 136  -7.2   7.1  -0.6  2  J
         395  5.3   87  J  10.5  21 127  -5.7   8.2   1.7  3  J
         377  7.2    0  C  11.0  29 123  -5.1   8.8   3.4  2  C
         409  3.4   37  J  11.9  39 106  -2.5   9.9   5.6  2  J
         409  2.7   31  J  12.1  28 101  -2.0  11.1   3.7  2  J
         426  1.6   48  J  11.8   6 109  -3.7  10.8  -0.8  3  J
```

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                           AUG. 30, 1981
                                                            242
 1       409  4.1    0  C  10.7  -9 105  -2.6   9.0  -3.4  4  J
 2       485  3.4   73  J  10.4  -8  59   5.1   7.9  -3.3  3  J
 3       486  3.5   64  J  10.8 -24  48   6.4   5.7  -6.0  3  J
 4       376  3.2   72  J  10.4  -5 120  -4.8   7.6  -3.4  4  J
 5       391  4.5    0  C  10.9  -5  88   0.4   9.4  -4.6  3  C
 6       389  4.4    0  C  10.2  -2 113  -4.0   8.4  -4.2  0  J
 7       390  3.1   37  J  10.1   5 110  -3.4   8.7  -3.5  1  J
 8       377  3.8   40  J   9.6  10 115  -3.9   8.1  -2.7  2  J
 9       351  7.0   26  J   9.1   3 112  -3.4   7.4  -3.9  1  J
10       346  8.6    0  C   8.9  -1 113  -3.5   6.8  -4.5  1  C
11       349  9.7    0  C   9.2 -10 119  -4.3   5.6  -5.4  3  C
12       344 10.0    0  C  12.1 -13 131  -7.7   6.0  -7.2  1  C
13       342 10.1    0  C  11.2 -15 131  -7.0   5.4  -6.7  1  C
14       351 10.7    0  C  10.0  -9 121  -4.9   6.4  -5.5  2  C
15       366  8.1   43  J   8.8  16 100  -1.4   8.0  -1.7  3  J
16       362  7.4   82  J   8.3  13 123  -4.3   6.8  -1.2  2  J
17       396  8.6   78  J   7.1  57 322   3.0   0.1   6.2  1  J
18       361  6.7   55  J   6.7  34 120  -2.6   5.3   1.8  2  J
19       345  6.4   69  J   6.5  33 134  -3.7   4.7   2.3  1  J
20       341  5.7   38  J   6.2 -12 151  -4.4   2.1  -1.6  4  J
21       341  6.3   37  J   5.5 -24 157  -4.3   1.4  -2.4  2  J
22       337  6.1   32  J   5.1 -22 187  -3.3  -0.6  -1.3  4  J
23       374 12.4   83  J   8.4 -24 180  -3.7  -0.3  -1.6  7  J
24       398 15.6   66  J  10.7  39 258  -1.4  -5.6   6.7  6  J
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                           AUG. 31, 1981
                                                            243
         422 20.1  105  J  11.9  46 275   0.5  -4.1   6.5  9  J
         420 21.0  123  J  14.4  37 120  -5.4  11.0   5.7  5  J
         431 17.8  154  J  13.5   9 106  -3.4  11.9  -1.3  5  J
         462 14.0  177  J  14.0 -22  94  -0.5   6.4  -5.5 11  J
         467 13.7  108  J  15.2  86 107  -0.3   6.5  13.7  2  J
         467 11.0  102  J  14.5  87 128  -0.5   6.5  12.9  1  J
         463 15.1   73  J  12.6  87 107  -0.2   6.3  10.9  1  J
         460 13.9   52  J  11.5  86 112  -0.3   6.3   9.5  1  J
         463 23.1   45  J   8.6  85 118  -0.3   5.0   6.9  1  J
         462 21.3   49  J   8.9  69 146  -2.6   5.8   5.8  3  J
         461 16.9   32  J   8.9  53 132  -2.9   5.9   3.1  5  J


         439 12.4    0  C
         456 12.6   26  J   5.4  66 112  -0.8   4.1   3.3  1  J
         458 11.2   26  J   5.8  56 107  -0.9   4.8   3.0  0  J
         449  8.3    0  C   5.0  16 168  -4.6   1.5   0.9  1  C
         445  7.8    0  C   4.9   7 171  -4.8   0.9   0.3  0  C
         440  8.0    0  C   4.8   5 171  -4.7   0.8   0.2  1  C
         446  8.0    0  C   4.7  15 170  -4.5   1.1   1.0  0  C
         447  7.6    0  C   4.6  28 159  -3.8   1.9   1.8  0  C
         443  8.0    0  C   4.7  29 160  -3.9   1.8   2.0  0  C
         431  8.1    0  C   4.8  48 132  -2.0   2.9   3.0  1  C
         449  7.4   28  J   5.3  44 142  -2.8   2.8   3.0  2  J
```

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HR    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                      SC

                        SEP. 1, 1981                       244

 1    450  6.9   21  J    5.4  56 149  -2.5   2.4   3.9  1  J
 2    441  6.1   18  J    5.4  52 143  -2.7   2.9   3.7  0  J
 3    432  3.9   19  L    5.4  69  89   0.0   3.2   4.2  1  J
 4    433  6.2   20  J    5.2  62 146  -1.9   2.7   3.8  1  C
 5    437  7.5   27  J    5.2  67 151  -1.7   2.6   3.9  1  C
 6    412  8.3    0  C    5.6  59 134  -1.9   3.7   3.3  1  C
 7    403  7.2    0  C    6.0  76  77   0.3   3.8   4.4  1  C
 8    396  6.8    0  C    5.9  72  45   1.3   3.9   4.2  1  C
 9    393  6.1    0  C    6.1  61 125  -1.7   4.8   3.3  0  C
10    467  1.9  245  J    6.5  37 150  -4.3   4.1   1.8  2  C
11    367  4.7    0  C    6.8  32 153  -5.1   4.1   1.6  1  C
12    374  4.0    0  C    7.0  29 145  -5.0   4.8   0.9  0  C
13    378  5.4    0  C
14    378  5.4    0  C    6.6  14 142  -5.0   4.1  -0.7  0  C
15    401  5.8    0  C    6.7  13 166  -6.2   2.1   0.5  1  C
16    421  4.9    0  C    7.0  22 161  -5.9   2.9   1.4  2  C
17    412  6.9    0  C    6.6  23 157  -5.5   3.1   1.5  1  C
18    401  9.3    0  C    6.2  21 151  -5.0   3.4   1.2  0  C
19    408  7.2   18  J    6.9  29 157  -5.4   3.1   2.5  2  J
20    403  7.8   21  J    7.0   5 163  -6.4   2.0   0.1  2  J
21                        7.5  -5 153  -6.6   3.1  -1.3  1  J
22    390  7.3    0  C    7.5  39 141  -4.5   4.5   4.0  1  C
23    390  7.3    0  C    8.4  -3 151  -7.3   3.9  -1.2  1  J
24    397  4.6    0  C    8.2  -8 158  -7.5   2.8  -1.7  1  J

                        SEP. 3, 1981                       246

 1    371 25.9   37  J    8.9  23 329   6.9  -3.4   4.2  2  J
 2    372 24.4   32  J    8.4   9 313   5.7  -5.6   2.7  1  J
 3    378 20.0   40  J    9.7   9 311   6.1  -6.3   3.4  3  J
 4    383 12.4    0  C   14.2  44 320   7.6  -3.0  11.0  3  C
 5    402  9.3    0  C   14.7  22 320  10.0  -5.9   7.9  4  C
 6    441  5.6    0  C   14.2  17 320  10.3  -6.1   7.4  2  C
 7    459  8.0    0  C   12.6  -3 291   4.1 -10.1   4.5  4  C
 8    454 10.4    0  C   11.2  -1 289   3.3  -8.3   4.6  4  C
 9    441 10.6    0  C   11.2  -6 312   6.3  -6.4   2.8  6  C
10    431 10.4    0  C   10.5  19 296   4.0  -5.1   7.1  4  C
11    427 10.9    0  C    8.3  15 304   4.1  -4.0   5.1  0  C
12    427  8.7    0  C    8.3 -13 283   1.8  -7.3   2.7  2  C
13    427  8.7    0  C    8.0  -4 295   2.8  -5.3   2.8  4  C
14    431  7.4    0  C    6.8 -11 317   2.1  -2.0   0.5  6  C
15    439  5.0    0  C    7.9 -32 216  -4.5  -4.6  -1.5  4  C
16    464  4.5    0  C    6.9  -4 319   3.2  -2.6   1.0  5  C
17    478  4.3    0  C    8.6  16 304   4.2  -5.0   4.5  3  C
18    486  3.7    0  C    8.6  18 305   4.6  -5.4   4.7  1  C
19    493  3.8    0  C    8.8   4 302   4.6  -6.8   2.8  1  C
20    498  3.5    0  C    8.5   7 309   5.3  -6.0   2.5  1  C
21    478  3.2    0  C    8.1   7 314   5.4  -5.2   2.2  2  C
22    442  3.7    0  C    6.8  -5 315   4.6  -4.6   0.4  2  C
23    463  3.8    0  C    5.9 -10 321   4.4  -3.7  -0.4  1  C
24    456  3.4    0  C    5.4 -20 310   3.1  -4.0  -1.1  1  C

                        SEP. 5, 1981                       248

 1    402 16.1    0  C   10.7 -56 206  -5.2  -4.4  -7.9  2  C
 2    401 12.4    0  C   10.5 -54 175  -6.1  -1.5  -8.2  1  C
 3    405  7.8    0  C   10.7 -16 275   0.7  -9.2   0.1  5  C
 4    433  7.4    0  C
 5    445  6.9    0  C   10.6 -40 244  -3.1  -7.9  -3.0  4  C
 6    433  7.2    0  C   11.2 -21 283   2.0  -9.4   0.6  5  C
 7    438  7.9    0  C   11.1 -17 289   3.2  -9.7   1.8  3  C
 8    435  8.1    0  C   10.7 -14 310   6.4  -7.8   1.7  3  C
 9    451  6.9    0  C   11.6 -12 276   1.1 -10.3   3.8  3  C
10    451  6.9    0  C   10.2 -25 275   0.7  -8.0   1.2  5  C
11    486  6.4    0  C    9.9 -12 292   3.2  -7.8   3.0  3  C
12    464  6.8    0  C    8.6  -8 332   6.7  -3.6   1.1  4  C
13    471  6.5    0  C    8.2  17  22   5.2   2.7   0.3  6  C
14    460  7.1    0  C    8.0  18 334   6.3  -1.4   3.6  2  C
15    461  6.7    0  C    8.0  -4 333   6.0  -2.9   1.1  4  C
16    471  6.5    0  C    8.1 -11 307   3.9  -5.2   1.1  4  C
17    486  5.0    0  C    9.2  -6 252  -2.6  -7.8   2.3  3  C
18    487  4.4    0  C    8.5  -5 288   2.5  -7.5   2.0  2  C
19    475  3.8    0  C    6.9  -3 296   2.7  -5.5   1.3  2  C
20    475  3.6    0  C    6.6   5 315   4.5  -4.2   1.7  1  C
21    463  3.5    0  C    6.9  -9 330   5.9  -3.5  -0.3  0  C
22    463  3.5    0  C    6.4 -19 341   5.4  -2.3  -1.5  1  C
23    482  3.9    0  C    5.8 -37 325   2.9  -2.5  -2.2  3  C
24    483  4.5    0  C    5.6 -30 301   1.8  -3.4  -1.4  3  C

                        SEP. 7, 1981                       250

 1    382  7.6    0  C    5.2  29 308   2.5  -2.6   2.9  2  C
 2    380  7.5    0  C    5.3  36 277   0.5  -2.9   3.4  2  C
 3    382  7.8    0  C    5.4   9 285   1.0  -3.5   1.7  3  C
 4    376  8.1    0  C    5.6  -5 326   2.6  -1.7   0.3  4  C
 5    380  7.8    0  C    5.5 -70 341   1.1  -1.6  -3.0  4  C
 6    389  7.5    0  C    5.7  -7 245  -2.1  -4.4   1.4  2  C
 7    380  7.4    0  C    5.5   8 245  -2.1  -3.7   2.7  2  C
 8    376  6.8    0  C    5.8  24 253  -1.5  -3.1   4.5  1  C
 9    376  6.9    0  C    5.3  25 260  -0.8  -2.7   4.2  1  C
10    372  7.5    0  C    5.1   7 295   2.0  -3.3   2.8  2  C
11    369  7.9    0  C    5.0   7 291   0.9  -1.8   1.7  4  C
12    371  7.9    0  C    5.3  41 273   0.2  -1.4   5.0  1  C
13
14    371  7.9    0  C    5.7  18 343   5.2  -0.4   2.3  0  C
15    371  7.9    0  C    5.6  14 333   3.3  -1.1   1.6  4  C
16    369  7.8    0  C    5.5  29 284   1.0  -2.5   3.6  3  C
17    372  7.3    0  C    4.9  17 268  -0.1  -2.1   1.8  4  C
18    377  8.6    0  C    5.0 -69  77   0.3   0.0  -4.4  2  C
19    371  8.8    0  C    5.5 -54  61   1.4   1.2  -4.3  2  C
20    371  8.4    0  C    5.5 -44  33   2.8   1.0  -3.6  3  C
21    367  8.8    0  C    4.7  -7  25   4.0   1.7  -0.9  0  C
22    368  9.0    0  C    5.2   9   6   3.5   0.5   0.5  3  C
23    373  8.7    0  C    5.9  31 271   0.1  -4.1   3.7  1  C
24    373  9.0    0  C    5.9  47 316   1.9  -1.2   3.1  4  C
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 VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
           1000  SC  MAGN LAT LON                      SC

                   SEP. 2, 1981                       245

 401  5.1    0  C    8.7 -18 145  -6.7   4.0  -3.6  1  C
 386  4.5    0  C    8.8 -21 148  -7.0   3.5  -4.0  0  C


                     8.9 -16 124  -4.7   5.6  -4.8  2  J
 399  7.1   33  J    8.4 -19 129  -4.9   4.4  -4.9  1  J
 403  7.2   41  J    7.4 -28 149  -5.4   1.3  -4.4  2  J
 390  7.5   59  J    7.8 -11 139  -5.3   3.3  -3.5  3  J
 423  8.4   47  J    7.7 -77  10   1.3  -2.8  -4.9  5  J
 397  7.9   66  J    7.1 -37 133  -3.7   1.1  -5.6  2  J
 376  9.6    0  C    7.1 -11 164  -6.1   0.8  -2.0  3  J
 374  7.7   33  J    7.1 -35 180  -3.5  -1.4  -2.1  5  J
 375  8.0   25  J    7.4 -27 153  -4.8   0.6  -3.6  4  J
 372 10.9    0  C    8.1 -21 148  -6.2   1.9  -4.4  1  C
 366 12.2    0  C    8.0 -33 146  -5.3   1.1  -5.4  2  C
 387  9.9   42  J    7.6 -72 198  -2.0  -3.4  -5.6  3  J
 393 17.7   45  J    3.6 -41  67   0.5   0.7  -1.5  3  J
 393 22.0   41  J    3.7 -45 316   1.7  -2.3  -1.7  2  J
 385 20.3   37  J    5.1 -25  78   0.8   3.3  -3.0  2  J
 384 19.4   31  J    4.5 -36  92  -0.1   2.3  -2.8  2  J
 379 22.5    0  C    4.9  12 115  -2.0   4.5   0.1  0  C
 366 21.7    0  C    5.0  46  70   0.7   2.5   1.8  4  C
 367 21.6    0  C    5.6 -39 326   1.0  -0.9  -0.9  5  C
 373 24.6   36  J    8.4  -4 335   7.2  -3.4   0.1  2  J

                   SEP. 4, 1981                       247

 432  4.1    0  C    4.2 -20 318   2.9  -2.8  -0.8  1  C
 418  4.7    0  C    3.1 -27 320   2.1  -2.0  -0.9  0  C
 409  5.1    0  C    3.2 -13 312   2.0  -2.3  -0.1  1  C
 390  4.5    0  C    3.7   7 318   2.6  -2.2   1.2  0  C
 390  4.5    0  C    3.4   8 304   1.8  -2.3   1.4  1  C
 392  4.4    0  C    3.4 -10 286   0.8  -2.8   0.7  1  C
 334  4.5    0  C    3.9 -35 295   1.3  -3.6  -0.6  0  C
 334  4.5    0  C    4.0 -44 296   1.3  -3.6  -1.1  0  C
 379  4.8    0  C    4.2 -43 294   1.2  -3.9  -1.0  0  C
 359  5.4    0  C    5.2 -47 313   2.4  -4.2  -1.8  1  C
 367  7.2    0  C    3.9 -56 295   0.8  -3.1  -1.4  1  C
 351 11.0    0  C
 351 11.0    0  C    5.2 -85 124  -0.2  -2.0  -3.7  3  C
 351 11.3    0  C    5.9   1 134  -4.1   3.6  -2.0  1  C
 354 12.3    0  C    5.5  -1 137  -3.9   3.2  -1.8  1  C
 361 14.7    0  C    5.5  -9 151  -4.7   2.0  -1.9  1  C
 361 14.3    0  C    7.8 -14 145  -6.1   3.2  -3.5  1  C
 358 16.7    0  C    8.5  -4 142  -6.5   4.6  -2.2  2  C
 355 19.6    0  C    8.4 -15 147  -5.8   3.0  -2.9  4  C
 359 21.0    0  C    7.9   2 134  -5.4   5.5  -1.1  1  C
 373 15.9    0  C   10.1 -42 175  -7.4  -0.8  -6.6  1  C
 376 18.8    0  C    6.8 -44 251  -0.7  -2.4  -1.6  7  C
 376 16.7    0  C   10.9 -43 304   2.8  -5.0  -3.8  8  C
 391 17.2    0  C    9.8 -34 143  -4.8   2.8  -4.8  6  C

                   SEP. 6, 1981                       249

 468  4.8    0  C    5.5  -8 317   2.8  -2.7   0.0  3  C
 457  5.1    0  C    5.2   6 301   2.4  -3.8   1.4  1  C
 443  5.3    0  C    5.5 -18 340   4.4  -2.0  -1.0  2  C
 447  5.3    0  C    5.1  -1 305   2.2  -2.9   0.9  3  C
 447  5.3    0  C    5.3 -14 288   1.2  -3.8   0.5  3  C
 433  5.4    0  C    5.0  -5 336   4.1  -1.8   0.5  2  C
 423  5.5    0  C    4.6  17 336   3.7  -0.8   1.8  2  C
 422  5.8    0  C    4.5  -4   9   4.3   0.4  -0.6  0  C
 423  6.4    0  C    4.7  29 356   3.6   0.9   1.9  2  C
 415  6.5    0  C    4.8  -4 354   4.6  -0.6  -0.0  1  C
 411  6.6    0  C    4.8 -19 354   4.4  -1.3  -1.0  0  C
 408  6.7    0  C    4.4 -10 342   3.1  -1.2   0.1  2  C
 415  6.9    0  C    4.6  19 291   1.4  -2.5   3.3  1  C
 416  6.9    0  C    4.9  10 221  -3.3  -2.0   2.1  2  C
 407  7.0    0  C    5.2  42 279   0.4  -1.2   3.5  3  C
 407  7.0    0  C    5.2  11 261  -0.7  -3.7   2.8  2  C
 403  6.9    0  C    5.5  -5 270   0.0  -4.5   1.5  2  C
 397  6.8    0  C    4.7   5 285   0.8  -2.7   1.3  3  C
 387  7.0    0  C    4.3  11 343   3.1  -0.7   0.9  3  C
 395  7.1    0  C    4.5   2 285   1.0  -3.3   1.0  2  C
 398  7.4    0  C    5.3  32 249  -1.5  -3.2   3.3  1  C
 401  7.5    0  C    5.0 -20 259  -0.6  -3.3  -0.5  3  C
 397  7.5    0  C    5.5   0 256  -1.2  -4.7   0.9  2  C
 389  7.5    0  C    5.1  27 277   0.3  -2.5   2.0  3  C

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 376  7.5   48  J    6.0   4 287   1.5  -4.7   1.4  3  C
 354  6.5   39  J    5.8  -8 333   3.9  -2.1  -0.1  3  C
 368  9.6    0  C    6.3 -45  16   3.9  -0.1  -4.1  2  C
 357  8.5   45  J    6.8 -53 347   3.6  -2.4  -4.3  2  C
 355  8.6   49  J    6.9 -29   5   5.2  -0.7  -2.9  3  C
 360  9.5   53  J    7.5 -26 340   5.8  -3.2  -1.9  2  C
 369  9.0   46  J    7.2  50 332   3.5   0.6   5.1  4  J
 382  8.7   35  J    7.6  14 278   1.0  -5.0   5.0  3  J
 382  8.9   40  J    7.3  18 278   0.9  -4.2   5.1  3  J
 343  9.6   63  J    7.1  23  17   5.8   2.9   1.2  2  J
 358  9.5    0  C    6.9  37 298   2.5  -1.6   5.9  2  C
 354  8.6   54  J    6.9  24 293   2.3  -3.0   5.2  2  J
 382  8.6   37  J    6.5  10 263  -0.7  -4.3   4.0  3  J
 359  8.7    0  C    6.5  32 266  -0.4  -2.7   5.6  1  C
 376  7.8   45  J    6.6  31 280   0.8  -2.5   4.5  4  J
 359  8.5    0  C    6.6  34 288   1.6  -2.9   5.3  2  J
 352  8.6    0  C    6.3   4 292   2.1  -4.6   2.4  3  J
 350  8.7    0  C    6.4  23 288   1.7  -4.2   4.1  2  J
 347  8.1   44  J    6.6  38 303   2.7  -2.8   4.9  2  J
 351  7.4   35  J    6.1  39 309   2.7  -2.3   4.2  3  J
 349  7.2   34  J    5.7  20 299   2.4  -3.8   2.7  2  J
 350  8.6    0  C    6.3  15 307   3.5  -4.2   2.5  2  J
 436 25.9    0  C   13.6   7 284   2.7 -10.6   3.6  7  C
 444 27.4    0  C   14.7  12 267  -0.6 -11.4   5.0  7  C
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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 426 | 30.2 | 0 | C | 11.3 | 2 | 303 | 5.3 | -8.0 | 2.1 | 5 | C |
| 2 | 411 | 31.0 | 0 | C | | | | | | | | |
| 3 | | | | | 12.4 | 1 | 353 | 11.9 | -1.4 | 0.6 | 3 | J |
| 4 | 377 | 15.8 | 77 | J | 11.7 | 6 | 337 | 10.0 | -3.6 | 2.5 | 4 | J |
| 5 | 383 | 15.5 | 137 | J | 11.2 | 4 | 344 | 10.5 | -2.5 | 1.9 | 2 | J |
| 6 | 377 | 13.7 | 109 | J | 10.8 | 5 | 338 | 9.7 | -3.2 | 2.5 | 2 | J |
| 7 | 368 | 12.9 | 71 | J | 10.5 | 6 | 341 | 9.6 | -2.4 | 2.5 | 2 | J |
| 8 | 387 | 14.4 | 78 | J | 9.9 | -4 | 347 | 5.7 | -1.4 | 0.3 | 8 | J |
| 9 | 421 | 20.9 | 0 | C | 9.2 | 13 | 227 | -6.1 | -4.4 | 5.3 | 1 | J |
| 10 | 408 | 19.1 | 66 | J | 9.3 | 31 | 245 | -3.0 | -3.0 | 7.1 | 4 | J |
| 11 | | | | | | | | | | | | |
| 12 | 385 | 22.7 | 0 | C | 6.8 | 25 | 260 | -1.1 | -3.3 | 5.6 | 1 | C |
| 13 | 386 | 20.4 | 60 | J | 7.5 | 24 | 290 | 2.0 | -3.2 | 5.2 | 4 | J |
| 14 | 373 | 19.6 | 53 | J | 8.9 | -2 | 322 | 6.7 | -4.6 | 2.5 | 3 | J |
| 15 | 405 | 17.7 | 68 | J | 10.1 | 38 | 235 | -3.8 | -2.2 | 7.2 | 6 | J |
| 16 | 415 | 21.6 | 0 | C | 9.7 | 49 | 195 | -5.8 | 1.6 | 6.8 | 3 | C |
| 17 | 404 | 17.5 | 0 | C | 8.7 | 25 | 71 | 2.5 | 8.1 | 0.5 | 2 | C |
| 18 | 409 | 17.6 | 0 | C | 7.1 | 11 | 70 | 2.3 | 6.4 | -0.9 | 1 | C |
| 19 | | | | | | | | | | | | |
| 20 | 418 | 14.1 | 63 | J | 4.1 | -1 | 223 | -2.6 | -2.4 | 0.6 | 2 | J |
| 21 | 402 | 14.7 | 54 | J | 3.4 | -22 | 207 | -2.0 | -1.2 | -0.6 | 3 | J |
| 22 | 402 | 17.4 | 43 | J | 3.6 | -43 | 280 | 0.3 | -1.9 | -1.2 | 3 | J |
| 23 | 397 | 13.2 | 45 | J | 5.7 | -23 | 316 | 2.7 | -2.9 | -1.0 | 4 | J |
| 24 | 395 | 15.5 | 47 | J | 5.8 | -5 | 278 | 0.6 | -4.6 | 0.5 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 4.1 | 23 | J | 11.0 | -17 | 247 | -4.1 | -10.1 | -1.0 | 1 | J |
| 2 | 407 | 13.3 | 18 | J | 11.0 | -33 | 252 | -2.8 | -9.8 | -3.5 | 2 | J |
| 3 | 405 | 16.9 | 17 | J | 11.8 | -50 | 267 | -0.3 | -9.8 | -6.3 | 1 | C |
| 4 | 401 | 16.7 | 26 | J | 11.8 | -59 | 272 | 0.2 | -9.1 | -7.4 | 1 | J |
| 5 | 387 | 14.5 | 20 | J | 11.3 | -64 | 291 | 1.8 | -8.2 | -7.6 | 1 | J |
| 6 | 383 | 14.9 | 22 | J | 11.3 | -60 | 303 | 3.1 | -8.5 | -6.8 | 1 | J |
| 7 | 382 | 17.1 | 23 | J | 11.0 | -66 | 313 | 3.0 | -7.6 | -7.2 | 1 | J |
| 8 | 393 | 15.6 | 0 | C | 7.6 | -52 | 356 | 4.5 | -3.3 | -4.8 | 2 | C |
| 9 | 379 | 18.3 | 33 | J | 6.5 | -87 | 109 | -0.1 | -3.2 | -5.5 | 1 | J |
| 10 | 393 | 13.4 | 0 | C | 7.2 | -41 | 11 | 5.3 | -1.7 | -4.5 | 1 | C |
| 11 | 403 | 11.9 | 0 | C | 7.0 | -43 | 5 | 5.1 | -2.3 | -4.2 | 0 | C |
| 12 | 409 | 11.1 | 0 | C | 6.1 | -33 | 14 | 5.0 | -0.9 | -3.4 | 0 | C |
| 13 | 413 | 9.7 | 0 | C | 6.1 | -26 | 24 | 5.0 | 0.4 | -3.4 | 0 | C |
| 14 | 418 | 10.8 | 32 | J | 6.1 | -30 | 21 | 4.9 | 0.0 | -3.5 | 1 | J |
| 15 | 415 | 10.9 | 26 | J | 5.7 | -30 | 23 | 4.5 | 0.3 | -3.4 | 0 | J |
| 16 | 396 | 9.6 | 0 | C | 5.6 | -30 | 36 | 3.9 | 1.3 | -3.7 | 1 | C |
| 17 | 386 | 10.2 | 0 | C | 4.0 | -29 | 39 | 2.6 | 1.1 | -2.5 | 1 | C |
| 18 | 413 | 9.7 | 24 | J | 5.2 | -5 | 13 | 4.7 | 0.9 | -0.8 | 1 | J |
| 19 | 409 | 10.0 | 21 | J | 5.2 | -7 | 13 | 4.7 | 0.9 | -0.9 | 2 | J |
| 20 | 370 | 9.3 | 0 | C | 4.3 | -28 | 36 | 3.1 | 1.6 | -2.5 | 0 | C |
| 21 | 369 | 9.0 | 0 | C | 3.8 | -12 | 159 | -3.1 | 1.0 | -0.9 | 2 | C |
| 22 | 359 | 8.1 | 0 | C | 4.7 | -5 | 187 | -4.1 | -0.6 | -0.2 | 2 | C |
| 23 | 359 | 6.4 | 38 | J | 3.8 | 5 | 189 | -3.4 | -0.5 | 0.4 | 2 | J |
| 24 | 359 | 7.5 | 35 | J | 4.5 | 8 | 203 | -3.6 | -1.4 | 0.9 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 335 | 8.1 | 34 | J | 6.6 | 13 | 155 | -5.4 | 2.8 | 0.8 | 3 | J |
| 2 | 364 | 7.5 | 28 | J | 7.8 | -12 | 107 | -2.1 | 6.2 | -3.2 | 3 | J |
| 3 | 338 | 9.8 | 0 | C | 8.0 | 9 | 155 | -6.5 | 3.3 | 0.2 | 3 | C |
| 4 | 337 | 7.1 | 25 | J | 8.0 | -8 | 124 | -4.3 | 5.6 | -3.2 | 2 | J |
| 5 | 340 | 8.7 | 0 | C | 7.9 | -38 | 153 | -4.6 | 0.6 | -4.6 | 5 | J |
| 6 | 334 | 8.4 | 28 | J | 7.9 | -22 | 110 | -2.4 | 4.7 | -5.5 | 2 | J |
| 7 | 343 | 7.5 | 35 | J | 7.4 | 3 | 114 | -2.4 | 5.0 | -2.3 | 4 | J |
| 8 | 359 | 7.3 | 31 | J | 7.5 | -13 | 90 | 0.0 | 4.9 | -4.7 | 3 | J |
| 9 | 349 | 6.9 | 30 | J | 7.5 | -27 | 98 | -0.9 | 3.5 | -6.1 | 2 | J |
| 10 | 327 | 7.8 | 63 | J | 6.9 | -29 | 123 | -3.0 | 2.1 | -5.0 | 3 | J |
| 11 | 335 | 7.7 | 34 | J | 6.6 | -32 | 122 | -2.9 | 1.9 | -5.4 | 2 | J |
| 12 | 339 | 8.8 | 0 | C | 7.2 | -25 | 102 | -1.3 | 3.3 | -5.6 | 2 | C |
| 13 | 340 | 7.4 | 22 | J | 7.1 | -31 | 119 | -2.9 | 2.4 | -5.9 | 1 | J |
| 14 | 337 | 8.8 | 0 | C | 6.9 | -36 | 104 | -1.3 | 2.5 | -6.0 | 1 | C |
| 15 | 333 | 9.2 | 0 | C | 6.8 | -38 | 119 | -2.5 | 1.9 | -5.7 | 2 | C |
| 16 | 331 | 10.1 | 0 | C | 6.3 | -23 | 119 | -2.7 | 3.3 | -4.3 | 1 | C |
| 17 | 324 | 11.1 | 0 | C | 6.3 | -9 | 158 | -4.3 | 1.3 | -1.4 | 4 | C |
| 18 | 309 | 10.1 | 77 | J | 5.8 | -12 | 204 | -4.5 | -2.2 | -0.3 | 3 | J |
| 19 | 324 | 11.2 | 0 | C | 6.0 | 28 | 223 | -3.6 | -2.4 | 3.5 | 2 | J |
| 20 | 327 | 11.2 | 0 | C | 6.0 | 20 | 208 | -4.8 | -1.9 | 2.6 | 1 | C |
| 21 | 310 | 9.4 | 74 | J | 5.7 | 32 | 172 | -4.4 | 1.2 | 2.5 | 2 | C |
| 22 | 318 | 8.9 | 30 | J | 6.0 | -20 | 123 | -3.0 | 4.1 | -2.9 | 1 | J |
| 23 | 315 | 10.3 | 48 | J | 5.8 | -10 | 137 | -3.7 | 3.2 | -1.6 | 3 | J |
| 24 | 314 | 12.4 | 0 | C | 5.7 | 23 | 185 | -5.1 | 0.0 | 2.2 | 0 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 371 | 14.2 | 0 | C | 7.5 | 41 | 145 | -3.9 | 3.6 | 3.5 | 3 | C |
| 2 | 369 | 14.4 | 0 | C | 7.1 | 25 | 177 | -5.7 | 1.0 | 2.5 | 2 | C |
| 3 | 369 | 11.3 | 50 | J | 7.0 | 43 | 180 | -4.8 | 1.3 | 4.3 | 2 | J |
| 4 | 365 | 12.1 | 60 | J | 7.5 | 25 | 159 | -6.2 | 3.3 | 2.1 | 2 | J |
| 5 | 369 | 14.1 | 0 | C | 7.5 | 24 | 108 | -1.9 | 6.4 | 0.2 | 3 | C |
| 6 | 347 | 10.8 | 71 | J | 7.8 | 17 | 166 | -6.9 | 2.5 | 1.2 | 1 | J |
| 7 | 379 | 10.3 | 35 | J | 7.5 | -31 | 113 | -2.2 | 2.9 | -5.4 | 4 | J |
| 8 | 374 | 7.7 | 61 | L | 7.8 | -29 | 123 | -3.6 | 2.9 | -6.1 | 1 | C |
| 9 | 360 | 12.3 | 0 | C | 7.5 | -1 | 115 | -2.8 | 4.8 | -3.2 | 3 | C |
| 10 | 361 | 11.5 | 0 | C | 7.6 | -28 | 110 | -2.1 | 2.8 | -5.8 | 3 | C |
| 11 | 354 | 11.6 | 0 | C | 7.3 | 10 | 129 | -4.3 | 5.1 | -2.1 | 2 | C |
| 12 | 356 | 12.3 | 0 | C | 6.0 | 54 | 150 | -2.5 | 3.4 | 2.5 | 2 | C |
| 13 | 354 | 12.5 | 0 | C | 6.3 | 75 | 214 | -1.1 | 2.1 | 4.6 | 3 | C |
| 14 | 351 | 13.0 | 0 | C | 5.7 | 43 | 120 | -1.4 | 3.6 | 1.0 | 4 | C |
| 15 | 350 | 12.5 | 0 | C | 6.2 | -15 | 82 | 0.8 | 4.2 | -4.1 | 1 | C |
| 16 | 348 | 11.1 | 0 | C | 6.7 | 2 | 74 | 1.7 | 5.6 | -2.5 | 2 | C |
| 17 | 350 | 10.2 | 0 | C | 7.0 | 0 | 83 | 0.8 | 6.3 | -2.7 | 1 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 324 | 10.7 | 0 | C | | | | | | | | |
| 21 | 324 | 10.7 | 0 | C | 6.4 | -4 | 112 | -2.3 | 5.3 | -1.7 | 2 | C |
| 22 | 332 | 11.3 | 0 | C | 5.9 | 17 | 93 | -0.3 | 5.2 | 0.4 | 2 | C |
| 23 | 332 | 12.2 | 0 | C | 6.1 | 6 | 53 | 3.4 | 4.6 | -0.3 | 2 | C |
| 24 | 323 | 12.5 | 0 | C | 6.1 | 13 | 127 | -3.3 | 4.6 | 0.3 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 395 | 16.3 | 49 | J | 5.9 | -14 | 280 | 0.8 | -4.9 | -0.1 | 3 | J |
| 2 | 397 | 16.0 | 51 | J | 6.8 | 29 | 211 | -4.1 | -1.7 | 3.2 | 4 | J |
| 3 | 386 | 16.7 | 69 | J | 6.7 | 48 | 221 | -2.6 | -1.0 | 4.3 | 4 | J |
| 4 | 391 | 12.6 | 50 | J | 6.8 | 64 | 157 | -2.7 | 3.1 | 5.3 | 2 | J |
| 5 | 392 | 13.0 | 37 | J | 7.1 | 53 | 145 | -3.4 | 4.3 | 4.2 | 2 | J |
| 6 | 394 | 12.9 | 36 | J | 7.3 | 54 | 135 | -3.0 | 5.2 | 4.0 | 1 | J |
| 7 | 392 | 15.6 | 56 | J | 6.0 | 52 | 130 | -2.3 | 4.5 | 2.7 | 2 | J |
| 8 | 383 | 9.1 | 34 | J | 6.7 | 56 | 130 | -2.4 | 5.2 | 3.3 | 1 | J |
| 9 | 396 | 10.1 | 47 | J | 5.3 | 56 | 157 | -2.5 | 3.1 | 2.8 | 2 | J |
| 10 | 391 | 9.1 | 0 | C | 6.8 | 46 | 123 | -2.6 | 5.9 | 1.8 | 1 | C |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 430 | 10.1 | 44 | J | 10.2 | 52 | 138 | -4.4 | 7.5 | 4.2 | 3 | J |
| 14 | 436 | 10.8 | 29 | J | 10.3 | 50 | 162 | -6.1 | 5.7 | 5.5 | 2 | J |
| 15 | 430 | 20.2 | 0 | C | 6.9 | -33 | 254 | -0.5 | -2.1 | -0.2 | 6 | C |
| 16 | 410 | 25.9 | 17 | J | 6.6 | -47 | 325 | 3.6 | -4.4 | -3.1 | 2 | J |
| 17 | 382 | 14.6 | 18 | J | 8.3 | -18 | 249 | -2.7 | -7.7 | 0.6 | 0 | C |
| 18 | 378 | 15.2 | 19 | J | 8.0 | -19 | 263 | -0.9 | -7.4 | 0.1 | 3 | J |
| 19 | 393 | 14.4 | 20 | J | 8.8 | -7 | 242 | -4.0 | -7.4 | 1.2 | 2 | J |
| 20 | 408 | 13.8 | 20 | J | 8.2 | -5 | 232 | -4.8 | -6.2 | 0.9 | 2 | J |
| 21 | 404 | 12.6 | 16 | J | 8.4 | -21 | 243 | -3.5 | -7.3 | -1.3 | 2 | J |
| 22 | 404 | 10.8 | 15 | J | 8.7 | -12 | 234 | -4.9 | -6.9 | -0.3 | 1 | J |
| 23 | 402 | 11.8 | 14 | J | 9.0 | -17 | 232 | -5.2 | -7.1 | -1.2 | 1 | J |
| 24 | 415 | 24.8 | 22 | J | 9.1 | -20 | 234 | -5.0 | -7.4 | -1.6 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 355 | 8.0 | 54 | J | 4.4 | 4 | 138 | -3.1 | 2.8 | -0.3 | 1 | J |
| 2 | 381 | 15.9 | 25 | J | 3.7 | -18 | 18 | 3.3 | 0.7 | -1.3 | 1 | J |
| 3 | 384 | 15.1 | 26 | J | 4.6 | -23 | 29 | 3.6 | 1.4 | -2.3 | 1 | J |
| 4 | 382 | 13.9 | 0 | C | 4.4 | -26 | 48 | 2.6 | 2.1 | -2.7 | 1 | J |
| 5 | 341 | 11.6 | 43 | J | 3.9 | -25 | 109 | -0.7 | 1.6 | -1.8 | 3 | J |
| 6 | 349 | 12.1 | 34 | J | 3.8 | -18 | 148 | -2.7 | 1.1 | -1.6 | 2 | J |
| 7 | 346 | 11.0 | 32 | J | 4.7 | -27 | 134 | -2.8 | 1.6 | -3.2 | 1 | J |
| 8 | 351 | 9.2 | 22 | J | 5.5 | -32 | 118 | -2.1 | 2.0 | -4.5 | 1 | J |
| 9 | 348 | 9.1 | 26 | J | 5.4 | -29 | 119 | -2.2 | 2.0 | -4.4 | 1 | J |
| 10 | 352 | 8.6 | 21 | J | 5.4 | -34 | 108 | -1.4 | 1.8 | -4.8 | 1 | J |
| 11 | 354 | 8.6 | 22 | J | 5.5 | -40 | 111 | -1.5 | 1.2 | -5.1 | 1 | J |
| 12 | 362 | 12.8 | 0 | C | 5.8 | -44 | 82 | 0.5 | 1.0 | -4.8 | 3 | C |
| 13 | 370 | 13.4 | 0 | C | 5.7 | -11 | 37 | 4.2 | 2.1 | -2.5 | 2 | C |
| 14 | 362 | 13.0 | 0 | C | 6.2 | -7 | 58 | 3.0 | 3.7 | -3.1 | 2 | C |
| 15 | 348 | 12.0 | 0 | C | 6.9 | -23 | 82 | 0.8 | 3.9 | -5.1 | 2 | C |
| 16 | 342 | 11.5 | 0 | C | 6.5 | -21 | 85 | 0.5 | 4.2 | -4.7 | 1 | C |
| 17 | 335 | 11.5 | 0 | C | 6.5 | -18 | 105 | -1.6 | 4.5 | -4.0 | 1 | C |
| 18 | 333 | 12.0 | 0 | C | 6.7 | -23 | 106 | -1.6 | 4.4 | -4.2 | 2 | J |
| 19 | 330 | 12.4 | 15 | J | | | | | | | | |
| 20 | 339 | 13.7 | 17 | J | 7.3 | -15 | 117 | -2.9 | 5.1 | -3.2 | 3 | J |
| 21 | 343 | 10.4 | 29 | J | 6.6 | 12 | 120 | -2.3 | 4.2 | 0.0 | 5 | J |
| 22 | 346 | 9.0 | 51 | J | 5.8 | 5 | 145 | -4.2 | 2.9 | -0.2 | 3 | J |
| 23 | 335 | 8.0 | 30 | J | 5.7 | 1 | 187 | -5.4 | -0.6 | 0.2 | 2 | J |
| 24 | 339 | 8.7 | 41 | J | 6.0 | 26 | 193 | -4.7 | -0.6 | 2.5 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 307 | 12.5 | 0 | C | 6.0 | 20 | 198 | -5.4 | -1.2 | 2.4 | 0 | J |
| 2 | 301 | 9.8 | 18 | J | 6.0 | 23 | 200 | -5.1 | -1.2 | 2.7 | 1 | J |
| 3 | 300 | 12.4 | 18 | J | 6.0 | 19 | 231 | -2.9 | -3.0 | 2.6 | 3 | J |
| 4 | 304 | 18.3 | 0 | C | 5.9 | -12 | 212 | -4.9 | -3.3 | -0.1 | 1 | J |
| 5 | 301 | 20.3 | 0 | C | 4.5 | 22 | 222 | -1.6 | -1.0 | 1.3 | 4 | J |
| 6 | 335 | 13.9 | 29 | J | 4.8 | -20 | 315 | 2.4 | -2.7 | -0.1 | 4 | J |
| 7 | 329 | 11.9 | 22 | J | 6.2 | 8 | 139 | -4.0 | 3.4 | -1.0 | 3 | J |
| 8 | 332 | 12.1 | 23 | J | 5.4 | -8 | 127 | -2.7 | 2.8 | -2.4 | 3 | J |
| 9 | 328 | 11.5 | 23 | J | 6.7 | 16 | 128 | -3.7 | 4.9 | -1.1 | 2 | J |
| 10 | 333 | 11.5 | 19 | J | 8.5 | 12 | 120 | -4.1 | 6.8 | -2.5 | 2 | J |
| 11 | 330 | 14.2 | 0 | C | 9.0 | 11 | 123 | -4.8 | 7.0 | -2.7 | 1 | C |
| 12 | 344 | 15.7 | 0 | C | | | | | | | | |
| 13 | 344 | 15.7 | 0 | C | 10.0 | -16 | 89 | 0.1 | 5.6 | -6.6 | 5 | C |
| 14 | 353 | 11.8 | 39 | J | 9.6 | -9 | 113 | -2.7 | 4.9 | -4.3 | 6 | J |
| 15 | 347 | 10.4 | 48 | J | 9.7 | 20 | 123 | -4.5 | 7.5 | -0.8 | 4 | J |
| 16 | 304 | 16.8 | 0 | C | 9.5 | 25 | 107 | -2.4 | 8.9 | -0.1 | 2 | J |
| 17 | 341 | 7.8 | 91 | L | 10.0 | 49 | 132 | -4.3 | 7.4 | 4.9 | 2 | J |
| 18 | 341 | 14.3 | 0 | C | 8.4 | 43 | 169 | -3.4 | 1.7 | 2.8 | 7 | C |
| 19 | 357 | 14.3 | 0 | C | 8.1 | 42 | 257 | -1.3 | -4.0 | 6.8 | 0 | C |
| 20 | 379 | 10.5 | 57 | J | 8.2 | 16 | 132 | -4.9 | 5.8 | 0.6 | 3 | J |
| 21 | 367 | 15.1 | 0 | C | | | | | | | | |
| 22 | 367 | 15.1 | 0 | C | 8.3 | 34 | 146 | -5.0 | 4.2 | 3.3 | 3 | C |
| 23 | 373 | 14.3 | 0 | C | 8.1 | 33 | 143 | -4.6 | 4.2 | 2.9 | 3 | C |
| 24 | 374 | 11.6 | 71 | J | 6.6 | -5 | 151 | -5.1 | 2.6 | -1.1 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 320 | 12.2 | 0 | C | 5.7 | 24 | 143 | -3.9 | 3.3 | 1.5 | 1 | C |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 312 | 11.1 | 0 | C | | | | | | | | |
| 7 | 312 | 11.1 | 0 | C | 4.1 | -38 | 160 | -2.8 | -0.2 | -2.5 | 1 | C |
| 8 | 310 | 10.7 | 0 | C | 4.4 | -28 | 179 | -3.8 | -1.0 | -1.8 | 1 | C |
| 9 | 301 | 10.6 | 0 | C | 4.5 | -36 | 149 | -2.8 | 0.1 | -2.9 | 1 | C |
| 10 | 301 | 10.6 | 0 | C | 4.5 | -19 | 201 | -3.9 | -2.0 | -0.3 | 1 | C |
| 11 | 306 | 10.9 | 0 | C | 3.5 | -26 | 162 | -2.8 | -0.1 | -1.7 | 1 | C |
| 12 | 310 | 10.6 | 0 | C | 3.7 | -7 | 198 | -3.5 | -1.2 | 0.3 | 0 | C |
| 13 | 310 | 10.6 | 0 | C | 3.5 | -32 | 179 | -2.8 | -0.9 | -1.5 | 1 | C |
| 14 | 316 | 10.9 | 0 | C | 3.1 | -31 | 156 | -2.3 | 0.1 | -1.8 | 1 | C |
| 15 | 310 | 10.5 | 0 | C | 3.9 | -23 | 111 | -1.2 | 2.0 | -2.8 | 1 | C |
| 16 | 309 | 10.3 | 0 | C | 3.9 | -17 | 115 | -1.4 | 2.2 | -2.2 | 2 | C |
| 17 | 306 | 10.6 | 0 | C | 4.0 | 22 | 128 | -2.1 | 3.0 | 0.2 | 1 | C |
| 18 | 305 | 11.0 | 0 | C | 4.6 | -23 | 139 | -3.1 | 2.0 | -2.6 | 1 | C |
| 19 | | | | | | | | | | | | |
| 20 | 296 | 10.5 | 0 | C | | | | | | | | |
| 21 | 296 | 10.5 | 0 | C | 2.3 | -11 | 85 | 0.2 | 1.9 | -0.9 | 1 | C |
| 22 | 307 | 9.6 | 0 | C | 3.7 | -24 | 135 | -2.1 | 1.8 | -1.8 | 1 | C |
| 23 | 312 | 9.1 | 0 | C | 4.0 | -27 | 141 | -2.6 | 1.7 | -2.1 | 1 | C |
| 24 | 308 | 9.1 | 0 | C | 4.3 | -20 | 133 | -2.7 | 2.5 | -2.0 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 309 | 9.4 | 0 | C | 4.3 | -33 | 118 | -1.7 | 2.5 | -3.0 | 1 | C |
| 2 | 307 | 9.7 | 0 | C | 4.3 | -18 | 142 | -2.8 | 1.8 | -1.7 | 2 | C |
| 3 | 303 | 9.9 | 0 | C | 4.0 | -12 | 142 | -2.9 | 1.9 | -1.5 | 1 | C |
| 4 | 305 | 10.2 | 0 | C | 4.2 | -11 | 143 | -3.2 | 2.0 | -1.5 | 1 | C |
| 5 | 295 | 11.0 | 0 | C | 3.2 | -65 | 111 | -0.3 | 0.0 | -1.9 | 3 | C |
| 6 | 295 | 11.6 | 0 | C | 3.7 | -30 | 331 | 2.5 | -1.9 | -0.8 | 2 | C |
| 7 | | | | | | | | | | | | |
| 8 | 281 | 12.9 | 0 | C | 2.7 | -66 | 28 | 1.0 | -0.8 | -2.4 | 0 | C |
| 9 | 281 | 12.7 | 0 | C | 3.2 | -20 | 135 | -1.8 | 1.0 | -1.8 | 2 | C |
| 10 | 288 | 12.3 | 0 | C | 3.4 | -32 | 117 | -1.2 | 1.0 | -2.8 | 1 | C |
| 11 | 286 | 13.4 | 0 | C | 2.9 | -31 | 117 | -1.0 | 0.9 | -2.3 | 1 | C |
| 12 | 297 | 13.3 | 0 | C | 3.9 | 12 | 109 | -1.2 | 3.4 | -1.4 | 0 | C |
| 13 | 299 | 12.8 | 0 | C | 4.1 | 0 | 112 | -1.5 | 3.1 | -2.0 | 1 | C |
| 14 | 302 | 12.2 | 0 | C | 4.4 | -4 | 123 | -2.3 | 2.9 | -2.1 | 1 | C |
| 15 | 304 | 11.1 | 0 | C | 5.0 | 3 | 144 | -3.7 | 2.5 | -1.1 | 2 | C |
| 16 | 306 | 10.7 | 0 | C | 5.3 | 37 | 186 | -3.8 | 0.9 | 2.8 | 2 | C |
| 17 | 301 | 11.3 | 0 | C | 5.4 | 32 | 122 | -2.0 | 4.0 | 0.9 | 3 | C |
| 18 | 298 | 12.8 | 0 | C | 5.3 | 26 | 127 | -2.8 | 4.2 | 0.8 | 1 | C |
| 19 | 301 | 13.6 | 0 | C | 5.2 | -5 | 121 | -2.3 | 3.6 | -1.6 | 2 | C |
| 20 | 298 | 13.7 | 0 | C | 5.5 | -3 | 104 | -1.3 | 5.0 | -1.7 | 1 | C |
| 21 | 297 | 18.6 | 0 | C | 2.8 | 57 | 157 | -1.4 | 1.1 | 2.1 | 1 | C |
| 22 | 295 | 19.4 | 0 | C | 2.4 | 66 | 278 | 0.1 | -0.5 | 2.2 | 1 | C |
| 23 | 299 | 17.6 | 0 | C | 3.8 | 79 | 310 | 0.4 | 0.2 | 3.6 | 1 | C |
| 24 | 298 | 14.5 | 0 | C | 4.8 | 80 | 130 | -0.5 | 1.5 | 4.2 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 295 | 16.5 | 0 | C | 3.4 | 38 | 79 | 0.4 | 2.6 | 1.2 | 1 | C |
| 2 | 292 | 14.0 | 0 | C | 4.3 | 54 | 137 | -1.7 | 2.3 | 2.7 | 1 | C |
| 3 | 301 | 13.3 | 0 | C | 4.6 | 49 | 190 | -2.9 | 0.6 | 3.4 | 1 | C |
| 4 | 295 | 13.8 | 0 | C | 5.3 | 36 | 106 | -1.2 | 4.9 | 1.5 | 1 | C |
| 5 | 292 | 13.6 | 0 | C | 5.7 | 32 | 100 | -0.8 | 5.4 | 0.9 | 1 | C |
| 6 | 296 | 14.6 | 0 | C | 5.0 | 30 | 103 | -0.9 | 4.5 | 0.3 | 2 | C |
| 7 | 287 | 14.3 | 0 | C | 4.4 | 25 | 153 | -3.2 | 2.3 | 0.7 | 2 | C |
| 8 | 286 | 13.2 | 0 | C | 5.4 | 13 | 148 | -4.4 | 3.0 | -0.4 | 1 | C |
| 9 | 284 | 14.4 | 0 | C | 4.9 | 7 | 132 | -3.0 | 3.1 | -1.4 | 2 | C |
| 10 | | | | | | | | | | | | |
| 11 | 282 | 15.7 | 0 | C | 4.3 | 19 | 139 | -2.8 | 2.8 | -0.3 | 2 | C |
| 12 | 279 | 16.1 | 0 | C | 4.2 | 18 | 135 | -2.7 | 3.0 | -0.5 | 1 | C |
| 13 | 273 | 15.8 | 0 | C | 4.8 | 5 | 142 | -3.7 | 2.6 | -1.3 | 1 | C |
| 14 | 274 | 16.9 | 0 | C | 4.1 | -18 | 127 | -2.2 | 1.9 | -2.6 | 1 | C |
| 15 | 269 | 16.8 | 0 | C | 4.5 | -15 | 121 | -2.2 | 2.7 | -2.9 | 1 | C |
| 16 | 268 | 18.0 | 0 | C | 4.1 | 10 | 134 | -2.6 | 2.7 | -0.6 | 1 | C |
| 17 | 269 | 17.8 | 0 | C | 5.2 | 36 | 135 | -2.9 | 4.0 | 1.7 | 1 | C |
| 18 | 266 | 17.3 | 0 | C | 5.5 | 23 | 124 | -2.8 | 4.6 | 0.5 | 1 | C |
| 19 | 279 | 12.7 | 0 | C | 7.7 | -7 | 109 | -2.5 | 6.5 | -3.0 | 1 | C |
| 20 | 372 | 37.8 | 0 | C | 20.6 | -29 | 97 | -2.2 | 14.4 | -14.2 | 3 | C |
| 21 | 377 | 48.8 | 0 | C | 20.0 | -23 | 97 | -2.2 | 15.3 | -11.6 | 5 | C |
| 22 | 371 | 62.6 | 0 | C | 18.4 | -8 | 83 | 2.0 | 15.7 | -5.9 | 9 | C |
| 23 | 378 | 57.8 | 0 | C | 21.2 | 13 | 273 | 0.9 | -17.2 | 8.1 | 10 | C |
| 24 | 405 | 39.1 | 0 | C | 28.3 | 28 | 276 | 2.5 | -21.3 | 18.2 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 35.5 | 0 | C | 30.8 | 34 | 286 | 7.0 | -19.8 | 22.3 | 3 | C |
| 2 | 387 | 57.0 | 0 | C | 29.3 | 39 | 289 | 6.5 | -13.6 | 19.8 | 16 | C |
| 3 | 351 | 97.7 | 0 | C | 25.1 | -18 | 289 | 7.7 | -23.3 | -0.5 | 4 | C |
| 4 | 368 | 88.9 | 0 | C | 22.9 | -5 | 282 | 4.7 | -21.3 | 5.6 | 3 | C |
| 5 | 368 | 91.9 | 0 | C | 18.2 | 21 | 323 | 12.1 | -6.2 | 8.8 | 9 | C |
| 6 | 373 | 82.3 | 0 | C | 17.2 | 13 | 304 | 7.5 | -8.5 | 7.6 | 10 | C |
| 7 | 391 | 63.7 | 0 | C | 21.9 | -69 | 178 | -7.5 | -9.3 | -17.3 | 5 | C |
| 8 | 391 | 64.6 | 0 | C | 22.4 | -61 | 185 | -10.5 | -10.7 | -15.9 | 4 | C |
| 9 | 394 | 62.4 | 0 | C | 16.3 | -5 | 306 | 8.8 | -10.9 | 5.6 | 6 | C |
| 10 | 403 | 44.0 | 0 | C | 23.2 | -43 | 299 | 8.0 | -20.7 | -4.6 | 5 | C |
| 11 | 396 | 32.1 | 0 | C | 23.3 | -24 | 306 | 12.5 | -19.5 | 2.2 | 1 | C |
| 12 | 397 | 22.5 | 0 | C | 24.0 | -20 | 304 | 12.4 | -20.1 | 3.7 | 1 | C |
| 13 | 406 | 29.1 | 0 | C | 21.8 | -10 | 302 | 11.4 | -17.1 | 6.7 | 2 | C |
| 14 | 403 | 29.3 | 0 | C | 18.4 | 7 | 297 | 8.1 | -12.4 | 10.3 | 3 | C |
| 15 | 388 | 20.7 | 0 | C | 16.1 | 7 | 298 | 7.5 | -11.2 | 8.4 | 3 | C |
| 16 | 379 | 14.6 | 0 | C | 14.4 | 17 | 295 | 5.7 | -9.2 | 9.3 | 1 | C |
| 17 | 387 | 12.8 | 0 | C | 13.6 | 14 | 289 | 4.2 | -10.0 | 7.8 | 2 | C |
| 18 | 385 | 12.1 | 0 | C | 13.1 | 23 | 280 | 2.1 | -9.0 | 8.7 | 3 | C |
| 19 | 396 | 11.6 | 0 | C | 13.2 | 41 | 290 | 3.3 | -6.2 | 10.9 | 2 | C |
| 20 | 434 | 17.5 | 0 | C | 10.3 | 57 | 292 | 1.9 | -2.5 | 8.7 | 4 | C |
| 21 | 432 | 18.0 | 0 | C | 9.5 | 37 | 296 | 3.3 | -5.2 | 7.0 | 1 | C |
| 22 | 424 | 13.1 | 0 | C | 9.5 | 47 | 294 | 2.6 | -4.2 | 8.0 | 1 | C |
| 23 | 434 | 12.4 | 0 | C | 8.5 | 57 | 265 | -0.4 | -3.0 | 7.7 | 1 | C |
| 24 | 427 | 12.7 | 0 | C | 7.2 | 34 | 308 | 3.3 | -3.4 | 4.5 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 401 | 10.7 | 0 | C | 7.0 | -11 | 340 | 5.8 | -2.4 | -0.7 | 3 | C |
| 2 | 382 | 8.5 | 0 | C | 7.4 | -39 | 8 | 5.7 | -0.5 | -4.6 | 1 | C |
| 3 | 383 | 9.0 | 0 | C | 7.4 | -38 | 11 | 5.6 | -0.3 | -4.5 | 2 | C |
| 4 | 388 | 8.7 | 0 | C | 7.8 | -4 | 340 | 7.2 | -2.7 | 0.4 | 1 | C |
| 5 | 390 | 9.9 | 0 | C | 7.9 | 14 | 338 | 6.7 | -1.8 | 2.7 | 2 | J |
| 6 | 384 | 10.8 | 0 | C | 7.9 | -2 | 335 | 6.5 | -2.8 | 1.1 | 2 | J |
| 7 | 418 | 11.2 | 48 | J | 7.7 | 15 | 331 | 5.7 | -1.9 | 3.1 | 3 | J |
| 8 | 439 | 11.6 | 43 | J | 7.1 | 24 | 336 | 5.5 | -0.7 | 3.6 | 2 | J |
| 9 | 436 | 13.2 | 35 | J | 7.6 | 30 | 328 | 5.2 | -0.8 | 4.8 | 2 | J |
| 10 | 437 | 13.3 | 46 | J | 7.9 | 33 | 331 | 5.5 | -0.2 | 5.1 | 2 | J |
| 11 | 416 | 5.2 | 44 | J | 8.6 | 6 | 322 | 6.2 | -3.5 | 3.4 | 3 | J |
| 12 | 414 | 7.4 | 0 | C | 8.0 | 18 | 308 | 4.4 | -3.3 | 5.0 | 2 | C |
| 13 | 418 | 5.1 | 60 | J | 7.8 | 6 | 317 | 5.2 | -3.6 | 3.3 | 3 | J |
| 14 | 441 | 5.5 | 61 | J | 7.5 | 43 | 299 | 2.4 | -1.3 | 6.3 | 3 | J |
| 15 | 410 | 7.4 | 0 | C | 7.3 | -3 | 301 | 3.4 | -5.1 | 2.5 | 3 | J |
| 16 | 415 | 8.1 | 0 | C | 7.5 | 9 | 312 | 3.2 | -2.8 | 2.2 | 6 | J |
| 17 | 432 | 8.4 | 97 | J | 6.9 | 53 | 311 | 2.6 | -0.6 | 6.0 | 2 | J |
| 18 | 419 | 8.8 | 0 | C | 6.4 | 4 | 336 | 5.2 | -2.0 | 1.2 | 3 | J |
| 19 | 410 | 6.7 | 80 | J | 6.0 | -2 | 342 | 5.3 | -1.7 | 0.3 | 2 | J |
| 20 | 407 | 7.3 | 64 | J | 6.2 | -27 | 318 | 3.6 | -3.8 | -1.5 | 3 | J |
| 21 | 402 | 7.4 | 69 | J | 5.6 | 12 | 320 | 3.4 | -2.5 | 1.6 | 3 | J |
| 22 | 385 | 7.2 | 115 | J | 5.3 | -2 | 345 | 4.6 | -1.3 | 0.1 | 2 | J |
| 23 | 373 | 6.8 | 46 | J | 5.8 | -12 | 346 | 5.2 | -1.5 | -0.8 | 2 | J |
| 24 | 397 | 7.5 | 86 | J | 5.4 | -19 | 312 | 1.9 | -2.3 | -0.5 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 424 | 7.9 | 34 | J | 6.6 | 34 | 309 | 3.1 | -2.9 | 4.0 | 2 | C |
| 2 | 396 | 8.5 | 0 | C | 6.8 | 22 | 315 | 3.5 | -2.8 | 2.8 | 4 | C |
| 3 | 385 | 8.1 | 0 | C | 7.2 | 30 | 349 | 5.4 | -0.1 | 3.3 | 3 | C |
| 4 | 368 | 6.3 | 24 | J | 6.8 | 18 | 5 | 6.2 | 1.2 | 1.7 | 2 | J |
| 5 | 375 | 6.4 | 25 | J | 6.5 | 12 | 335 | 5.5 | -1.8 | 2.2 | 2 | J |
| 6 | 385 | 6.9 | 49 | J | 6.7 | -3 | 310 | 3.9 | -4.3 | 1.8 | 3 | J |
| 7 | 388 | 6.5 | 41 | J | 7.0 | -4 | 302 | 3.3 | -4.8 | 2.2 | 3 | J |
| 8 | 366 | 5.5 | 29 | J | 7.3 | 4 | 323 | 5.7 | -3.4 | 2.7 | 1 | J |
| 9 | 369 | 7.9 | 0 | C | 7.0 | 8 | 331 | 5.8 | -2.1 | 2.6 | 1 | C |
| 10 | 407 | 6.8 | 41 | J | 6.3 | 5 | 262 | -0.5 | -3.0 | 2.5 | 5 | J |
| 11 | 393 | 7.3 | 40 | J | 6.4 | 30 | 269 | -0.1 | -2.5 | 5.3 | 3 | J |
| 12 | 369 | 8.7 | 0 | C | 6.7 | 33 | 316 | 3.7 | -1.1 | 4.8 | 2 | C |
| 13 | 366 | 7.3 | 40 | J | 7.1 | 40 | 327 | 4.4 | 0.0 | 5.2 | 2 | J |
| 14 | 359 | 7.3 | 68 | J | 6.8 | 37 | 325 | 4.2 | -0.5 | 4.9 | 2 | J |
| 15 | 351 | 8.3 | 0 | C | 7.6 | 31 | 317 | 4.8 | -1.9 | 5.5 | 1 | C |
| 16 | 350 | 8.4 | 0 | C | 8.0 | 26 | 320 | 5.4 | -2.5 | 5.1 | 1 | C |
| 17 | 354 | 8.3 | 44 | J | 7.9 | -14 | 315 | 5.2 | -5.5 | 0.4 | 2 | J |
| 18 | 357 | 9.4 | 39 | J | 7.7 | -10 | 306 | 4.5 | -6.2 | 0.9 | 1 | J |
| 19 | 338 | 9.9 | 0 | C | 7.7 | -28 | 320 | 5.1 | -5.1 | -2.0 | 1 | C |
| 20 | 353 | 8.6 | 38 | J | 7.2 | -41 | 352 | 5.0 | -1.8 | -4.1 | 3 | J |
| 21 | 365 | 10.1 | 27 | J | 7.0 | -65 | 357 | 2.8 | -1.6 | -5.9 | 2 | J |
| 22 | 369 | 12.1 | 18 | J | 7.0 | -84 | 28 | 0.6 | -1.2 | -6.9 | 1 | J |
| 23 | 341 | 11.0 | 22 | J | 6.7 | -48 | 340 | 4.0 | -2.4 | -4.3 | 2 | J |
| 24 | 337 | 11.3 | 36 | J | 6.9 | -21 | 333 | 5.6 | -3.3 | -1.7 | 2 | J |

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265

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 333 | 10.1 | 26 | J | 7.0 | -16 | 346 | 6.5 | -2.0 | -1.5 | 1 | J |
| 2 | 331 | 10.1 | 29 | J | 7.3 | -29 | 345 | 6.1 | -2.5 | -2.9 | 2 | J |
| 3 | 333 | 12.1 | 20 | J | 7.7 | -21 | 18 | 6.7 | 1.3 | -3.3 | 1 | J |
| 4 | 338 | 12.6 | 21 | J | 8.4 | -40 | 6 | 6.3 | -1.2 | -5.2 | 1 | J |
| 5 | 329 | 14.9 | 0 | C | 7.7 | -30 | 12 | 6.1 | -0.3 | -3.9 | 2 | C |
| 6 | 341 | 13.7 | 0 | C | 8.0 | -48 | 29 | 4.5 | -0.3 | -6.2 | 2 | C |
| 7 | 356 | 13.1 | 71 | J | 4.8 | 23 | 34 | 3.5 | 2.9 | 0.4 | 1 | J |
| 8 | 348 | 13.2 | 64 | J | 7.4 | 4 | 13 | 6.1 | 1.4 | -0.4 | 4 | J |
| 9 | 331 | 13.6 | 0 | C | 7.4 | -37 | 5 | 4.7 | -1.6 | -3.3 | 4 | C |
| 10 | 325 | 12.2 | 0 | C | 7.0 | -15 | 329 | 5.1 | -3.5 | 0.5 | 3 | C |
| 11 | 326 | 11.7 | 0 | C | 7.1 | -27 | 334 | 5.1 | -3.7 | -1.0 | 3 | C |
| 12 | 332 | 12.5 | 0 | C | 6.8 | 42 | 312 | 3.2 | -0.5 | 5.6 | 2 | C |
| 13 | 332 | 12.5 | 0 | C | 7.2 | 73 | 338 | 1.8 | 3.0 | 5.9 | 2 | C |
| 14 | 325 | 11.5 | 0 | C | 7.3 | 17 | 301 | 3.3 | -3.7 | 4.6 | 2 | C |
| 15 | 342 | 10.6 | 37 | J | 6.6 | 44 | 287 | 1.3 | -1.6 | 5.7 | 2 | C |
| 16 | 342 | 10.7 | 47 | J | 6.2 | 56 | 358 | 3.2 | 2.0 | 4.4 | 2 | J |
| 17 | 338 | 11.7 | 49 | J | 5.7 | 30 | 40 | 3.7 | 4.0 | 1.3 | 1 | J |
| 18 | 328 | 15.0 | 0 | C | 6.1 | 37 | 32 | 4.1 | 3.7 | 2.6 | 0 | C |
| 19 | 325 | 16.1 | 0 | C | 6.5 | 36 | 6 | 2.0 | 0.7 | 1.3 | 6 | C |
| 20 | 322 | 15.7 | 0 | C | 8.0 | -29 | 243 | -2.9 | -6.5 | -1.9 | 3 | C |
| 21 | 335 | 11.3 | 13 | J | 9.2 | -35 | 234 | -4.4 | -7.1 | -3.7 | 1 | J |
| 22 | 334 | 11.0 | 13 | J | 9.3 | -45 | 224 | -4.6 | -5.7 | -5.3 | 2 | J |
| 23 | 327 | 11.5 | 0 | C | 9.4 | -36 | 230 | -4.6 | -6.6 | -4.0 | 3 | C |
| 24 | 334 | 9.9 | 0 | C | 9.9 | -46 | 216 | -5.5 | -5.4 | -6.0 | 1 | C |

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266

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 333 | 11.8 | 15 | J | 9.7 | -33 | 223 | -6.0 | -6.6 | -3.8 | 1 | J |
| 2 | 339 | 15.0 | 20 | J | 9.6 | -26 | 226 | -5.9 | -6.9 | -2.4 | 2 | J |
| 3 | 342 | 17.3 | 29 | J | 9.7 | 5 | 256 | -2.2 | -8.1 | 3.4 | 4 | J |
| 4 | 335 | 13.5 | 27 | J | 11.2 | 19 | 270 | -0.0 | -8.7 | 7.1 | 1 | J |
| 5 | 335 | 13.1 | 23 | J | 11.4 | 20 | 268 | -0.4 | -8.2 | 7.8 | 1 | J |
| 6 | 331 | 13.5 | 16 | J | 11.1 | 17 | 271 | 0.2 | -8.1 | 7.6 | 1 | J |
| 7 | 318 | 14.6 | 17 | J | 10.7 | 13 | 280 | 1.8 | -7.7 | 7.0 | 1 | J |
| 8 | 321 | 14.4 | 17 | J | 10.8 | 17 | 277 | 1.2 | -7.0 | 8.0 | 1 | J |
| 9 | 316 | 14.4 | 14 | J | 10.4 | 19 | 274 | 0.7 | -6.3 | 8.2 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 321 | 17.5 | 16 | J | 9.6 | 13 | 250 | -3.2 | -6.1 | 6.6 | 1 | J |
| 14 | 323 | 16.3 | 17 | J | 9.8 | 21 | 249 | -3.2 | -5.3 | 7.2 | 2 | J |
| 15 | 330 | 15.3 | 0 | C | 10.7 | -1 | 252 | -3.3 | -8.8 | 4.6 | 2 | C |
| 16 | 331 | 17.6 | 0 | C | 10.5 | 2 | 254 | -2.8 | -8.6 | 4.6 | 2 | C |
| 17 | 302 | 17.0 | 0 | C | 10.7 | 25 | 218 | -7.6 | -3.7 | 6.5 | 1 | C |
| 18 | 310 | 16.0 | 23 | J | 11.1 | 14 | 223 | -7.9 | -5.9 | 5.1 | 1 | J |
| 19 | 305 | 15.0 | 17 | J | 11.4 | 23 | 212 | -8.7 | -3.8 | 5.8 | 2 | J |
| 20 | 300 | 11.6 | 13 | J | 11.7 | 21 | 202 | -10.0 | -2.8 | 5.1 | 1 | J |
| 21 | 298 | 10.6 | 14 | J | 12.1 | 23 | 208 | -9.7 | -3.9 | 5.7 | 2 | J |
| 22 | 301 | 13.3 | 14 | J | 11.8 | 21 | 208 | -9.6 | -4.1 | 5.1 | 2 | J |
| 23 | 301 | 16.2 | 17 | J | 11.6 | 45 | 198 | -7.5 | -0.8 | 8.3 | 3 | C |
| 24 | 311 | 24.8 | 21 | J | 10.7 | 49 | 197 | -6.4 | -0.3 | 7.9 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 313 | 27.9 | 22 | J | 11.2 | 69 | 175 | -4.0 | 2.8 | 10.1 | 1 | J |
| 2 | 310 | 24.2 | 14 | J | 12.0 | 67 | 131 | -3.1 | 6.3 | 9.6 | 1 | J |
| 3 | 311 | 20.9 | 16 | J | 11.4 | 59 | 108 | -1.8 | 8.2 | 7.6 | 2 | J |
| 4 | 316 | 41.1 | 19 | J | 10.6 | 47 | 87 | 0.4 | 9.4 | 4.7 | 1 | J |
| 5 | 317 | 37.0 | 21 | J | 10.4 | 41 | 86 | 0.5 | 9.9 | 3.2 | 1 | J |
| 6 | 314 | 24.3 | 43 | J | 9.9 | 67 | 166 | -3.8 | 4.9 | 7.7 | 1 | J |
| 7 | 321 | 25.4 | 44 | J | 9.2 | 56 | 86 | 0.4 | 8.0 | 4.1 | 2 | J |
| 8 | 326 | 22.2 | 47 | J | 9.8 | 54 | 88 | 0.2 | 8.6 | 3.6 | 3 | J |
| 9 | 325 | 12.1 | 42 | J | 12.7 | 53 | 93 | -0.4 | 11.8 | 4.2 | 2 | J |
| 10 | 322 | 6.6 | 37 | J | 13.5 | 37 | 92 | -0.4 | 12.7 | 0.6 | 4 | J |
| 11 | 319 | 7.8 | 0 | C | 13.3 | 4 | 82 | 1.9 | 10.9 | -6.5 | 3 | C |
| 12 | 325 | 8.2 | 0 | C | 13.1 | 3 | 82 | 1.7 | 10.7 | -6.6 | 3 | C |
| 13 | 314 | 8.6 | 0 | C | 12.9 | 8 | 90 | -0.0 | 11.5 | -5.4 | 1 | C |
| 14 | 308 | 10.0 | 0 | C | 12.3 | 3 | 111 | -4.2 | 9.4 | -5.2 | 3 | C |
| 15 | 325 | 9.8 | 0 | C | 13.3 | 6 | 89 | 0.2 | 11.8 | -5.1 | 3 | C |
| 16 | 335 | 9.6 | 0 | C | 13.3 | 6 | 89 | 0.1 | 12.4 | -4.7 | 1 | C |
| 17 | 334 | 11.1 | 0 | C | 13.4 | 2 | 92 | -0.4 | 12.1 | -4.8 | 3 | C |
| 18 | 333 | 13.9 | 0 | C | 13.1 | 13 | 86 | 0.9 | 12.8 | -1.7 | 1 | C |
| 19 | 318 | 15.8 | 0 | C | 12.3 | 39 | 111 | -2.9 | 9.2 | 3.9 | 7 | J |
| 20 | 332 | 13.3 | 0 | C | 12.1 | 18 | 104 | -2.7 | 11.5 | 0.6 | 2 | J |
| 21 | 332 | 13.3 | 0 | C | 11.4 | 47 | 122 | -3.3 | 6.6 | 5.3 | 7 | C |
| 22 | 331 | 10.1 | 0 | C | 13.2 | 16 | 92 | -0.4 | 13.0 | 0.8 | 1 | C |
| 23 | 349 | 9.8 | 71 | J | 12.2 | -12 | 79 | 2.2 | 10.7 | -4.8 | 3 | J |
| 24 | 345 | 9.0 | 71 | J | 12.2 | 1 | 97 | -1.3 | 10.0 | -2.0 | 7 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 337 | 7.9 | 43 | J | 12.7 | 13 | 113 | -4.8 | 11.7 | 0.1 | 2 | J |
| 2 | 335 | 8.6 | 47 | J | 11.2 | 8 | 119 | -5.3 | 9.6 | -1.0 | 2 | J |
| 3 | 352 | 8.6 | 48 | J | 12.0 | 13 | 105 | -3.0 | 11.4 | -0.8 | 2 | J |
| 4 | 343 | 8.6 | 37 | J | 11.9 | 11 | 106 | -3.2 | 11.1 | -1.8 | 2 | J |
| 5 | 342 | 12.8 | 0 | C | 10.9 | 1 | 100 | -1.8 | 9.6 | -3.9 | 3 | J |
| 6 | 338 | 13.4 | 0 | C | 8.1 | 25 | 126 | -4.0 | 6.3 | 0.4 | 4 | J |
| 7 | 337 | 8.3 | 68 | J | 8.8 | 25 | 176 | -7.2 | 2.1 | 2.7 | 4 | J |
| 8 | 356 | 9.1 | 128 | J | 8.5 | 16 | 144 | -5.3 | 4.3 | -0.4 | 5 | J |
| 9 | 357 | 7.9 | 83 | J | 7.5 | -27 | 196 | -5.5 | -2.9 | -1.6 | 4 | J |
| 10 | 362 | 9.1 | 73 | J | 8.6 | -4 | 184 | -8.0 | -0.8 | -0.1 | 3 | J |
| 11 | 362 | 8.0 | 83 | J | 8.2 | 11 | 161 | -7.4 | 3.0 | -0.2 | 1 | J |
| 12 | 364 | 10.3 | 0 | C | 9.2 | -8 | 100 | -1.5 | 6.5 | -6.0 | 2 | C |
| 13 | 376 | 8.7 | 22 | J | 9.2 | -7 | 106 | -2.5 | 6.6 | -5.7 | 1 | J |
| 14 | 355 | 12.2 | 0 | C | 7.7 | 22 | 155 | -5.7 | 3.6 | 0.8 | 3 | C |
| 15 | 351 | 12.4 | 0 | C | 8.3 | -6 | 123 | -3.8 | 4.9 | -3.6 | 4 | C |
| 16 | 360 | 12.3 | 0 | C | 8.4 | -29 | 109 | -2.2 | 4.2 | -6.4 | 2 | C |
| 17 | 366 | 13.0 | 0 | C | 8.5 | 23 | 118 | -3.1 | 6.6 | 0.3 | 4 | C |
| 18 | 356 | 10.8 | 43 | J | 8.3 | 46 | 221 | -4.1 | -1.4 | 6.5 | 3 | J |
| 19 | 371 | 11.0 | 46 | J | 8.2 | 45 | 180 | -4.9 | 1.5 | 4.6 | 4 | J |
| 20 | 364 | 11.2 | 44 | J | 8.2 | 30 | 171 | -6.5 | 2.0 | 3.4 | 3 | J |
| 21 | 364 | 10.9 | 51 | J | 7.5 | 25 | 210 | -5.2 | -2.3 | 3.4 | 3 | J |
| 22 | 376 | 10.1 | 66 | J | 6.4 | 29 | 180 | -5.1 | 0.6 | 2.7 | 3 | J |
| 23 | 398 | 10.8 | 51 | J | 6.7 | 52 | 238 | -1.8 | -1.9 | 4.7 | 4 | J |
| 24 | 371 | 10.3 | 48 | J | 7.1 | 21 | 230 | -3.5 | -3.6 | 2.9 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 368 | 13.1 | 0 | C | 4.6 | 39 | 259 | -0.4 | -1.7 | 2.3 | 4 | J |
| 2 | 378 | 10.6 | 66 | J | 5.3 | 41 | 206 | -2.6 | -0.6 | 2.8 | 4 | J |
| 3 | 399 | 8.4 | 41 | J | 7.5 | 0 | 89 | 0.1 | 6.9 | -2.2 | 2 | J |
| 4 | 404 | 7.1 | 27 | J | 7.6 | -25 | 80 | 1.1 | 4.8 | -4.9 | 3 | J |
| 5 | 402 | 9.4 | 59 | J | 7.7 | 60 | 131 | -2.2 | 4.7 | 4.4 | 4 | J |
| 6 | 406 | 9.0 | 44 | J | 8.6 | 56 | 120 | -2.1 | 6.0 | 4.0 | 4 | J |
| 7 | 411 | 7.6 | 42 | J | 9.3 | 36 | 104 | -1.8 | 8.7 | 1.2 | 2 | J |
| 8 | 407 | 9.2 | 36 | J | 8.8 | -17 | 98 | -1.1 | 5.3 | -6.0 | 4 | J |
| 9 | 402 | 8.8 | 18 | J | 9.7 | -41 | 85 | 0.6 | 2.6 | -9.2 | 1 | J |
| 10 | 384 | 10.3 | 0 | C | 10.0 | -39 | 87 | 0.5 | 2.8 | -9.5 | 1 | C |
| 11 | 386 | 10.4 | 0 | C | 9.8 | -36 | 75 | 2.1 | 3.0 | -9.0 | 0 | C |
| 12 | 391 | 10.4 | 0 | C | 9.5 | -34 | 77 | 1.8 | 3.3 | -8.6 | 1 | C |
| 13 | 384 | 10.5 | 0 | C | 8.8 | -36 | 89 | 0.1 | 3.1 | -8.0 | 2 | C |
| 14 | 418 | 8.9 | 26 | J | 8.6 | -35 | 114 | -2.8 | 2.8 | -7.3 | 2 | C |
| 15 | 398 | 9.7 | 30 | J | 8.6 | -37 | 104 | -1.6 | 3.1 | -7.4 | 3 | J |
| 16 | 385 | 12.2 | 0 | C | 8.4 | -31 | 135 | -4.2 | 2.2 | -5.1 | 5 | J |
| 17 | 390 | 12.5 | 0 | C | 8.7 | -23 | 89 | 0.1 | 5.8 | -6.0 | 2 | C |
| 18 | 393 | 12.3 | 0 | C | 8.7 | -32 | 81 | 1.1 | 4.8 | -6.3 | 3 | C |
| 19 | 382 | 9.6 | 91 | J | 7.9 | -51 | 184 | -4.6 | -2.1 | -5.4 | 3 | J |
| 20 | 406 | 10.6 | 72 | J | 8.4 | -28 | 95 | -0.5 | 4.4 | -4.2 | 6 | J |
| 21 | 380 | 12.8 | 0 | C | 8.6 | -60 | 163 | -2.9 | -0.4 | -5.3 | 6 | J |
| 22 | 385 | 10.6 | 87 | J | 7.8 | -47 | 195 | -4.5 | -2.2 | -4.6 | 4 | J |
| 23 | 394 | 9.9 | 83 | J | 7.7 | -48 | 114 | -1.8 | 2.9 | -5.6 | 4 | J |
| 24 | 400 | 10.7 | 87 | J | 7.5 | -18 | 97 | -0.8 | 6.0 | -3.5 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 391 | 9.2 | 95 | J | 7.3 | -42 | 144 | -3.2 | 1.5 | -4.1 | 5 | J |
| 2 | 390 | 10.4 | 0 | C | 8.0 | -18 | 97 | -0.8 | 6.1 | -4.0 | 3 | C |
| 3 | 393 | 11.0 | 0 | C | 8.3 | 10 | 88 | 0.3 | 7.4 | -0.9 | 3 | C |
| 4 | 408 | 10.9 | 0 | C | 8.4 | -9 | 93 | -0.3 | 6.0 | -3.4 | 4 | C |
| 5 | 417 | 7.9 | 67 | J | 7.8 | -23 | 129 | -3.9 | 3.4 | -4.4 | 4 | J |
| 6 | 435 | 8.2 | 84 | J | 8.3 | -4 | 90 | 0.0 | 6.8 | -4.0 | 2 | J |
| 7 | 418 | 7.1 | 48 | J | 8.0 | -36 | 135 | -4.2 | 1.6 | -5.8 | 3 | J |
| 8 | 419 | 6.9 | 48 | J | 7.4 | -39 | 142 | -4.2 | 0.5 | -5.4 | 3 | J |
| 9 | 418 | 7.1 | 60 | J | 6.4 | 11 | 108 | -1.4 | 4.0 | -1.6 | 5 | J |
| 10 | 402 | 6.1 | 60 | J | 6.4 | -7 | 122 | -3.2 | 3.8 | -3.5 | 2 | J |
| 11 | 401 | 7.4 | 0 | C | 6.3 | -9 | 146 | -4.9 | 2.2 | -2.7 | 1 | C |
| 12 | 389 | 6.0 | 64 | J | 6.3 | -20 | 158 | -5.3 | 0.6 | -2.9 | 2 | J |
| 13 | 395 | 6.0 | 73 | J | 6.2 | -28 | 179 | -5.3 | -1.5 | -2.4 | 2 | J |
| 14 | 394 | 6.4 | 63 | J | 6.2 | -38 | 181 | -4.6 | -1.9 | -3.0 | 2 | J |
| 15 | 381 | 6.9 | 43 | J | 5.7 | -38 | 235 | -2.4 | -4.5 | -1.2 | 2 | J |
| 16 | 377 | 6.4 | 33 | J | 6.0 | -50 | 170 | -3.7 | -1.4 | -4.3 | 2 | J |
| 17 | 375 | 6.9 | 39 | J | 5.6 | -21 | 91 | -0.1 | 3.9 | -3.7 | 2 | C |
| 18 | 367 | 6.9 | 46 | J | 5.7 | -20 | 80 | 0.9 | 4.2 | -3.5 | 1 | C |
| 19 | 387 | 7.4 | 52 | J | 5.5 | -3 | 87 | 0.3 | 4.5 | -1.7 | 2 | C |
| 20 | 391 | 6.9 | 44 | J | 5.2 | 1 | 87 | 0.2 | 4.1 | -1.1 | 3 | C |
| 21 | 384 | 6.8 | 48 | J | 5.0 | 0 | 104 | -1.0 | 3.9 | -0.9 | 2 | C |
| 22 | 374 | 7.6 | 0 | C | 4.5 | -13 | 144 | -3.1 | 2.0 | -1.3 | 2 | C |
| 23 | 380 | 7.9 | 0 | C | 4.5 | -46 | 59 | 1.4 | 1.7 | -3.2 | 2 | C |
| 24 | 381 | 7.4 | 0 | C | 4.6 | -23 | 49 | 2.4 | 2.3 | -2.1 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 7.9 | 0 | C | 4.6 | 14 | 78 | 0.7 | 3.6 | 0.1 | 3 | C |
| 2 | 362 | 9.2 | 0 | C | 4.5 | -22 | 142 | -3.0 | 1.9 | -2.1 | 2 | C |
| 3 | 366 | 9.9 | 0 | C | 4.6 | 34 | 105 | -0.9 | 3.9 | 1.2 | 2 | C |
| 4 | 371 | 10.6 | 0 | C | 4.8 | 48 | 44 | 2.2 | 3.1 | 2.4 | 1 | C |
| 5 | 367 | 11.4 | 0 | C | 3.8 | 51 | 14 | 2.2 | 1.6 | 2.3 | 2 | C |
| 6 | 360 | 10.9 | 0 | C | 4.7 | 69 | 91 | -0.0 | 2.5 | 2.3 | 3 | C |
| 7 | 361 | 11.2 | 0 | C | 4.4 | 69 | 104 | -0.4 | 3.3 | 2.8 | 0 | C |
| 8 | 352 | 11.8 | 0 | C | 4.3 | 19 | 92 | -0.1 | 3.1 | -0.7 | 2 | C |
| 9 | 347 | 12.2 | 0 | C | 4.4 | 16 | 120 | -1.7 | 2.9 | -0.8 | 3 | C |
| 10 | 350 | 12.5 | 0 | C | 4.0 | 23 | 215 | -2.8 | -0.8 | 2.3 | 2 | C |
| 11 | 344 | 12.5 | 0 | C | 4.5 | 2 | 210 | -3.8 | -1.7 | 1.4 | 1 | C |
| 12 | 337 | 12.2 | 0 | C | 4.2 | 13 | 177 | -3.9 | 0.7 | 0.6 | 1 | C |
| 13 | 334 | 12.2 | 0 | C | 3.9 | 31 | 172 | -2.7 | 1.2 | 1.1 | 2 | C |
| 14 | 334 | 11.9 | 0 | C | 4.4 | 5 | 217 | -2.9 | -1.7 | 1.4 | 2 | C |
| 15 | 331 | 11.8 | 0 | C | 5.2 | 10 | 201 | -4.5 | -1.1 | 1.5 | 2 | C |
| 16 | 328 | 13.2 | 0 | C | 5.3 | 15 | 162 | -4.6 | 1.9 | 0.5 | 1 | C |
| 17 | 325 | 15.2 | 0 | C | 4.3 | -13 | 142 | -2.9 | 1.7 | -1.6 | 2 | C |
| 18 | 337 | 14.1 | 0 | C | 4.3 | 18 | 70 | 1.4 | 3.9 | -0.1 | 1 | C |
| 19 | 335 | 14.7 | 0 | C | 4.2 | 23 | 108 | -1.1 | 3.6 | 0.4 | 1 | C |
| 20 | 329 | 15.7 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 329 | 15.7 | 0 | C | 4.8 | -9 | 105 | -1.1 | 3.9 | -1.6 | 2 | C |
| 22 | 326 | 16.0 | 0 | C | 4.6 | -31 | 118 | -1.8 | 2.8 | -2.9 | 1 | C |
| 23 | 323 | 16.1 | 0 | C | 5.0 | 2 | 106 | -1.3 | 4.2 | -0.7 | 2 | C |
| 24 | 330 | 16.2 | 0 | C | 5.3 | -25 | 63 | 2.1 | 3.6 | -3.0 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 306 | 17.3 | 0 | C | 6.1 | 18 | 147 | -4.8 | 3.4 | 1.1 | 1 | C |
| 2 | 315 | 17.8 | 0 | C | 6.4 | 20 | 136 | -4.1 | 4.4 | 1.0 | 2 | C |
| 3 | 313 | 17.4 | 0 | C | 6.6 | 14 | 134 | -4.3 | 4.8 | 0.1 | 1 | C |
| 4 | 309 | 19.1 | 0 | C | 6.2 | -1 | 129 | -3.9 | 4.5 | -1.8 | 1 | C |
| 5 | 308 | 19.6 | 0 | C | 6.5 | -13 | 137 | -4.6 | 3.4 | -3.0 | 0 | C |
| 6 | 309 | 20.5 | 0 | C | 6.1 | -9 | 130 | -3.8 | 3.7 | -2.8 | 1 | C |
| 7 | 304 | 20.9 | 0 | C | 5.4 | -6 | 121 | -2.8 | 3.7 | -2.7 | 1 | C |
| 8 | 298 | 21.4 | 0 | C | 4.4 | 0 | 124 | -2.4 | 3.1 | -1.9 | 1 | C |
| 9 | 294 | 23.4 | 0 | C | 3.7 | 2 | 130 | -2.3 | 2.4 | -1.4 | 1 | C |
| 10 | 298 | 29.8 | 0 | C | 2.0 | -64 | 10 | 0.7 | -0.8 | -1.3 | 1 | C |
| 11 | 299 | 38.1 | 0 | C | 3.0 | 4 | 315 | 1.2 | -0.9 | 0.8 | 2 | C |
| 12 | 329 | 35.3 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 329 | 35.3 | 0 | C | 7.0 | 23 | 315 | 3.2 | -1.6 | 3.4 | 5 | C |
| 14 | 331 | 48.2 | 0 | C | 11.9 | 36 | 299 | 3.5 | -2.7 | 7.7 | 7 | C |
| 15 | 367 | 25.3 | 0 | C | 16.0 | -31 | 307 | 7.8 | -12.9 | -1.8 | 4 | C |
| 16 | 397 | 16.4 | 0 | C | 14.4 | -4 | 293 | 4.9 | -10.9 | 4.3 | 6 | C |
| 17 | 422 | 19.8 | 0 | C | 14.2 | -18 | 291 | 4.3 | -11.7 | 0.9 | 5 | C |
| 18 | 415 | 18.0 | 0 | C | 15.0 | -8 | 300 | 5.9 | -10.2 | 1.9 | 8 | C |
| 19 | 451 | 21.3 | 0 | C | 12.9 | 5 | 287 | 3.4 | -10.5 | 4.5 | 4 | C |
| 20 | 455 | 20.7 | 0 | C | 11.9 | -9 | 293 | 3.8 | -9.1 | 0.9 | 5 | C |
| 21 | 446 | 20.7 | 0 | C | 11.3 | 20 | 342 | 7.4 | -1.7 | 3.3 | 7 | C |
| 22 | 465 | 20.2 | 0 | C | 10.7 | -13 | 2 | 4.7 | -0.1 | -1.1 | 9 | C |
| 23 | 458 | 19.6 | 0 | C | 10.3 | -10 | 12 | 8.9 | 1.6 | -1.9 | 4 | C |
| 24 | 456 | 18.2 | 0 | C | 10.0 | -13 | 6 | 8.0 | 0.4 | -2.0 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 475 | 13.9 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 475 | 13.9 | 0 | C | 11.6 | 2 | 296 | 4.2 | -7.5 | 4.5 | 5 | C |
| 8 | 464 | 13.2 | 0 | C | 11.6 | -11 | 301 | 5.4 | -8.7 | 3.0 | 3 | C |
| 9 | 467 | 13.5 | 0 | C | 10.9 | 6 | 305 | 5.2 | -5.8 | 4.9 | 5 | C |
| 10 | 462 | 13.1 | 0 | C | 10.3 | 16 | 318 | 6.3 | -3.3 | 5.2 | 4 | C |
| 11 | 458 | 13.4 | 0 | C | 10.4 | -29 | 319 | 6.2 | -7.0 | -0.7 | 4 | C |
| 12 | 450 | 13.3 | 0 | C | 10.0 | -3 | 316 | 5.4 | -4.6 | 2.7 | 6 | C |
| 13 | 469 | 10.7 | 0 | C | 10.1 | -6 | 320 | 6.3 | -5.0 | 2.2 | 4 | C |
| 14 | 481 | 8.1 | 0 | C | 9.6 | -25 | 337 | 6.9 | -4.3 | -1.4 | 4 | C |
| 15 | 484 | 7.7 | 0 | C | 9.3 | 13 | 310 | 5.2 | -4.5 | 4.6 | 3 | C |
| 16 | 491 | 7.7 | 0 | C | 9.7 | 1 | 312 | 5.7 | -5.6 | 2.9 | 4 | C |
| 17 | 481 | 7.8 | 0 | C | 9.4 | 3 | 325 | 6.2 | -3.8 | 2.1 | 4 | C |
| 18 | 492 | 7.8 | 0 | C | 9.3 | 28 | 291 | 2.9 | -5.5 | 6.5 | 1 | C |
| 19 | 487 | 7.4 | 0 | C | 9.3 | 50 | 324 | 3.8 | -0.9 | 6.1 | 5 | C |
| 20 | 478 | 7.7 | 0 | C | 9.1 | -6 | 4 | 8.3 | 0.4 | -1.0 | 3 | C |
| 21 | 475 | 7.8 | 0 | C | 9.5 | 2 | 289 | 2.5 | -6.9 | 1.9 | 5 | C |
| 22 | 479 | 7.1 | 0 | C | 9.5 | -3 | 296 | 3.7 | -7.7 | 1.2 | 4 | C |
| 23 | 472 | 7.2 | 0 | C | 9.2 | -25 | 311 | 5.0 | -6.3 | -2.4 | 3 | C |
| 24 | 471 | 6.6 | 0 | C | 9.1 | -2 | 319 | 6.5 | -5.6 | 0.9 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 460 | 6.2 | 0 | C | 9.0 | -6 | 321 | 5.3 | -4.4 | 0.3 | 5 | C |
| 2 | 465 | 5.4 | 0 | C | 8.4 | -13 | 314 | 5.2 | -5.6 | -0.3 | 3 | C |
| 3 | 467 | 5.4 | 0 | C | 8.3 | -8 | 331 | 6.8 | -4.0 | 0.1 | 2 | C |
| 4 | 461 | 5.4 | 0 | C | 8.2 | 5 | 343 | 7.7 | -1.9 | 1.5 | 1 | C |
| 5 | 462 | 5.4 | 0 | C | 8.2 | 1 | 329 | 6.7 | -3.6 | 1.7 | 2 | C |
| 6 | 471 | 5.2 | 0 | C | 8.1 | -4 | 323 | 5.9 | -4.3 | 1.6 | 2 | C |
| 7 | 486 | 5.0 | 0 | C | 8.0 | -8 | 323 | 6.1 | -4.6 | 1.3 | 1 | C |
| 8 | 490 | 4.8 | 0 | C | 7.9 | 2 | 319 | 5.6 | -4.1 | 2.8 | 2 | C |
| 9 | 490 | 4.7 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 490 | 4.6 | 0 | C | 7.7 | -26 | 304 | 3.6 | -6.3 | 0.5 | 2 | C |
| 11 | 488 | 4.7 | 0 | C | 7.0 | 14 | 327 | 4.3 | -1.5 | 2.6 | 4 | C |
| 12 | 493 | 4.6 | 0 | C | 7.4 | -22 | 307 | 3.9 | -5.8 | 0.8 | 1 | C |
| 13 | 486 | 4.5 | 0 | C | 7.3 | -3 | 308 | 3.7 | -4.2 | 2.3 | 4 | C |
| 14 | 486 | 4.5 | 0 | C | 7.2 | -8 | 320 | 5.0 | -4.1 | 1.4 | 2 | C |
| 15 | 484 | 4.6 | 0 | C | 6.9 | -20 | 334 | 5.6 | -3.5 | -0.6 | 1 | C |
| 16 | 489 | 4.6 | 0 | C | 6.8 | -7 | 315 | 4.0 | -3.9 | 1.1 | 3 | C |
| 17 | 491 | 4.6 | 0 | C | 6.7 | -8 | 296 | 2.3 | -4.6 | 1.2 | 4 | C |
| 18 | 487 | 4.7 | 0 | C | 6.8 | -1 | 265 | -0.6 | -6.4 | 2.2 | 0 | C |
| 19 | 483 | 4.7 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 483 | 4.7 | 0 | C | 7.1 | 0 | 263 | -0.8 | -6.4 | 1.8 | 2 | C |
| 21 | 467 | 5.2 | 0 | C | 6.8 | 25 | 304 | 2.0 | -2.5 | 2.2 | 5 | C |
| 22 | 469 | 5.2 | 0 | C | 6.7 | 1 | 327 | 4.8 | -3.0 | 0.8 | 3 | C |
| 23 | 473 | 4.9 | 0 | C | 6.7 | 19 | 344 | 5.0 | -1.0 | 2.0 | 3 | C |
| 24 | 453 | 4.9 | 0 | C | 6.7 | 9 | 318 | 4.1 | -3.5 | 1.6 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 469 | 4.8 | 0 | C | 6.6 | -20 | 327 | 4.7 | -3.5 | -1.3 | 2 | C |
| 2 | 470 | 4.8 | 0 | C | 6.5 | -29 | 330 | 4.6 | -3.4 | -2.2 | 1 | C |
| 3 | 460 | 4.8 | 0 | C | 6.6 | -26 | 322 | 4.6 | -4.2 | -1.7 | 1 | C |
| 4 | 460 | 4.8 | 0 | C | 6.2 | 31 | 344 | 4.4 | -0.2 | 3.1 | 2 | C |
| 5 | 459 | 5.1 | 0 | C | 6.3 | 38 | 326 | 3.3 | -0.9 | 3.8 | 3 | C |
| 6 | 447 | 5.1 | 0 | C | 6.4 | -3 | 316 | 4.2 | -3.7 | 1.5 | 2 | C |
| 7 | 439 | 4.9 | 0 | C | 6.4 | 3 | 333 | 5.5 | -2.3 | 1.7 | 1 | C |
| 8 | 451 | 5.1 | 0 | C | 6.9 | -20 | 295 | 2.6 | -6.0 | 1.0 | 1 | C |
| 9 | 454 | 4.9 | 0 | C | 7.2 | -22 | 284 | 1.6 | -6.7 | 1.3 | 1 | C |
| 10 | 445 | 5.3 | 0 | C | 6.7 | -19 | 294 | 2.3 | -5.2 | 1.2 | 2 | C |
| 11 | 450 | 5.7 | 0 | C | 6.7 | 8 | 277 | 0.7 | -4.2 | 3.8 | 3 | J |
| 12 | 444 | 5.5 | 0 | C | 6.2 | 18 | 278 | 0.7 | -3.2 | 4.1 | 3 | C |
| 13 | 449 | 5.7 | 0 | C | 6.4 | -49 | 298 | 1.8 | -5.2 | -1.8 | 3 | J |
| 14 | 456 | 5.8 | 0 | C | 6.1 | -46 | 253 | -1.2 | -5.4 | -1.5 | 2 | J |
| 15 | 442 | 5.5 | 0 | C | 6.3 | 22 | 283 | 1.1 | -3.5 | 4.3 | 2 | C |
| 16 | 455 | 5.4 | 106 | L | 6.7 | 21 | 287 | 1.5 | -3.5 | 3.9 | 4 | J |
| 17 | 437 | 6.1 | 0 | C | 6.1 | -38 | 303 | 2.1 | -4.2 | -1.5 | 3 | J |
| 18 | 431 | 5.3 | 122 | L | 6.1 | -22 | 321 | 3.3 | -3.1 | -0.7 | 4 | J |
| 19 | 436 | 6.3 | 0 | C | 6.3 | 0 | 274 | 0.4 | -5.4 | 1.7 | 3 | J |
| 20 | 461 | 11.4 | 0 | C | 7.2 | 22 | 271 | 0.1 | -5.1 | 3.9 | 3 | J |
| 21 | 461 | 11.4 | 0 | C | 19.4 | 3 | 264 | -1.4 | -13.0 | 3.9 | 12 | C |
| 22 | 674 | 25.8 | 0 | C | 18.3 | 22 | 269 | -0.3 | -14.7 | 10.0 | 4 | J |
| 23 | 640 | 22.2 | 0 | C | 15.3 | 49 | 282 | 1.5 | -5.4 | 9.8 | 11 | J |
| 24 | 630 | 16.6 | 0 | C | 16.1 | 49 | 270 | -0.0 | -4.0 | 7.2 | 14 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 563 | 7.7 | 0 | C | 13.0 | 47 | 2 | 7.6 | 2.2 | 7.9 | 6 | C |
| 2 | 620 | 5.9 | 0 | C | 10.3 | 29 | 170 | -5.5 | 1.7 | 2.7 | 7 | C |
| 3 | 659 | 5.2 | 0 | C | 9.5 | -12 | 182 | -8.5 | -0.8 | -1.7 | 4 | C |
| 4 | 646 | 5.2 | 0 | C | 9.1 | -4 | 214 | -6.5 | -4.3 | 1.0 | 6 | J |
| 5 | 658 | 3.9 | 0 | C | 10.9 | -21 | 213 | -8.5 | -6.6 | -1.4 | 1 | J |
| 6 | 672 | 3.9 | 0 | C | 10.9 | -35 | 173 | -8.2 | -1.7 | -5.6 | 4 | J |
| 7 | 691 | 5.6 | 0 | C | 9.6 | -43 | 180 | -6.5 | -2.9 | -5.3 | 4 | J |
| 8 | 701 | 8.1 | 0 | C | 10.2 | -11 | 220 | -7.2 | -6.1 | 1.6 | 4 | J |
| 9 | 701 | 11.1 | 0 | C | 10.2 | -2 | 223 | -6.7 | -5.4 | 3.1 | 5 | J |
| 10 | 689 | 12.2 | 0 | C | 9.1 | -7 | 207 | -7.2 | -3.6 | 1.2 | 4 | J |
| 11 | 710 | 15.1 | 0 | C | 7.0 | -22 | 186 | -4.6 | -1.5 | -1.3 | 5 | J |
| 12 | 685 | 12.0 | 0 | C | 6.9 | 3 | 252 | -1.6 | -3.8 | 2.9 | 4 | C |
| 13 | 668 | 8.9 | 61 | J | 7.3 | -29 | 172 | -5.9 | -1.1 | -3.2 | 3 | J |
| 14 | 672 | 9.1 | 59 | J | 7.0 | -27 | 139 | -4.7 | 1.9 | -4.8 | 1 | J |
| 15 | 636 | 9.6 | 0 | C | 4.8 | -28 | 219 | -1.6 | -1.6 | -0.3 | 4 | C |
| 16 | 590 | 6.5 | 0 | C | 5.5 | -1 | 163 | -5.2 | 1.4 | -0.8 | 1 | C |
| 17 | 543 | 4.8 | 0 | C | 5.4 | -4 | 171 | -5.3 | 0.6 | -0.7 | 1 | C |
| 18 | 596 | 3.2 | 63 | J | 4.5 | -2 | 180 | -4.1 | -0.0 | -0.1 | 1 | J |
| 19 | 585 | 4.2 | 54 | J | 5.1 | 5 | 181 | -4.8 | 0.0 | 0.4 | 1 | J |
| 20 | 575 | 8.6 | 69 | J | 3.7 | 0 | 141 | -2.3 | 1.8 | -0.5 | 2 | J |
| 21 | 571 | 10.4 | 0 | C | 4.8 | -16 | 90 | 0.0 | 3.1 | -1.7 | 4 | J |
| 22 | 565 | 5.5 | 59 | J | 5.2 | -24 | 210 | -3.7 | -2.5 | -1.4 | 2 | J |
| 23 | 563 | 4.5 | 57 | J | 6.2 | -19 | 217 | -4.5 | -3.7 | -1.2 | 2 | J |
| 24 | 553 | 3.7 | 39 | J | 5.8 | -30 | 214 | -3.9 | -3.1 | -2.1 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 533 | 3.5 | 41 | J | 5.5 | -14 | 216 | -3.9 | -3.0 | -0.5 | 2 | J |
| 449 | 5.4 | 0 | C | 5.1 | -10 | 224 | -3.5 | -3.5 | 0.1 | 1 | C |
| 482 | 5.1 | 0 | C | 4.4 | -13 | 226 | -2.7 | -2.9 | -0.1 | 2 | C |
| 499 | 4.5 | 0 | C | 4.7 | -59 | 176 | -1.8 | -0.9 | -2.8 | 3 | C |
| 513 | 4.0 | 62 | J | 4.8 | -69 | 276 | 0.1 | -2.2 | -2.2 | 4 | J |
| 515 | 3.8 | 63 | J | 4.1 | 1 | 105 | -0.1 | 0.3 | -0.2 | 4 | J |
| 521 | 3.1 | 64 | J | 4.7 | -55 | 189 | -2.4 | -2.0 | -2.9 | 2 | J |
| 495 | 3.8 | 118 | J | 3.2 | -48 | 298 | 0.8 | -2.4 | -0.9 | 2 | J |
| 497 | 4.4 | 0 | C | 5.7 | 33 | 347 | 4.5 | 0.7 | 3.0 | 1 | C |
| 500 | 5.7 | 0 | C | 4.8 | 21 | 351 | 4.2 | 0.4 | 1.7 | 1 | C |
| 494 | 6.7 | 0 | C | 4.3 | -1 | 4 | 4.2 | 0.2 | -0.2 | 1 | C |
| 467 | 5.6 | 0 | C | 4.5 | 1 | 30 | 3.9 | 1.9 | -1.2 | 0 | C |
| 457 | 3.4 | 0 | C | 4.2 | -16 | 22 | 3.1 | 0.5 | -1.5 | 2 | C |
| 480 | 3.1 | 0 | C | 4.6 | -42 | 331 | 2.5 | -2.5 | -1.4 | 2 | C |
| 465 | 3.2 | 0 | C | 4.8 | -15 | 351 | 4.0 | -1.1 | -0.6 | 2 | C |
| 447 | 3.0 | 0 | C | 4.2 | 10 | 15 | 3.9 | 1.2 | 0.2 | 1 | C |
| 465 | 2.9 | 0 | C | 4.2 | -39 | 41 | 2.2 | 0.8 | -2.9 | 1 | C |
| 469 | 3.0 | 0 | C | 4.7 | -43 | 346 | 2.9 | -1.6 | -2.3 | 2 | C |
| 432 | 5.2 | 0 | C | 4.6 | -53 | 1 | 2.2 | -0.8 | -2.8 | 3 | J |
| 403 | 3.6 | 0 | C | 4.5 | -55 | 357 | 2.5 | -1.1 | -3.4 | 1 | J |
| 450 | 3.4 | 28 | J | 5.2 | -13 | 350 | 4.9 | -1.1 | -0.9 | 1 | J |
| 457 | 3.2 | 38 | J | 4.8 | -37 | 352 | 3.7 | -1.1 | -2.7 | 1 | J |
| 468 | 2.4 | 58 | J | 5.0 | -37 | 339 | 3.6 | -1.9 | -2.6 | 2 | J |
| 431 | 2.7 | 0 | C | 5.2 | -33 | 2 | 4.0 | -0.4 | -2.6 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 439 | 2.4 | 22 | J | 5.2 | -11 | 357 | 4.7 | -0.5 | -0.8 | 2 | J |
| 2 | 453 | 3.2 | 0 | C | 5.3 | -2 | 343 | 4.9 | -1.5 | 0.2 | 1 | J |
| 3 | 439 | 2.6 | 23 | J | 5.6 | 9 | 339 | 5.0 | -1.6 | 1.4 | 1 | J |
| 4 | 433 | 2.3 | 28 | J | 5.4 | 16 | 360 | 5.0 | 0.5 | 1.3 | 1 | J |
| 5 | 438 | 3.3 | 31 | J | 5.7 | 31 | 339 | 4.5 | -0.5 | 3.3 | 1 | J |
| 6 | 432 | 3.2 | 38 | J | 5.3 | -36 | 8 | 4.2 | -0.8 | -3.1 | 0 | J |
| 7 | 420 | 3.0 | 33 | J | 5.2 | -11 | 352 | 4.5 | -1.0 | -0.5 | 2 | J |
| 8 | 411 | 3.4 | 30 | J | 5.2 | -30 | 348 | 4.1 | -2.0 | -1.6 | 2 | J |
| 9 | 412 | 3.7 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 426 | 3.7 | 0 | C | 5.9 | -23 | 319 | 4.0 | -4.2 | 0.1 | 1 | C |
| 11 | 426 | 3.7 | 0 | C | 5.7 | -22 | 326 | 4.2 | -3.5 | -0.1 | 1 | C |
| 12 | 418 | 3.7 | 0 | C | 5.8 | -22 | 345 | 5.1 | -2.3 | -1.0 | 1 | C |
| 13 | 401 | 5.0 | 45 | J | 5.9 | -16 | 350 | 5.5 | -1.7 | -0.8 | 1 | J |
| 14 | 403 | 3.3 | 38 | J | 5.5 | -7 | 353 | 5.0 | -0.9 | -0.2 | 2 | J |
| 15 | 401 | 4.0 | 0 | C | 6.0 | -17 | 20 | 5.3 | 0.8 | -2.4 | 1 | C |
| 16 | 399 | 3.9 | 0 | C | 6.1 | -2 | 15 | 5.7 | 1.3 | -0.9 | 1 | C |
| 17 | 385 | 3.4 | 23 | J | 6.0 | 3 | 344 | 5.7 | -1.4 | 0.9 | 1 | J |
| 18 | 384 | 3.3 | 26 | J | 5.5 | -12 | 351 | 5.2 | -1.2 | -0.8 | 1 | J |
| 19 | 380 | 3.7 | 29 | J | 5.8 | 3 | 344 | 5.5 | -1.4 | 0.7 | 1 | J |
| 20 | 384 | 4.1 | 27 | J | 6.0 | 7 | 338 | 5.4 | -1.9 | 1.3 | 1 | J |
| 21 | 390 | 4.6 | 30 | J | 6.0 | 12 | 336 | 5.2 | -2.0 | 1.7 | 2 | J |
| 22 | 379 | 4.7 | 31 | J | 6.0 | -10 | 341 | 5.6 | -2.1 | -0.6 | 1 | J |
| 23 | 377 | 5.3 | 33 | J | 6.1 | -10 | 338 | 5.6 | -2.4 | -0.6 | 1 | J |
| 24 | 375 | 5.4 | 24 | J | 5.9 | -1 | 340 | 5.5 | -2.0 | 0.3 | 1 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 362 | 5.5 | 0 | C | 6.0 | -3 | 332 | 5.3 | -2.8 | 0.3 | 0 | J |
| 356 | 5.4 | 0 | C | 5.8 | 2 | 349 | 5.7 | -1.0 | 0.5 | 0 | C |
| 359 | 6.0 | 0 | C | 5.5 | 0 | 349 | 5.4 | -1.0 | 0.3 | 0 | C |
| 358 | 6.6 | 0 | C | 5.6 | 0 | 352 | 5.5 | -0.7 | 0.3 | 0 | C |
| 371 | 7.4 | 19 | J | 5.9 | -10 | 342 | 5.3 | -2.0 | -0.2 | 2 | J |
| 368 | 5.7 | 20 | J | 5.3 | -12 | 357 | 5.1 | -0.7 | -0.9 | 1 | J |
| 371 | 9.4 | 19 | J | 5.9 | -13 | 355 | 5.6 | -1.1 | -0.9 | 1 | J |
| 370 | 9.9 | 20 | J | 5.7 | -8 | 351 | 5.5 | -1.2 | -0.2 | 1 | J |
| 364 | 7.5 | 18 | J | 6.4 | 7 | 350 | 6.2 | -0.5 | 1.2 | 1 | J |
| 360 | 5.7 | 18 | J | 5.9 | -3 | 353 | 5.7 | -0.8 | 0.1 | 1 | J |
| 339 | 11.3 | 0 | C | 8.0 | -13 | 353 | 7.6 | -1.8 | -0.9 | 1 | C |
| 333 | 11.2 | 0 | C |  |  |  |  |  |  |  |  |
| 374 | 10.9 | 21 | J | 8.3 | -26 | 356 | 6.5 | -2.1 | -2.4 | 4 | J |
| 357 | 9.1 | 29 | J | 7.6 | -11 | 10 | 6.8 | 0.3 | -1.8 | 3 | J |
| 356 | 10.3 | 31 | J | 7.4 | 9 | 27 | 6.3 | 3.4 | -0.5 | 2 | J |
| 342 | 8.7 | 0 | C | 7.2 | -14 | 3 | 6.9 | -0.5 | -1.7 | 1 | C |
| 345 | 9.1 | 50 | J | 6.2 | -21 | 359 | 5.8 | -1.0 | -2.0 | 0 | J |
| 341 | 8.1 | 34 | J | 6.4 | -16 | 3 | 6.0 | -0.3 | -1.7 | 1 | J |
| 340 | 7.9 | 30 | J | 6.6 | -11 | 5 | 6.4 | 0.2 | -1.3 | 1 | J |
| 333 | 7.7 | 16 | J | 6.4 | -6 | 358 | 6.3 | -0.4 | -0.6 | 1 | J |
| 332 | 8.3 | 17 | J | 6.1 | -5 | 14 | 5.7 | 1.3 | -0.8 | 1 | J |
| 335 | 9.4 | 0 | C | 6.6 | -11 | 22 | 5.4 | 1.9 | -1.5 | 3 | C |
| 355 | 9.8 | 45 | J | 5.7 | -37 | 332 | 4.0 | -2.8 | -2.9 | 1 | J |
| 360 | 9.5 | 38 | J | 5.6 | -39 | 330 | 3.7 | -2.8 | -3.0 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 10.0 | 35 | J | 5.8 | -47 | 338 | 3.7 | -2.4 | -3.8 | 1 | J |
| 2 |  |  |  |  | 6.2 | -56 | 337 | 3.1 | -2.5 | -4.5 | 1 | J |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 379 | 13.4 | 20 | J | 6.6 | -30 | 298 | 2.1 | -4.6 | -1.1 | 4 | J |
| 5 |  |  |  |  | 6.6 | -16 | 276 | 0.6 | -5.8 | 0.7 | 3 | J |
| 6 | 382 | 15.2 | 35 | J | 6.9 | -12 | 263 | -0.8 | -6.6 | 1.6 | 1 | J |
| 7 | 373 | 15.1 | 19 | J | 6.8 | -22 | 273 | 0.3 | -6.6 | 0.8 | 1 | J |
| 8 | 374 | 14.6 | 21 | J | 7.4 | -47 | 309 | 2.6 | -5.1 | -2.1 | 4 | J |
| 9 | 368 | 14.7 | 22 | J | 7.2 | -61 | 4 | 3.4 | -3.1 | -5.3 | 2 | J |
| 10 | 369 | 15.6 | 42 | J | 5.0 | -63 | 316 | 1.4 | -3.2 | -2.4 | 3 | J |
| 11 | 358 | 14.8 | 0 | C | 7.4 | -61 | 346 | 3.0 | -3.8 | -4.2 | 3 | C |
| 12 | 382 | 12.0 | 38 | J | 8.1 | -21 | 67 | 2.5 | 3.6 | -5.4 | 4 | J |
| 13 | 374 | 12.1 | 37 | J | 8.2 | -41 | 62 | 2.7 | 1.6 | -7.0 | 3 | J |
| 14 | 363 | 15.4 | 0 | C | 8.9 | -53 | 329 | 3.5 | -4.6 | -3.6 | 5 | C |
| 15 | 358 | 14.5 | 0 | C | 9.1 | -31 | 347 | 6.7 | -3.4 | -3.0 | 3 | C |
| 16 | 356 | 13.7 | 0 | C | 9.7 | -57 | 48 | 3.5 | 0.0 | -8.8 | 2 | J |
| 17 | 360 | 13.3 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 349 | 10.2 | 0 | C | 11.9 | -79 | 91 | -0.0 | -1.8 | -11.6 | 2 | J |
| 19 | 374 | 9.5 | 21 | J | 11.7 | -73 | 24 | 3.0 | -1.9 | -10.8 | 3 | J |
| 20 | 378 | 8.0 | 23 | J | 12.0 | -66 | 352 | 4.8 | -3.4 | -10.3 | 2 | J |
| 21 | 374 | 16.6 | 55 | J | 10.6 | -46 | 297 | 3.0 | -7.3 | -5.4 | 5 | J |
| 22 | 373 | 29.2 | 36 | J | 10.4 | -50 | 313 | 3.6 | -5.1 | -5.4 | 6 | J |
| 23 | 374 | 15.7 | 57 | J | 10.0 | -6 | 301 | 3.6 | -6.0 | 0.4 | 7 | J |
| 24 | 363 | 18.1 | 76 | J | 9.6 | -14 | 315 | 5.8 | -6.1 | -0.8 | 4 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 360 | 17.8 | 0 | C | 11.4 | 43 | 323 | 6.7 | -3.2 | 8.7 | 1 | J |
| 371 | 16.8 | 0 | C | 11.6 | 43 | 324 | 6.9 | -2.8 | 8.9 | 0 | J |
| 381 | 19.0 | 0 | C | 12.1 | -4 | 45 | 6.1 | 5.7 | -2.4 | 9 | J |
| 381 | 18.3 | 54 | J | 12.9 | -46 | 35 | 6.9 | 1.6 | -9.9 | 4 | J |
| 403 | 18.0 | 54 | J | 11.9 | -54 | 292 | 1.5 | -5.6 | -3.7 | 10 | J |
| 404 | 17.5 | 50 | J | 11.6 | -11 | 285 | 2.7 | -9.8 | 2.6 | 5 | J |
| 420 | 19.2 | 114 | J | 10.1 | 31 | 91 | -0.1 | 9.1 | 0.4 | 5 | J |
| 414 | 23.3 | 0 | C | 9.1 | -19 | 95 | -0.7 | 5.6 | -6.7 | 2 | J |
| 419 | 15.2 | 102 | J | 10.4 | -23 | 90 | 0.0 | 5.7 | -8.4 | 2 | J |
| 420 | 12.8 | 89 | J | 10.5 | -13 | 100 | -1.6 | 6.2 | -6.6 | 5 | J |
| 414 | 14.8 | 112 | J | 10.4 | 43 | 125 | -3.2 | 6.8 | 1.7 | 7 | J |
| 449 | 12.7 | 0 | C | 12.3 | 42 | 184 | -9.0 | 3.9 | 7.1 | 1 | C |
| 441 | 9.1 | 115 | J | 12.2 | 35 | 184 | -9.2 | 2.9 | 5.8 | 4 | J |
| 443 | 8.5 | 92 | J | 12.2 | 29 | 158 | -9.6 | 6.3 | 3.0 | 2 | J |
| 443 | 6.7 | 65 | J | 12.6 | 23 | 161 | -10.4 | 5.4 | 2.4 | 4 | J |
| 461 | 7.0 | 0 | C | 13.0 | 10 | 142 | -10.0 | 7.9 | -1.3 | 2 | C |
| 472 | 7.4 | 0 | C | 12.3 | 15 | 146 | -9.2 | 6.8 | 0.4 | 3 | C |
| 480 | 6.4 | 111 | J | 12.1 | 7 | 142 | -8.7 | 6.8 | -1.0 | 5 | J |
| 491 | 8.6 | 0 | C | 12.4 | -8 | 128 | -7.3 | 8.4 | -4.3 | 4 | J |
| 491 | 8.5 | 0 | C | 12.8 | 7 | 136 | -8.8 | 8.6 | -0.7 | 2 | C |
| 491 | 6.9 | 150 | J | 12.8 | 10 | 119 | -5.3 | 9.8 | -0.2 | 6 | J |
| 470 | 6.1 | 111 | J | 13.1 | -13 | 129 | -8.0 | 9.1 | -4.8 | 2 | J |
| 472 | 6.8 | 117 | J | 12.7 | -3 | 132 | -7.9 | 8.5 | -2.3 | 5 | J |
| 483 | 7.1 | 172 | J | 12.2 | -1 | 128 | -7.0 | 8.7 | -2.0 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 491 | 8.3 | 0 | C | 11.5 | -5 | 117 | -4.9 | 9.3 | -3.0 | 2 | C |
| 2 | 491 | 8.7 | 0 | C | 11.0 | 4 | 128 | -6.5 | 8.1 | -1.3 | 2 | C |
| 3 | 495 | 8.2 | 154 | J | 10.6 | 13 | 125 | -5.5 | 8.2 | -0.2 | 4 | J |
| 4 | 481 | 8.3 | 180 | J | 10.4 | 17 | 132 | -6.6 | 7.9 | 0.4 | 1 | J |
| 5 | 533 | 8.9 | 220 | J | 8.5 | -23 | 94 | -0.5 | 5.1 | -5.3 | 4 | J |
| 6 | 520 | 8.1 | 162 | J | 8.4 | 23 | 126 | -3.9 | 6.1 | 0.2 | 4 | J |
| 7 | 522 | 7.2 | 157 | J | 8.1 | 34 | 142 | -5.0 | 5.5 | 1.9 | 2 | J |
| 8 | 513 | 6.7 | 148 | J | 7.8 | 42 | 167 | -5.4 | 3.6 | 3.6 | 2 | J |
| 9 | 502 | 6.8 | 112 | J | 8.3 | 25 | 158 | -6.9 | 4.2 | 1.4 | 2 | J |
| 10 | 449 | 7.0 | 80 | J | 8.7 | 20 | 159 | -7.3 | 3.9 | 0.8 | 3 | J |
| 11 | 441 | 10.4 | 83 | J | 8.0 | -4 | 131 | -5.0 | 4.5 | -3.7 | 2 | J |
| 12 | 435 | 10.3 | 88 | J | 7.8 | -2 | 139 | -5.9 | 4.1 | -3.1 | 1 | J |
| 13 | 431 | 9.8 | 101 | J | 7.5 | 3 | 151 | -6.4 | 3.2 | -1.6 | 2 | J |
| 14 | 431 | 10.1 | 94 | J | 7.5 | 16 | 153 | -6.3 | 3.8 | 0.1 | 1 | J |
| 15 | 439 | 9.1 | 64 | J | 7.4 | 4 | 134 | -4.8 | 4.6 | -1.9 | 3 | J |
| 16 | 428 | 9.5 | 97 | J | 7.8 | 14 | 168 | -7.0 | 2.1 | 1.0 | 2 | J |
| 17 | 422 | 9.3 | 65 | J | 7.6 | 20 | 168 | -6.2 | 2.1 | 1.6 | 3 | J |
| 18 | 452 | 10.3 | 34 | J | 8.3 | 58 | 138 | -3.3 | 5.1 | 5.7 | 1 | J |
| 19 | 395 | 10.1 | 0 | C | 7.5 | -16 | 191 | -6.8 | -1.9 | -1.6 | 1 | C |
| 20 | 417 | 9.1 | 54 | J | 7.2 | -7 | 195 | -5.8 | -1.7 | -0.3 | 4 | J |
| 21 | 437 | 9.0 | 55 | J | 7.3 | 0 | 223 | -3.9 | -3.5 | 0.8 | 5 | J |
| 22 | 426 | 8.5 | 50 | J | 7.4 | 47 | 215 | -3.7 | -1.6 | 5.3 | 3 | J |
| 23 | 422 | 9.7 | 0 | C | 6.9 | -5 | 222 | -4.6 | -4.2 | 0.2 | 2 | C |
| 24 | 424 | 9.4 | 0 | C | 5.3 | -8 | 198 | -4.1 | -1.4 | -0.4 | 3 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 436 | 11.2 | 0 | C | 4.7 | 31 | 100 | -0.4 | 2.8 | 0.9 | 4 | C |
| 431 | 12.1 | 0 | C | 6.4 | 18 | 74 | 1.7 | 6.1 | 0.5 | 1 | C |
| 423 | 11.5 | 0 | C | 6.2 | -2 | 89 | 0.1 | 5.8 | -2.0 | 1 | C |
| 433 | 9.1 | 0 | C | 6.6 | -26 | 133 | -3.1 | 2.3 | -3.2 | 4 | C |
| 454 | 7.2 | 0 | C | 6.4 | -39 | 155 | -4.2 | 0.3 | -4.2 | 2 | C |
| 457 | 7.3 | 0 | C | 4.9 | 69 | 209 | -1.3 | 1.0 | 3.6 | 2 | C |
| 462 | 7.4 | 0 | C | 6.0 | -32 | 185 | -4.2 | -1.6 | -2.1 | 3 | C |
| 464 | 7.6 | 0 | C | 6.4 | -26 | 137 | -3.4 | 1.5 | -3.6 | 3 | C |
| 463 | 7.8 | 0 | C | 6.5 | -53 | 162 | -2.0 | -1.0 | -2.7 | 5 | C |
| 464 | 8.1 | 0 | C | 6.5 | 1 | 217 | -4.0 | -2.5 | 1.7 | 4 | C |
| 466 | 8.1 | 0 | C | 6.7 | -19 | 170 | -5.9 | -0.3 | -2.2 | 2 | C |
| 472 | 8.0 | 0 | C | 6.7 | -17 | 192 | -5.8 | -2.0 | -0.8 | 2 | C |
| 473 | 8.0 | 0 | C | 6.6 | 17 | 221 | -3.2 | -1.7 | 2.6 | 4 | C |
| 474 | 8.1 | 0 | C | 7.0 | -39 | 174 | -4.0 | -1.3 | -3.0 | 4 | C |
| 511 | 11.5 | 0 | C | 9.3 | -24 | 195 | -6.2 | -2.8 | -1.7 | 5 | C |
| 553 | 14.5 | 0 | C | 10.2 | -17 | 238 | -3.7 | -6.3 | 0.6 | 5 | C |
| 561 | 15.2 | 0 | C | 10.3 | -56 | 242 | -2.2 | -6.3 | -4.7 | 4 | C |
| 546 | 16.0 | 0 | C | 10.2 | -48 | 199 | -2.6 | -1.8 | -2.6 | 8 | C |
| 532 | 16.3 | 0 | C | 11.0 | -18 | 140 | -7.1 | 4.9 | -4.5 | 5 | C |
| 518 | 16.1 | 0 | C | 11.3 | -9 | 103 | -2.5 | 9.7 | -4.2 | 2 | C |
| 497 | 15.6 | 0 | C | 11.0 | -2 | 129 | -6.5 | 7.7 | -2.0 | 3 | C |
| 492 | 15.0 | 0 | C | 10.8 | 4 | 131 | -6.7 | 7.7 | -0.8 | 3 | C |
| 498 | 14.4 | 0 | C | 10.6 | -4 | 103 | -2.3 | 9.8 | -2.6 | 2 | C |
| 495 | 14.0 | 0 | C | 10.5 | -4 | 96 | -1.0 | 9.8 | -2.7 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 486 | 13.5 | 0 | C | 11.1 | -12 | 95 | -0.9 | 10.0 | -4.6 | 1 | C |
| 2 | 470 | 13.3 | 0 | C | 9.9 | -18 | 114 | -3.7 | 7.1 | -4.9 | 3 | C |
| 3 | 451 | 13.8 | 0 | C | 9.3 | -22 | 144 | -6.2 | 3.4 | -4.1 | 4 | C |
| 4 | 444 | 13.9 | 0 | C | 8.8 | -4 | 90 | 0.0 | 7.4 | -3.2 | 3 | C |
| 5 | 434 | 14.4 | 0 | C | 8.5 | -23 | 97 | -0.8 | 5.3 | -5.4 | 3 | C |
| 6 | 436 | 14.5 | 0 | C | 8.5 | -29 | 84 | 0.7 | 4.5 | -6.4 | 2 | C |
| 7 | 454 | 16.0 | 0 | C | 9.5 | -9 | 75 | 2.4 | 7.0 | -5.4 | 2 | C |
| 8 | 483 | 21.8 | 0 | C | 13.3 | -17 | 91 | -0.3 | 8.3 | -9.3 | 4 | C |
| 9 | 489 | 23.6 | 0 | C | 14.8 | -1 | 107 | -4.2 | 11.4 | -7.5 | 4 | C |
| 10 | 469 | 21.8 | 0 | C | 14.2 | -19 | 95 | -1.0 | 8.2 | -10.9 | 3 | C |
| 11 | 463 | 21.6 | 0 | C | 13.8 | -13 | 101 | -2.6 | 8.8 | -9.6 | 3 | C |
| 12 | 457 | 20.4 | 0 | C | 14.0 | -24 | 102 | -2.7 | 7.2 | -11.2 | 3 | C |
| 13 | 447 | 19.3 | 0 | C | 13.9 | -16 | 98 | -1.9 | 8.8 | -10.0 | 3 | C |
| 14 | 440 | 18.8 | 0 | C | 13.1 | -21 | 103 | -2.7 | 7.8 | -10.0 | 2 | C |
| 15 | 431 | 17.5 | 0 | C | 12.5 | -21 | 104 | -2.8 | 7.8 | -9.0 | 2 | C |
| 16 | 420 | 16.1 | 0 | C | 12.1 | -14 | 110 | -3.9 | 8.8 | -7.3 | 1 | C |
| 17 | 414 | 13.3 | 0 | C | 12.1 | -3 | 117 | -5.2 | 9.1 | -4.4 | 3 | C |
| 18 | 420 | 10.8 | 0 | C | 11.6 | -11 | 120 | -5.3 | 8.0 | -4.9 | 4 | C |
| 19 | 419 | 10.3 | 0 | C | 11.2 | -17 | 122 | -5.7 | 7.7 | -5.7 | 1 | C |
| 20 | 406 | 9.7 | 0 | C | 10.5 | 8 | 138 | -7.7 | 7.1 | -0.2 | 1 | C |
| 21 | 406 | 8.8 | 0 | C | 10.0 | 20 | 137 | -6.8 | 6.9 | 2.0 | 1 | C |
| 22 | 404 | 9.0 | 0 | C | 9.9 | 17 | 142 | -7.4 | 6.3 | 1.7 | 1 | C |
| 23 | 404 | 14.4 | 0 | C | 8.9 | 10 | 146 | -7.2 | 5.0 | 0.5 | 2 | C |
| 24 | 415 | 20.3 | 0 | C | 7.4 | -14 | 172 | -6.8 | 0.6 | -1.9 | 2 | C |

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| | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 401 | 15.3 | 0 | C | 7.7 | -25 | 189 | -6.3 | -1.6 | -2.7 | 3 | C |
| | 398 | 12.1 | 0 | C | 8.1 | -26 | 170 | -7.1 | 0.3 | -3.8 | 1 | C |
| | 396 | 10.4 | 0 | C | 7.6 | -26 | 181 | -6.8 | -1.0 | -3.1 | 1 | C |
| | 394 | 11.4 | 0 | C | 6.9 | -27 | 168 | -5.9 | 0.1 | -3.4 | 1 | C |
| | 400 | 15.3 | 0 | C | 5.4 | -57 | 173 | -2.5 | -1.2 | -3.7 | 3 | C |
| | 404 | 19.1 | 0 | C | 5.2 | -83 | 146 | -0.5 | -1.9 | -4.7 | 1 | C |
| | 401 | 18.6 | 0 | C | 5.4 | -77 | 267 | -0.1 | -3.4 | -3.9 | 1 | C |
| | 398 | 17.9 | 0 | C | 5.2 | -75 | 238 | -0.6 | -3.1 | -3.2 | 3 | C |
| | 398 | 17.3 | 0 | C | 4.0 | 79 | 236 | -0.4 | 1.5 | 3.4 | 1 | C |
| | 392 | 13.4 | 0 | C | 4.4 | 53 | 227 | -1.5 | 0.3 | 3.3 | 2 | C |
| | 385 | 8.9 | 0 | C | 6.0 | 39 | 226 | -3.1 | -0.6 | 4.8 | 2 | C |
| | 379 | 6.7 | 0 | C | 6.7 | 24 | 242 | -2.8 | -3.0 | 5.2 | 0 | C |
| | 373 | 6.1 | 0 | C | 6.6 | 36 | 228 | -3.3 | -1.2 | 5.1 | 2 | C |
| | 370 | 5.9 | 0 | C | 6.8 | 47 | 250 | -1.5 | -1.2 | 6.1 | 2 | C |
| | 364 | 6.0 | 0 | C | 6.7 | 25 | 232 | -3.7 | -2.9 | 4.7 | 1 | C |
| | 358 | 6.3 | 0 | C | 6.5 | 22 | 216 | -4.6 | -2.1 | 3.5 | 2 | C |
| | 358 | 6.5 | 0 | C | 6.2 | 32 | 205 | -4.7 | -0.8 | 3.7 | 1 | C |
| | 354 | 6.9 | 0 | C | 6.1 | 22 | 213 | -4.7 | -2.1 | 3.1 | 1 | C |
| | 351 | 7.3 | 0 | C | 6.4 | 32 | 197 | -5.0 | -0.6 | 3.5 | 2 | C |
| | 352 | 8.1 | 0 | C | 6.4 | 26 | 202 | -5.2 | -1.4 | 3.2 | 1 | C |
| | 353 | 8.3 | 0 | C | 6.5 | 22 | 192 | -5.8 | -0.7 | 2.6 | 1 | C |
| | 344 | 8.3 | 0 | C | 7.3 | 13 | 153 | -6.3 | 3.4 | 1.0 | 1 | C |
| | 347 | 8.9 | 0 | C | 7.7 | 16 | 171 | -7.1 | 1.5 | 1.8 | 2 | C |
| | 345 | 8.6 | 0 | C | 8.5 | 11 | 161 | -7.7 | 3.0 | 1.1 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 346 | 9.1 | 0 | C | 8.6 | 18 | 182 | -7.9 | 0.2 | 2.6 | 2 | C |
| 2 | 334 | 9.0 | 0 | C | 8.2 | 5 | 180 | -7.9 | 0.2 | 0.6 | 2 | C |
| 3 | 337 | 8.9 | 0 | C | 7.9 | 36 | 166 | -5.2 | 2.3 | 3.4 | 4 | C |
| 4 | 342 | 8.8 | 0 | C | 7.6 | 62 | 199 | -1.5 | 0.5 | 2.9 | 7 | C |
| 5 | 336 | 8.7 | 0 | C | 7.5 | 33 | 180 | -5.5 | 1.3 | 3.3 | 3 | C |
| 6 | 334 | 8.4 | 0 | C | 7.5 | 21 | 176 | -6.5 | 1.5 | 2.1 | 2 | C |
| 7 | 320 | 8.3 | 0 | C | 7.5 | 35 | 165 | -5.8 | 3.4 | 2.9 | 1 | C |
| 8 | 312 | 8.0 | 0 | C | 7.3 | 10 | 137 | -4.9 | 4.6 | -1.3 | 2 | C |
| 9 | 363 | 19.1 | 0 | C | 2.5 | -4 | 320 | 1.9 | -1.4 | 0.7 | 0 | C |
| 10 | 363 | 19.1 | 0 | C | 2.4 | 9 | 305 | 0.9 | -0.9 | 0.9 | 2 | C |
| 11 | 361 | 19.1 | 0 | C | 1.9 | 49 | 289 | 0.3 | -0.1 | 1.4 | 1 | C |
| 12 | 352 | 18.0 | 0 | C | 1.0 | 52 | 331 | 0.4 | 0.1 | 0.6 | 1 | C |
| 13 | 348 | 15.8 | 0 | C | 1.6 | 85 | 205 | -0.1 | 0.7 | 1.2 | 1 | C |
| 14 | 338 | 12.0 | 0 | C | 2.8 | 65 | 171 | -1.1 | 1.4 | 2.1 | 1 | C |
| 15 | 333 | 8.2 | 0 | C | 5.3 | 58 | 171 | -2.6 | 2.4 | 3.6 | 1 | C |
| 16 | 336 | 12.1 | 0 | C | 2.2 | -17 | 125 | -0.9 | 0.9 | -0.9 | 2 | C |
| 17 | 355 | 12.9 | 0 | C | 1.5 | 48 | 137 | -0.2 | 0.3 | 0.2 | 1 | C |
| 18 | 356 | 11.8 | 0 | C | 2.5 | 12 | 148 | -1.8 | 1.2 | 0.0 | 1 | C |
| 19 | 342 | 12.4 | 0 | C | 3.6 | 0 | 136 | -2.4 | 2.2 | -0.7 | 1 | C |
| 20 | 346 | 13.8 | 0 | C | 2.1 | -20 | 102 | -0.2 | 1.0 | -0.7 | 1 | C |
| 21 | 311 | 12.7 | 0 | C | 4.8 | -42 | 322 | 2.6 | -2.6 | -2.5 | 1 | C |
| 22 | 318 | 15.7 | 0 | C | 5.4 | -39 | 335 | 3.4 | -2.1 | -2.7 | 1 | C |
| 23 | | | | | | | | | | | | |
| 24 | 332 | 17.2 | 0 | C | 11.9 | -33 | 316 | 6.0 | -6.8 | -4.3 | 10 | C |

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| | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 621 | 50.4 | 0 | C | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | 623 | 42.3 | 0 | C | 24.2 | 14 | 297 | 10.3 | -15.4 | 14.9 | 1 | C |
| | 595 | 40.8 | 392 | L | 24.5 | 7 | 293 | 9.4 | -17.2 | 13.7 | 5 | C |
| | 612 | 40.6 | 316 | L | 23.4 | 4 | 257 | -5.2 | -17.9 | 13.4 | 4 | C |
| | 613 | 34.0 | 314 | L | 22.9 | 0 | 262 | -3.1 | -17.9 | 11.9 | 7 | C |
| | 591 | 32.6 | 402 | L | 20.7 | 14 | 276 | 2.1 | -13.7 | 15.0 | 3 | C |
| | 570 | 32.7 | 221 | L | 20.9 | 14 | 290 | 6.7 | -13.1 | 14.3 | 3 | C |
| | 582 | 36.7 | 0 | C | 20.7 | 25 | 295 | 7.7 | -9.7 | 16.3 | 2 | C |
| | 535 | 34.2 | 245 | L | 18.7 | 40 | 296 | 6.1 | -5.0 | 16.5 | 3 | C |
| | 494 | 15.6 | 311 | L | 19.2 | 20 | 295 | 7.4 | -11.3 | 13.0 | 3 | C |
| | 448 | 16.5 | 330 | L | 16.3 | 22 | 314 | 10.1 | -7.0 | 9.8 | 3 | C |
| | 420 | 22.0 | 0 | C | 14.0 | 35 | 313 | 7.3 | -4.4 | 9.8 | 4 | C |
| | 488 | 24.3 | 0 | C | 17.1 | 29 | 303 | 8.1 | -9.0 | 11.7 | 2 | C |
| | 539 | 13.8 | 161 | J | 22.2 | 10 | 299 | 9.4 | -15.4 | 7.8 | 10 | C |
| | 555 | 16.6 | 159 | J | 22.2 | 3 | 301 | 11.4 | -18.1 | 5.5 | 3 | C |
| | 555 | 12.1 | 174 | J | 22.2 | 1 | 300 | 10.9 | -18.5 | 4.3 | 3 | C |
| | 544 | 20.5 | 0 | C | 21.7 | -22 | 306 | 9.9 | -14.5 | -4.0 | 12 | C |
| | 502 | 20.5 | 0 | C | 18.8 | 40 | 197 | -5.4 | -0.8 | 5.0 | 17 | C |
| | 522 | 15.5 | 0 | C | 17.6 | 71 | 180 | -5.5 | 3.0 | 16.0 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 524 | 14.3 | 0 | C | 14.0 | 51 | 157 | -7.9 | 5.5 | 9.7 | 2 | C |
| 2 | 533 | 14.8 | 0 | C | 11.5 | 29 | 190 | -9.1 | -0.4 | 5.4 | 4 | C |
| 3 | 531 | 12.7 | 0 | C | 9.7 | 12 | 169 | -7.9 | 2.0 | 1.2 | 6 | C |
| 4 | 519 | 9.7 | 0 | C | 6.1 | 29 | 177 | -3.1 | 0.7 | 1.6 | 4 | C |
| 5 | 509 | 8.3 | 77 | J | 5.8 | 26 | 358 | 5.0 | 0.8 | 2.3 | 1 | J |
| 6 | 514 | 7.3 | 78 | J | 6.5 | 29 | 335 | 4.9 | -0.8 | 3.7 | 1 | J |
| 7 | 546 | 9.0 | 78 | J | 5.7 | -29 | 175 | -4.6 | -0.9 | -2.5 | 2 | J |
| 8 | 536 | 8.0 | 68 | J | 5.1 | 36 | 191 | -2.5 | 0.5 | 1.9 | 4 | J |
| 9 | 520 | 7.9 | 64 | J | 6.2 | 60 | 81 | 0.4 | 4.9 | 2.6 | 3 | J |
| 10 | 524 | 8.3 | 68 | J | 6.1 | 17 | 103 | -1.3 | 5.5 | -1.6 | 1 | J |
| 11 | 523 | 9.2 | 69 | J | 5.2 | 20 | 101 | -0.8 | 4.5 | -1.0 | 2 | J |
| 12 | 476 | 8.1 | 0 | C | 6.9 | -42 | 297 | 2.3 | -6.2 | -1.3 | 1 | C |
| 13 | 486 | 6.6 | 0 | C | 6.9 | -69 | 265 | -0.2 | -5.4 | -4.1 | 1 | C |
| 14 | 493 | 6.0 | 0 | C | 5.4 | -58 | 336 | 1.7 | -2.1 | -2.2 | 4 | C |
| 15 | 528 | 11.2 | 0 | C | 10.1 | 29 | 334 | 7.7 | -1.2 | 5.9 | 3 | C |
| 16 | 560 | 3.0 | 0 | C | 11.9 | 38 | 335 | 8.2 | -0.6 | 8.0 | 3 | C |
| 17 | 545 | 3.2 | 0 | C | 11.4 | -36 | 311 | 5.8 | -8.7 | -3.5 | 2 | C |
| 18 | 538 | 3.9 | 0 | C | 11.2 | 9 | 330 | 9.5 | -4.7 | 3.5 | 1 | C |
| 19 | 604 | 2.2 | 66 | J | 11.6 | -9 | 320 | 8.8 | -7.6 | 0.3 | 1 | J |
| 20 | 588 | 2.1 | 57 | J | 11.4 | -3 | 325 | 9.2 | -6.4 | 1.0 | 1 | J |
| 21 | 640 | 2.4 | 102 | J | 11.2 | 81 | 93 | -0.1 | 3.7 | 9.8 | 4 | J |
| 22 | 654 | 2.1 | 95 | J | 12.0 | 75 | 12 | 2.5 | 2.3 | 9.3 | 7 | J |
| 23 | 657 | 3.5 | 62 | J | 11.7 | 38 | 323 | 7.3 | -4.1 | 8.0 | 1 | J |
| 24 | 647 | 5.1 | 79 | J | 10.9 | 63 | 329 | 4.2 | -0.7 | 9.9 | 1 | J |

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| | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 647 | 3.0 | 104 | J | 11.5 | 63 | 349 | 5.1 | 1.1 | 10.1 | 1 | J |
| | 643 | 1.5 | 125 | J | 11.3 | 71 | 47 | 2.4 | 5.0 | 9.5 | 2 | J |
| | 670 | 2.6 | 99 | J | 11.3 | 66 | 103 | -1.0 | 7.1 | 8.6 | 2 | J |
| | 626 | 2.6 | 202 | L | 10.9 | 84 | 90 | 0.0 | 4.5 | 9.6 | 2 | J |
| | 620 | 3.0 | 122 | J | 9.8 | 13 | 288 | 1.7 | -4.4 | 3.2 | 8 | J |
| | 611 | 6.5 | 0 | C | 8.5 | -12 | 296 | 3.2 | -6.7 | 1.5 | 4 | C |
| | 610 | 6.1 | 0 | C | 10.2 | 33 | 314 | 5.8 | -2.7 | 7.7 | 1 | C |
| | 623 | 3.5 | 0 | C | 10.0 | 54 | 317 | 4.0 | 0.6 | 8.5 | 3 | C |
| | 636 | 2.1 | 97 | J | 9.8 | 72 | 342 | 2.9 | 4.2 | 8.4 | 1 | J |
| | 607 | 1.7 | 77 | J | 9.7 | 78 | 17 | 1.9 | 5.7 | 7.6 | 1 | J |
| | 596 | 1.7 | 77 | J | 9.8 | 78 | 25 | 1.8 | 5.9 | 7.5 | 1 | J |
| | 565 | 1.9 | 0 | C | 10.5 | 51 | 313 | 4.4 | 0.4 | 9.4 | 1 | C |
| | 555 | 0.8 | 78 | L | 9.7 | 50 | 344 | 5.4 | 2.2 | 6.5 | 3 | J |
| | 542 | 0.9 | 109 | L | 9.7 | 36 | 313 | 5.2 | -2.1 | 7.6 | 2 | J |
| | 533 | 0.4 | 205 | L | 8.9 | 24 | 301 | 4.1 | -4.5 | 6.3 | 1 | J |
| | 498 | 0.4 | 128 | L | 8.9 | 23 | 307 | 4.8 | -4.4 | 5.7 | 2 | J |
| | 463 | 0.5 | 60 | L | 8.8 | 8 | 313 | 5.9 | -5.5 | 3.5 | 0 | J |
| | 458 | 0.5 | 57 | L | 8.8 | 12 | 319 | 6.3 | -4.6 | 3.4 | 2 | J |
| | 452 | 0.7 | 86 | L | 8.6 | 12 | 328 | 6.9 | -3.7 | 2.8 | 2 | J |
| | 415 | 0.5 | 57 | L | 8.6 | -2 | 343 | 8.2 | -2.5 | 0.3 | 1 | J |
| | 425 | 0.5 | 64 | L | 8.6 | -4 | 332 | 7.3 | -3.9 | 0.2 | 2 | J |
| | 436 | 0.4 | 64 | L | 8.6 | 2 | 328 | 7.0 | -4.3 | 1.1 | 2 | J |
| | 240 | 3.3 | 0 | C | 8.7 | 3 | 332 | 7.3 | -3.8 | 1.1 | 2 | C |
| | 428 | 0.5 | 91 | L | 8.4 | 12 | 336 | 7.0 | -2.8 | 2.2 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 424 | 0.5 | 77 | L | 8.4 | 5 | 328 | 7.0 | -4.2 | 1.6 | 1 | J |
| 2 | 432 | 1.0 | 119 | L | 8.3 | -13 | 325 | 6.5 | -4.9 | -0.7 | 1 | J |
| 3 | 452 | 1.3 | 25 | J | 8.3 | -10 | 318 | 6.1 | -5.7 | 0.1 | 1 | J |
| 4 | 448 | 0.9 | 42 | L | 8.4 | -14 | 318 | 6.0 | -5.8 | -0.2 | 1 | J |
| 5 | 423 | 2.6 | 0 | C | 10.1 | -24 | 307 | 5.4 | -8.3 | -1.1 | 1 | C |
| 6 | 454 | 2.5 | 0 | C | 11.1 | -27 | 304 | 5.5 | -9.4 | -1.1 | 2 | C |
| 7 | 425 | 3.2 | 0 | C | 16.2 | 1 | 313 | 10.3 | -9.8 | 5.4 | 6 | C |
| 8 | 480 | 3.5 | 0 | C | 19.8 | -7 | 306 | 11.3 | -14.8 | 5.9 | 1 | C |
| 9 | 575 | 8.0 | 0 | C | 17.2 | -57 | 275 | 0.8 | -14.4 | -6.6 | 6 | C |
| 10 | 575 | 8.0 | 0 | C | 18.3 | 14 | 287 | 5.1 | -11.6 | 12.7 | 3 | C |
| 11 | 554 | 5.5 | 0 | C | 18.2 | 26 | 286 | 4.5 | -8.7 | 15.3 | 1 | C |
| 12 | 580 | 9.5 | 0 | C | 16.8 | 48 | 287 | 3.0 | -2.2 | 14.8 | 6 | C |
| 13 | 585 | 12.5 | 138 | J | 14.6 | 31 | 300 | 6.0 | -5.1 | 11.6 | 4 | J |
| 14 | 567 | 14.7 | 0 | C | 15.4 | 6 | 300 | 6.8 | -9.4 | 7.0 | 7 | C |
| 15 | 556 | 14.4 | 0 | C | 17.0 | 49 | 286 | 3.1 | -3.8 | 16.1 | 2 | C |
| 16 | 562 | 13.6 | 0 | C | 15.1 | 81 | 123 | -1.3 | 7.7 | 12.4 | 3 | C |
| 17 | 537 | 13.7 | 0 | C | 14.4 | 55 | 302 | 3.9 | -2.0 | 12.4 | 5 | C |
| 18 | 523 | 9.7 | 0 | C | 12.5 | 49 | 298 | 3.6 | -3.6 | 10.3 | 4 | C |
| 19 | 533 | 10.0 | 0 | C | 10.4 | 70 | 7 | 3.5 | 3.0 | 9.1 | 2 | C |
| 20 | 521 | 9.3 | 0 | C | 8.7 | 24 | 40 | 5.9 | 5.6 | 2.3 | 2 | C |
| 21 | 543 | 12.3 | 0 | C | 4.8 | 36 | 330 | 2.0 | -0.8 | 1.8 | 4 | J |
| 22 | 529 | 10.6 | 0 | C | 6.2 | 28 | 330 | 4.7 | -2.1 | 3.3 | 1 | J |
| 23 | 516 | 8.6 | 0 | C | 5.2 | 10 | 358 | 3.5 | -0.0 | 0.6 | 4 | J |
| 24 | 500 | 7.3 | 0 | C | 6.9 | -11 | 31 | 5.5 | 3.0 | -1.8 | 3 | J |

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| | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 492 | 6.2 | 0 | C | 7.2 | 1 | 338 | 6.7 | -2.6 | 0.7 | 1 | J |
| | 511 | 3.7 | 127 | J | 8.4 | 25 | 320 | 5.7 | -3.9 | 4.5 | 2 | J |
| | 383 | 4.9 | 0 | C | 8.2 | -1 | 328 | 6.9 | -4.2 | 1.0 | 1 | J |
| | 582 | 1.2 | 238 | J | 8.2 | -6 | 326 | 6.8 | -4.6 | 0.6 | 1 | J |
| | 422 | 2.4 | 0 | C | 8.0 | -5 | 328 | 6.7 | -4.1 | 0.9 | 1 | J |
| | 498 | 1.4 | 194 | J | 7.9 | -3 | 323 | 6.1 | -4.4 | 1.6 | 2 | J |
| | 464 | 2.1 | 0 | C | 8.0 | 9 | 319 | 5.9 | -4.0 | 3.5 | 1 | J |
| | 460 | 2.0 | 0 | C | 7.8 | 2 | 321 | 6.0 | -4.1 | 2.7 | 1 | J |
| | 436 | 1.8 | 0 | C | 8.3 | -11 | 339 | 7.4 | -3.3 | 0.2 | 2 | C |
| | 440 | 1.8 | 0 | C | 8.7 | -5 | 339 | 8.0 | -3.0 | 1.0 | 1 | C |
| | 444 | 1.9 | 0 | C | 8.6 | 11 | 340 | 8.0 | -1.5 | 2.9 | 0 | C |
| | 455 | 2.0 | 0 | C | 8.4 | 28 | 327 | 6.2 | -1.3 | 5.5 | 0 | C |
| | 447 | 2.1 | 0 | C | 8.7 | 33 | 326 | 6.0 | -1.0 | 6.1 | 1 | J |
| | 428 | 1.9 | 0 | C | 8.8 | 29 | 333 | 6.8 | -0.9 | 5.4 | 1 | C |
| | 414 | 1.7 | 0 | C | 9.1 | 29 | 326 | 6.6 | -1.9 | 5.9 | 1 | C |
| | 444 | 1.5 | 0 | C | 9.2 | 32 | 328 | 6.5 | -1.8 | 6.1 | 1 | C |
| | 458 | 1.6 | 0 | C | 9.1 | 32 | 322 | 6.0 | -2.7 | 6.2 | 1 | C |
| | 547 | 5.1 | 57 | J | 7.6 | 38 | 342 | 4.7 | -0.3 | 4.2 | 4 | J |
| | 536 | 6.2 | 57 | J | 6.9 | 38 | 344 | 5.2 | -0.3 | 4.5 | 0 | J |
| | 513 | 5.2 | 0 | C | 6.7 | 18 | 133 | -3.8 | 4.3 | 0.8 | 3 | C |
| | 508 | 8.4 | 104 | J | 6.7 | 26 | 54 | 3.5 | 5.3 | 1.9 | 1 | J |
| | 476 | 7.9 | 78 | J | 6.9 | 48 | 107 | -1.0 | 3.9 | 3.2 | 5 | J |
| | 459 | 8.1 | 86 | J | 7.2 | 34 | 129 | -3.4 | 4.8 | 2.9 | 3 | J |
| | 450 | 7.5 | 73 | J | 7.4 | 9 | 140 | -4.9 | 4.2 | 0.3 | 3 | J |

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OF POOR QUALITY

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OCT. 19, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 450 | 7.4 | 65 | J | 7.8 | 29 | 143 | -4.9 | 4.3 | 2.6 | 3 | J |
| 2 | 458 | 7.5 | 62 | J | 8.2 | 22 | 125 | -4.1 | 6.4 | 1.5 | 3 | J |
| 3 | 458 | 8.2 | 67 | J | 8.4 | 15 | 138 | -5.2 | 5.1 | 0.6 | 4 | J |
| 4 | 446 | 7.2 | 57 | J | 8.7 | 4 | 157 | -7.8 | 3.3 | -0.5 | 2 | J |
| 5 | 478 | 8.1 | 54 | J | 10.3 | -48 | 175 | -6.4 | -2.1 | -6.8 | 3 | J |
| 6 | 499 | 4.8 | 75 | J | 10.6 | -14 | 146 | -8.0 | 3.9 | -4.5 | 3 | J |
| 7 | 518 | 4.5 | 69 | J | 9.7 | -1 | 149 | -7.6 | 4.0 | -2.3 | 4 | J |
| 8 | 529 | 4.9 | 133 | J | 8.7 | -22 | 163 | -7.0 | 0.4 | -3.6 | 4 | J |
| 9 | 545 | 5.3 | 208 | J | 8.7 | -10 | 158 | -6.8 | 1.7 | -2.6 | 4 | J |
| 10 | 553 | 5.1 | 185 | J | 9.1 | -21 | 172 | -7.3 | -0.7 | -2.9 | 4 | J |
| 11 | 624 | 5.2 | 322 | J | 9.9 | -73 | 220 | -1.7 | -5.2 | -5.4 | 6 | J |
| 12 | 672 | 5.2 | 263 | J | 9.1 | -7 | 298 | 3.6 | -6.3 | 2.9 | 5 | J |
| 13 | 636 | 5.7 | 265 | J | 9.3 | -86 | 331 | 0.4 | -3.3 | -5.1 | 7 | J |
| 14 | 599 | 13.2 | 113 | J | 6.8 | 43 | 153 | -4.3 | 4.1 | 2.9 | 1 | J |
| 15 | 594 | 11.1 | 103 | J | 7.0 | 10 | 149 | -5.4 | 3.4 | -0.5 | 3 | J |
| 16 | 571 | 11.6 | 0 | C | 9.8 | 28 | 146 | -6.9 | 6.0 | 2.2 | 3 | J |
| 17 | 568 | 9.0 | 71 | J | 9.5 | 23 | 173 | -6.2 | 1.7 | 2.2 | 7 | J |
| 18 | 553 | 8.6 | 79 | J | 10.4 | 3 | 153 | -9.3 | 4.7 | -0.9 | 1 | J |
| 19 | 561 | 8.3 | 69 | J | 10.3 | 7 | 148 | -8.3 | 5.3 | -0.2 | 3 | J |
| 20 | 557 | 6.1 | 81 | J | 10.3 | -10 | 143 | -7.5 | 5.2 | -2.9 | 4 | J |
| 21 | 559 | 4.5 | 82 | J | 10.0 | 3 | 135 | -7.1 | 7.0 | -0.9 | 1 | J |
| 22 | 571 | 5.7 | 0 | C | 8.8 | -17 | 135 | -5.9 | 5.4 | -3.5 | 1 | J |
| 23 | 582 | 3.2 | 134 | J | 9.1 | -9 | 140 | -6.6 | 5.2 | -2.3 | 3 | J |
| 24 | 611 | 2.6 | 148 | J | 8.5 | -13 | 149 | -6.5 | 3.6 | -2.4 | 3 | J |

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OCT. 20, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 629 | 2.5 | 174 | J | 7.7 | -30 | 181 | -5.9 | -0.8 | -3.3 | 4 | J |
| 2 | 716 | 2.0 | 275 | J | 6.8 | -50 | 236 | -2.4 | -4.6 | -4.1 | 2 | J |
| 3 | 593 | 1.5 | 122 | J | 6.6 | -32 | 234 | -3.0 | -4.8 | -2.0 | 3 | J |
| 4 | 658 | 2.3 | 0 | C | 6.0 | -36 | 247 | -1.6 | -4.5 | -1.6 | 3 | J |
| 5 | 662 | 2.0 | 0 | C | 5.8 | -74 | 218 | -1.1 | -2.6 | -4.2 | 3 | J |
| 6 | 656 | 1.9 | 0 | C | 6.5 | -60 | 223 | -2.3 | -4.2 | -4.0 | 1 | C |
| 7 | 659 | 1.7 | 176 | J | 6.1 | -55 | 191 | -3.3 | -2.8 | -4.0 | 2 | J |
| 8 | 613 | 2.0 | 431 | L | 6.1 | -55 | 212 | -2.5 | -3.4 | -2.9 | 3 | J |
| 9 | 710 | 2.1 | 163 | J | 6.8 | -20 | 315 | 3.8 | -4.3 | 0.3 | 4 | J |
| 10 | 655 | 1.7 | 226 | J | 6.5 | -80 | 153 | -0.8 | -2.5 | -4.6 | 4 | J |
| 11 | 613 | 1.8 | 251 | J | 6.5 | -81 | 127 | -0.6 | -2.6 | -5.4 | 2 | J |
| 12 | 576 | 3.3 | 159 | J | 6.7 | -76 | 217 | -1.2 | -3.9 | -4.5 | 3 | J |
| 13 | 561 | 2.0 | 132 | J | 6.3 | -82 | 218 | -0.5 | -2.5 | -3.5 | 4 | J |
| 14 | 698 | 9.3 | 0 | C | 16.2 | -64 | 4 | 6.1 | -5.8 | -11.4 | 7 | C |
| 15 | 656 | 7.6 | 264 | J | 18.7 | -62 | 257 | -2.0 | -14.9 | -10.8 | 3 | J |
| 16 | 676 | 11.9 | 0 | C | 13.8 | -50 | 273 | 0.3 | -10.3 | -5.0 | 7 | C |
| 17 | 666 | 12.6 | 0 | C | 14.1 | -79 | 276 | 0.3 | -7.0 | -11.4 | 3 | C |
| 18 | 655 | 13.5 | 0 | C | 11.7 | -82 | 312 | 1.0 | -4.4 | -9.9 | 4 | J |
| 19 | | | | | 13.2 | -71 | 22 | 3.8 | -1.6 | -11.9 | 4 | J |
| 20 | 584 | 14.3 | 0 | C | 15.3 | 13 | 230 | -7.1 | -7.7 | 4.3 | 10 | J |
| 21 | 584 | 14.3 | 0 | C | 15.1 | 31 | 214 | -10.6 | -5.5 | 8.9 | 2 | J |
| 22 | 605 | 16.5 | 0 | C | 12.0 | 86 | 281 | 0.1 | 0.7 | 6.6 | 9 | C |
| 23 | 608 | 14.7 | 0 | C | 10.0 | 11 | 57 | 2.1 | 3.4 | 0.2 | 9 | C |
| 24 | 574 | 14.0 | 0 | C | 9.1 | -42 | 235 | -2.0 | -3.4 | -2.7 | 7 | C |

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OCT. 21, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 596 | 14.0 | 0 | C | 8.5 | -77 | 228 | -0.5 | -1.1 | -3.0 | 7 | C |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 561 | 9.3 | 169 | J | 11.0 | -9 | 225 | -9.0 | -4.5 | 0.1 | 4 | J |
| 6 | 561 | 10.6 | 257 | J | 10.9 | -4 | 196 | -10.2 | -3.0 | 0.5 | 2 | J |
| 7 | 548 | 9.8 | 193 | J | 9.8 | 0 | 208 | -8.4 | -4.0 | 2.0 | 2 | J |
| 8 | 551 | 9.5 | 179 | J | 9.4 | -23 | 185 | -8.0 | -2.3 | -2.6 | 4 | J |
| 9 | 550 | 12.2 | 119 | J | 7.4 | -38 | 66 | 2.0 | 1.8 | -5.5 | 4 | J |
| 10 | 521 | 12.7 | 107 | J | 6.8 | -49 | 133 | -2.8 | 0.0 | -5.5 | 3 | J |
| 11 | 496 | 12.0 | 0 | C | 7.0 | -38 | 165 | -5.1 | -1.1 | -4.2 | 1 | C |
| 12 | 524 | 10.7 | 81 | J | 7.1 | 55 | 95 | -0.3 | 5.9 | 2.5 | 3 | J |
| 13 | 517 | 10.0 | 69 | J | 7.0 | 51 | 93 | -0.2 | 5.6 | 2.1 | 3 | J |
| 14 | 518 | 9.9 | 121 | J | 6.7 | 33 | 97 | -0.4 | 4.0 | 0.3 | 5 | J |
| 15 | 508 | 9.9 | 65 | J | 6.8 | 4 | 87 | 0.3 | 5.3 | -2.2 | 4 | J |
| 16 | 530 | 9.3 | 63 | J | 6.7 | -18 | 75 | 1.5 | 4.5 | -4.0 | 3 | J |
| 17 | 490 | 9.6 | 0 | C | 7.0 | 22 | 64 | 2.6 | 5.8 | 0.3 | 2 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 455 | 9.0 | 0 | C | | | | | | | | |
| 21 | 455 | 9.0 | 0 | C | 6.5 | -9 | 46 | 4.2 | 4.1 | -1.8 | 2 | C |
| 22 | 455 | 9.1 | 0 | C | 7.2 | -39 | 341 | 4.8 | -2.4 | -3.8 | 3 | C |
| 23 | 454 | 9.5 | 0 | C | 7.6 | -36 | 28 | 5.2 | 2.0 | -4.6 | 2 | C |
| 24 | 445 | 9.4 | 0 | C | 6.6 | -27 | 76 | 1.0 | 3.6 | -2.7 | 4 | C |

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OCT. 22, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 437 | 6.6 | 0 | C | 7.0 | 45 | 130 | -3.0 | 4.3 | 3.9 | 2 | C |
| 2 | 439 | 5.3 | 0 | C | 7.2 | 54 | 156 | -3.7 | 2.8 | 5.0 | 2 | C |
| 3 | 392 | 5.2 | 0 | C | 8.0 | 42 | 163 | -5.7 | 3.1 | 4.7 | 0 | C |
| 4 | 443 | 4.4 | 0 | C | 7.2 | 42 | 154 | -4.8 | 3.6 | 3.8 | 1 | C |
| 5 | 455 | 4.7 | 47 | J | 6.5 | 36 | 126 | -3.1 | 5.3 | 2.0 | 0 | J |
| 6 | 470 | 6.2 | 58 | J | 5.9 | 30 | 130 | -3.2 | 4.6 | 1.0 | 1 | C |
| 7 | 522 | 17.4 | 0 | C | 12.7 | 52 | 101 | -1.4 | 10.5 | 5.1 | 4 | C |
| 8 | 519 | 16.9 | 145 | J | 14.9 | 49 | 110 | -3.2 | 12.9 | 5.0 | 4 | C |
| 9 | 566 | 16.5 | 141 | J | 16.0 | 16 | 60 | 7.2 | 13.1 | -2.9 | 4 | C |
| 10 | 584 | 13.1 | 170 | J | 17.7 | -4 | 47 | 11.7 | 10.0 | -7.8 | 3 | C |
| 11 | 589 | 13.7 | 122 | J | 18.7 | -3 | 45 | 13.0 | 10.3 | -7.7 | 3 | C |
| 12 | 586 | 21.6 | 0 | C | 17.3 | -27 | 39 | 11.8 | 4.1 | -11.7 | 2 | C |
| 13 | 573 | 22.0 | 0 | C | 17.2 | -35 | 42 | 10.4 | 3.1 | -13.1 | 2 | C |
| 14 | 529 | 19.6 | 59 | L | 18.7 | -45 | 36 | 10.5 | 0.4 | -15.1 | 3 | C |
| 15 | 497 | 13.9 | 0 | C | 20.0 | -49 | 26 | 11.7 | -1.5 | -15.9 | 3 | C |
| 16 | 501 | 10.9 | 0 | C | 20.1 | -78 | 360 | 4.3 | -7.7 | -17.8 | 2 | C |
| 17 | 490 | 6.3 | 0 | C | 19.3 | -79 | 331 | 3.1 | -8.2 | -17.1 | 1 | C |
| 18 | 481 | 4.6 | 0 | C | 17.6 | -75 | 295 | 1.9 | -9.0 | -15.1 | 1 | C |
| 19 | 466 | 5.3 | 0 | C | 16.7 | -75 | 290 | 1.5 | -8.1 | -14.4 | 1 | C |
| 20 | 464 | 8.2 | 0 | C | | | | | | | | |
| 21 | 464 | 8.2 | 0 | C | 12.5 | -77 | 280 | 0.5 | -4.9 | -11.3 | 1 | C |
| 22 | 469 | 7.6 | 0 | C | 11.6 | -62 | 278 | 0.7 | -6.6 | -8.7 | 3 | C |
| 23 | 476 | 7.5 | 0 | C | 10.8 | -54 | 151 | -5.3 | 1.6 | -8.9 | 2 | C |
| 24 | 473 | 7.7 | 0 | C | 10.9 | -53 | 154 | -5.7 | 1.3 | -8.9 | 2 | C |

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OCT. 23, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 8.2 | 0 | C | 10.0 | -10 | 150 | -7.9 | 4.3 | -2.4 | 3 | C |
| 2 | 468 | 7.7 | 0 | C | 10.1 | -6 | 157 | -8.2 | 3.2 | -1.6 | 4 | C |
| 3 | 471 | 8.5 | 0 | C | 10.9 | -17 | 139 | -7.0 | 5.2 | -4.4 | 4 | C |
| 4 | 479 | 7.8 | 0 | C | 10.6 | -21 | 157 | -8.6 | 2.3 | -4.5 | 3 | C |
| 5 | 479 | 7.8 | 0 | C | 9.5 | 53 | 159 | -4.1 | 3.6 | 4.8 | 6 | C |
| 6 | 464 | 7.6 | 0 | C | 9.1 | -3 | 143 | -7.0 | 4.6 | -2.5 | 2 | C |
| 7 | 456 | 7.7 | 0 | C | 8.8 | -9 | 116 | -3.4 | 5.7 | -4.3 | 4 | C |
| 8 | 462 | 9.0 | 0 | C | 10.4 | -27 | 111 | -3.1 | 4.9 | -7.8 | 3 | C |
| 9 | 463 | 8.5 | 0 | C | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 437 | 5.9 | 0 | C | | | | | | | | |
| 12 | 437 | 5.9 | 0 | C | 10.1 | 69 | 172 | -3.6 | 5.4 | 7.7 | 0 | C |
| 13 | 445 | 6.9 | 0 | C | 9.9 | 66 | 178 | -4.0 | 4.7 | 7.7 | 1 | C |
| 14 | 439 | 6.0 | 0 | C | 9.4 | 69 | 192 | -3.2 | 3.5 | 7.9 | 2 | C |
| 15 | 417 | 6.8 | 0 | C | 9.4 | -6 | 231 | -5.1 | -6.0 | 2.0 | 4 | C |
| 16 | 419 | 6.9 | 0 | C | 9.2 | -40 | 229 | -4.5 | -7.1 | -3.3 | 1 | C |
| 17 | 413 | 6.6 | 0 | C | 8.8 | -29 | 227 | -5.3 | -6.6 | -2.0 | 1 | C |
| 18 | 408 | 5.0 | 0 | C | 8.6 | -2 | 214 | -7.0 | -4.6 | 1.1 | 1 | C |
| 19 | 423 | 4.5 | 0 | C | 8.5 | -10 | 234 | -4.8 | -6.6 | 0.3 | 2 | C |
| 20 | 421 | 4.1 | 0 | C | 8.0 | -34 | 216 | -4.6 | -4.1 | -3.0 | 4 | C |
| 21 | 465 | 4.1 | 0 | C | 8.1 | -61 | 150 | -3.0 | 0.5 | -6.5 | 3 | C |
| 22 | 390 | 4.3 | 0 | C | 7.6 | 14 | 162 | -6.7 | 2.4 | 1.4 | 2 | C |
| 23 | 446 | 4.6 | 0 | C | 7.8 | 41 | 170 | -5.7 | 1.8 | 4.8 | 1 | C |
| 24 | 415 | 4.6 | 0 | C | 7.9 | 19 | 180 | -7.5 | 0.5 | 2.6 | 1 | C |

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OCT. 24, 1981

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 4.4 | 0 | C | 7.7 | 13 | 175 | -7.4 | 1.0 | 1.6 | 1 | C |
| 2 | 415 | 4.4 | 0 | C | 7.6 | 20 | 167 | -6.9 | 2.2 | 2.2 | 1 | C |
| 3 | 420 | 4.0 | 0 | C | 7.9 | 34 | 164 | -5.8 | 2.7 | 3.5 | 3 | C |
| 4 | 436 | 3.5 | 0 | C | 8.0 | 34 | 169 | -6.4 | 2.5 | 3.8 | 1 | C |
| 5 | 442 | 3.8 | 0 | C | 7.6 | 43 | 145 | -4.5 | 4.8 | 3.6 | 1 | C |
| 6 | 432 | 3.8 | 0 | C | 7.7 | 28 | 137 | -5.0 | 5.7 | 1.4 | 0 | C |
| 7 | 437 | 3.7 | 0 | C | 7.6 | 25 | 138 | -5.0 | 5.6 | 0.8 | 0 | C |
| 8 | 427 | 4.6 | 0 | C | | | | | | | | |
| 9 | 427 | 4.6 | 0 | C | 7.1 | 12 | 155 | -6.2 | 3.2 | -0.2 | 1 | C |
| 10 | 429 | 4.0 | 0 | C | 7.3 | 25 | 150 | -5.6 | 4.4 | 0.8 | 1 | C |
| 11 | 434 | 3.8 | 0 | C | 8.4 | 12 | 136 | -5.8 | 5.7 | -1.6 | 1 | C |
| 12 | 454 | 5.6 | 0 | C | 10.4 | -36 | 165 | -7.2 | -1.2 | -5.6 | 4 | C |
| 13 | 458 | 6.5 | 0 | C | 10.0 | -62 | 148 | -3.9 | -2.3 | -8.8 | 1 | C |
| 14 | 454 | 7.0 | 0 | C | 9.5 | -31 | 160 | -6.9 | 0.1 | -5.1 | 3 | C |
| 15 | 426 | 6.0 | 0 | C | 9.3 | -21 | 146 | -7.1 | 2.8 | -5.1 | 1 | C |
| 16 | 440 | 5.9 | 0 | C | 9.2 | -36 | 132 | -4.7 | 2.7 | -6.7 | 3 | C |
| 17 | 423 | 5.6 | 0 | C | 9.3 | -13 | 123 | -4.7 | 6.1 | -4.3 | 2 | C |
| 18 | 416 | 5.5 | 0 | C | 8.7 | -17 | 117 | -3.7 | 6.3 | -4.6 | 0 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 411 | 4.9 | 0 | C | | | | | | | | |
| 24 | 411 | 4.9 | 0 | C | 8.3 | -11 | 102 | -1.7 | 7.5 | -2.8 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 410 | 4.8 | 0 | C | 8.6 | 3 | 120 | -4.2 | 7.3 | -0.8 | 1 | C |
| 2 | 396 | 5.6 | 0 | C | 9.3 | -4 | 128 | -5.6 | 6.8 | -2.1 | 2 | C |
| 3 | 411 | 4.9 | 0 | C | 9.6 | -17 | 113 | -3.4 | 7.1 | -4.6 | 3 | C |
| 4 | 424 | 5.0 | 0 | C | 9.6 | -11 | 103 | -2.1 | 8.2 | -4.5 | 0 | C |
| 5 | 423 | 6.6 | 0 | C | 8.9 | -13 | 100 | -1.3 | 6.6 | -4.5 | 4 | C |
| 6 | 418 | 6.9 | 0 | C | 9.0 | -1 | 103 | -2.0 | 7.8 | -3.6 | 1 | C |
| 7 | 418 | 6.9 | 0 | C | 8.5 | -15 | 99 | -1.1 | 4.9 | -4.5 | 5 | C |
| 8 | 422 | 6.7 | 0 | C | 7.8 | 0 | 91 | -0.1 | 5.2 | -2.8 | 5 | C |
| 9 | 438 | 8.3 | 0 | C | 9.0 | 13 | 77 | 1.9 | 8.3 | -2.7 | 0 | C |
| 10 | 446 | 11.4 | 0 | C | 8.5 | 13 | 87 | 0.5 | 7.9 | -2.8 | 1 | C |
| 11 | 424 | 10.5 | 0 | C | 8.7 | 14 | 103 | -1.9 | 8.0 | -2.6 | 1 | C |
| 12 | 422 | 12.1 | 0 | C | | | | | | | | |
| 13 | 422 | 12.1 | 0 | C | 9.5 | 14 | 101 | -1.8 | 8.9 | -2.5 | 0 | C |
| 14 | 422 | 13.0 | 0 | C | 9.6 | 21 | 97 | -1.1 | 9.4 | -1.1 | 1 | C |
| 15 | 413 | 11.8 | 0 | C | 10.1 | 26 | 99 | -1.5 | 9.8 | 0.2 | 1 | C |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 408 | 13.5 | 0 | C | | | | | | | | |
| 21 | 408 | 13.5 | 0 | C | 12.0 | 56 | 199 | -6.2 | -0.4 | 10.2 | 1 | C |
| 22 | 386 | 10.3 | 0 | C | 12.2 | 56 | 202 | -6.3 | -0.9 | 10.4 | 0 | C |
| 23 | 377 | 7.3 | 0 | C | 11.7 | 52 | 208 | -6.3 | -1.9 | 9.5 | 1 | C |
| 24 | 385 | 7.9 | 0 | C | 10.9 | 49 | 203 | -6.6 | -1.5 | 8.6 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 9.9 | 0 | C | 10.5 | 44 | 215 | -6.2 | -3.0 | 7.9 | 0 | C |
| 2 | 386 | 10.6 | 0 | C | 10.3 | 41 | 209 | -6.8 | -2.2 | 7.4 | 1 | C |
| 3 | | | | | | | | | | | | |
| 4 | 370 | 13.8 | 0 | C | 9.9 | 49 | 205 | -5.6 | -0.4 | 7.6 | 3 | C |
| 5 | 373 | 12.7 | 0 | C | 9.9 | 47 | 204 | -5.9 | -0.1 | 7.5 | 2 | C |
| 6 | 376 | 13.3 | 0 | C | 10.2 | 28 | 260 | -1.4 | -5.5 | 7.0 | 5 | C |
| 7 | 379 | 16.6 | 0 | C | 8.9 | 14 | 277 | 1.0 | -6.3 | 5.3 | 3 | C |
| 8 | 396 | 16.1 | 0 | C | 9.2 | 13 | 275 | 0.3 | -2.2 | 2.0 | 8 | C |
| 9 | 439 | 21.7 | 0 | C | 9.8 | -13 | 125 | -5.3 | 5.5 | -5.7 | 1 | C |
| 10 | 448 | 24.4 | 0 | C | 11.1 | 44 | 150 | -6.8 | 7.4 | 4.4 | 2 | C |
| 11 | 445 | 30.8 | 0 | C | 9.7 | 58 | 202 | -4.5 | 2.5 | 7.5 | 3 | C |
| 12 | 443 | 24.0 | 0 | C | 9.3 | 52 | 210 | -4.5 | 1.2 | 7.1 | 3 | C |
| 13 | 436 | 20.3 | 0 | C | 9.8 | 35 | 266 | -0.4 | -3.5 | 7.5 | 5 | C |
| 14 | 415 | 19.3 | 0 | C | 10.8 | 7 | 292 | 3.7 | -7.3 | 5.2 | 4 | C |
| 15 | | | | | | | | | | | | |
| 16 | 372 | 17.9 | 0 | C | 9.5 | 6 | 319 | 6.7 | -5.0 | 3.1 | 3 | C |
| 17 | 371 | 20.6 | 0 | C | 9.0 | 10 | 317 | 6.4 | -5.1 | 3.5 | 1 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 414 | 12.9 | 0 | C | | | | | | | | |
| 22 | 414 | 12.9 | 0 | C | 8.3 | 2 | 326 | 6.5 | -4.3 | 1.0 | 2 | C |
| 23 | 415 | 12.6 | 0 | C | 8.7 | -13 | 315 | 5.8 | -6.0 | -1.1 | 2 | C |
| 24 | 429 | 11.9 | 0 | C | 8.3 | -15 | 318 | 5.8 | -5.5 | -1.2 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 436 | 10.7 | 0 | C | 8.7 | -11 | 322 | 6.6 | -5.3 | -0.7 | 2 | C |
| 2 | 442 | 10.8 | 0 | C | 8.5 | 5 | 335 | 7.4 | -3.3 | 1.4 | 2 | C |
| 3 | 435 | 10.2 | 0 | C | 8.8 | 8 | 321 | 5.9 | -4.4 | 2.2 | 4 | J |
| 4 | 435 | 10.0 | 0 | C | 8.7 | 13 | 319 | 6.2 | -4.6 | 3.4 | 2 | C |
| 5 | 435 | 9.6 | 0 | C | 8.4 | 3 | 335 | 6.8 | -2.8 | 1.5 | 4 | J |
| 6 | 416 | 7.7 | 42 | J | 7.5 | 4 | 0 | 6.9 | 0.2 | 0.4 | 3 | J |
| 7 | 430 | 11.2 | 0 | C | 7.2 | 20 | 26 | 6.0 | 3.7 | 0.9 | 1 | J |
| 8 | 427 | 10.4 | 0 | C | 8.7 | 1 | 342 | 7.9 | -2.3 | 1.3 | 2 | C |
| 9 | 437 | 10.1 | 0 | C | 8.7 | 0 | 340 | 8.1 | -2.5 | 1.5 | 1 | C |
| 10 | 439 | 9.5 | 0 | C | 8.7 | -6 | 322 | 6.7 | -4.9 | 1.9 | 1 | C |
| 11 | 433 | 9.7 | 0 | C | 8.4 | 9 | 316 | 5.8 | -4.0 | 4.0 | 2 | C |
| 12 | 439 | 10.3 | 0 | C | 8.0 | 12 | 327 | 5.4 | -2.3 | 3.0 | 4 | C |
| 13 | 425 | 9.2 | 0 | C | 8.5 | -3 | 325 | 6.9 | -4.3 | 2.0 | 1 | C |
| 14 | 441 | 9.6 | 0 | C | 8.1 | 8 | 332 | 6.4 | -2.5 | 2.4 | 3 | C |
| 15 | 452 | 10.9 | 0 | C | 7.5 | -20 | 2 | 4.9 | -0.6 | -1.7 | 4 | C |
| 16 | 449 | 11.5 | 0 | C | 7.5 | 0 | 328 | 5.7 | -3.2 | 1.4 | 2 | C |
| 17 | 448 | 11.7 | 0 | C | 7.4 | -36 | 351 | 4.5 | -1.8 | -2.9 | 4 | C |
| 18 | 447 | 11.8 | 0 | C | 7.6 | 6 | 333 | 5.4 | -2.5 | 1.4 | 4 | C |
| 19 | 457 | 11.1 | 129 | J | 8.5 | 39 | 310 | 4.0 | -3.5 | 6.1 | 2 | J |
| 20 | 455 | 10.5 | 116 | J | 8.7 | 30 | 307 | 4.1 | -4.5 | 4.9 | 4 | J |
| 21 | 452 | 10.8 | 103 | J | 9.7 | 5 | 305 | 4.7 | -6.5 | 1.8 | 5 | J |
| 22 | 449 | 11.2 | 87 | J | 10.2 | -21 | 326 | 6.0 | -4.4 | -2.2 | 6 | J |
| 23 | 442 | 11.6 | 97 | J | 11.0 | 30 | 315 | 6.4 | -5.6 | 6.0 | 3 | J |
| 24 | 445 | 14.0 | 0 | C | 11.2 | 57 | 127 | -3.6 | 6.1 | 8.5 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 455 | 8.2 | 69 | J | 7.1 | 5 | 12 | 4.1 | 0.9 | 0.2 | 6 | J |
| 2 | 466 | 9.5 | 0 | C | 7.1 | 51 | 303 | 1.8 | -1.9 | 4.5 | 4 | C |
| 3 | 471 | 9.1 | 68 | J | 6.9 | 65 | 312 | 1.2 | -0.4 | 4.1 | 5 | J |
| 4 | 451 | 9.3 | 91 | J | 6.8 | 1 | 332 | 4.1 | -2.1 | 0.7 | 5 | J |
| 5 | 452 | 8.7 | 73 | J | 7.4 | -31 | 311 | 3.7 | -5.2 | -1.7 | 3 | J |
| 6 | 453 | 9.6 | 0 | C | 7.0 | -12 | 312 | 2.7 | -3.2 | 0.4 | 5 | C |
| 7 | 462 | 9.3 | 0 | C | 6.7 | -25 | 307 | 2.2 | -3.4 | -0.3 | 5 | C |
| 8 | 462 | 9.0 | 0 | C | 7.1 | -10 | 310 | 4.1 | -4.8 | 1.3 | 2 | C |
| 9 | 450 | 8.8 | 0 | C | 7.1 | -8 | 305 | 3.5 | -4.7 | 1.7 | 2 | C |
| 10 | 460 | 8.8 | 0 | C | 7.5 | -32 | 300 | 2.8 | -5.8 | -0.5 | 4 | C |
| 11 | 466 | 8.3 | 0 | C | 8.2 | -14 | 306 | 3.5 | -4.8 | 1.2 | 5 | C |
| 12 | 473 | 7.5 | 0 | C | 7.8 | 58 | 308 | 2.4 | 0.6 | 6.9 | 2 | C |
| 13 | 473 | 7.9 | 0 | C | 7.3 | 15 | 323 | 4.3 | -2.1 | 2.9 | 4 | C |
| 14 | 473 | 7.5 | 0 | C | 6.9 | 4 | 316 | 3.8 | -3.1 | 2.0 | 4 | C |
| 15 | 463 | 6.8 | 80 | J | 6.8 | -4 | 332 | 4.8 | -2.5 | 0.7 | 4 | J |
| 16 | 469 | 6.7 | 73 | J | 6.7 | -20 | 297 | 2.8 | -5.9 | -0.0 | 2 | J |
| 17 | 473 | 6.9 | 0 | C | 7.0 | 31 | 299 | 2.6 | -3.4 | 4.6 | 3 | C |
| 18 | 464 | 6.9 | 0 | C | 7.1 | 2 | 318 | 4.8 | -4.1 | 1.4 | 2 | C |
| 19 | 468 | 6.1 | 95 | J | 6.8 | 1 | 314 | 4.2 | -4.2 | 1.1 | 3 | J |
| 20 | 474 | 6.1 | 100 | J | 6.6 | 28 | 323 | 3.6 | -2.2 | 2.9 | 4 | J |
| 21 | 493 | 5.7 | 97 | J | 6.6 | 22 | 290 | 1.8 | -4.6 | 2.9 | 3 | J |
| 22 | 513 | 5.9 | 78 | J | 6.7 | -7 | 273 | 0.3 | -5.2 | 0.1 | 4 | J |
| 23 | 481 | 5.2 | 58 | J | 6.7 | 51 | 306 | 2.4 | -2.6 | 5.4 | 2 | J |
| 24 | 472 | 5.2 | 70 | J | 6.5 | 18 | 301 | 1.9 | -3.0 | 1.6 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 386 | 8.1 | 63 | J | 6.5 | 39 | 313 | 3.1 | -2.7 | 4.1 | 3 | J |
| 2 | 408 | 8.1 | 37 | J | 6.4 | 39 | 326 | 3.0 | -1.5 | 3.3 | 4 | J |
| 3 | 401 | 7.8 | 38 | J | 6.5 | 18 | 287 | 1.7 | -5.1 | 3.1 | 2 | J |
| 4 | 396 | 8.3 | 34 | J | 6.6 | 19 | 273 | 0.3 | -5.2 | 3.7 | 1 | J |
| 5 | 381 | 9.5 | 0 | C | 6.9 | 14 | 269 | -0.1 | -5.6 | 3.6 | 1 | C |
| 6 | 393 | 10.4 | 31 | J | 6.9 | 26 | 270 | -0.0 | -4.3 | 4.9 | 2 | J |
| 7 | 375 | 10.0 | 0 | C | 6.7 | 5 | 275 | 0.5 | -5.5 | 3.2 | 2 | J |
| 8 | 369 | 10.3 | 0 | C | 6.8 | 5 | 291 | 2.1 | -4.5 | 3.0 | 3 | C |
| 9 | 364 | 10.6 | 0 | C | 6.9 | -6 | 315 | 4.5 | -4.3 | 1.6 | 2 | C |
| 10 | 363 | 10.7 | 0 | C | 6.9 | 27 | 289 | 2.0 | -3.4 | 5.6 | 0 | C |
| 11 | 375 | 10.9 | 38 | J | 6.2 | 5 | 278 | 0.6 | -3.3 | 2.4 | 5 | J |
| 12 | 368 | 10.6 | 37 | J | 6.1 | 8 | 309 | 2.7 | -2.6 | 2.2 | 4 | J |
| 13 | 382 | 10.6 | 33 | J | 6.6 | 49 | 272 | 0.1 | -1.2 | 5.7 | 3 | J |
| 14 | 368 | 11.8 | 0 | C | 7.0 | 10 | 306 | 3.4 | -3.8 | 3.0 | 3 | C |
| 15 | 380 | 9.0 | 43 | J | 5.5 | 0 | 313 | 3.5 | -3.4 | 1.5 | 2 | J |
| 16 | 394 | 10.0 | 54 | J | 4.5 | 21 | 238 | -1.8 | -2.2 | 2.3 | 3 | J |
| 17 | 407 | 8.5 | 46 | J | 3.6 | 9 | 297 | 1.6 | -2.7 | 1.5 | 1 | J |
| 18 | 379 | 10.1 | 35 | J | 5.7 | 41 | 50 | 2.7 | 4.1 | 2.7 | 1 | J |
| 19 | 376 | 10.2 | 34 | J | 5.8 | 47 | 37 | 3.1 | 3.2 | 3.5 | 1 | J |
| 20 | 376 | 10.2 | 29 | J | 5.6 | 52 | 42 | 2.5 | 3.0 | 3.9 | 1 | J |
| 21 | 378 | 11.6 | 46 | J | 7.4 | 16 | 47 | 4.3 | 4.8 | 1.1 | 4 | J |
| 22 | 377 | 12.0 | 49 | J | 7.4 | 60 | 337 | 3.1 | -0.6 | 6.0 | 3 | J |
| 23 | 375 | 11.6 | 54 | J | 5.2 | 14 | 309 | 2.9 | -3.4 | 1.6 | 3 | J |
| 24 | 392 | 11.5 | 53 | J | 6.4 | 39 | 251 | -1.3 | -3.4 | 3.7 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 342 | 10.3 | 49 | J | 8.4 | -6 | 345 | 8.0 | -2.2 | -0.6 | 1 | J |
| 2 | 364 | 10.8 | 33 | J | 7.7 | -17 | 308 | 4.4 | -5.9 | -1.2 | 2 | J |
| 3 | 340 | 9.5 | 20 | J | 7.7 | 10 | 336 | 6.8 | -2.7 | 2.0 | 1 | J |
| 4 | 343 | 10.8 | 28 | J | 8.2 | -20 | 307 | 3.7 | -5.4 | -0.8 | 5 | J |
| 5 | 346 | 12.6 | 0 | C | 8.1 | -12 | 315 | 5.4 | -5.6 | 0.2 | 2 | J |
| 6 | 362 | 12.2 | 21 | J | 8.2 | -7 | 296 | 3.1 | -6.2 | 1.6 | 4 | J |
| 7 | 341 | 11.1 | 27 | J | 8.0 | -12 | 313 | 5.3 | -5.9 | 0.9 | 1 | J |
| 8 | 340 | 10.6 | 23 | J | 8.1 | 5 | 315 | 5.5 | -4.6 | 3.1 | 2 | J |
| 9 | 356 | 10.5 | 29 | J | 8.4 | 15 | 288 | 2.4 | -5.5 | 5.5 | 2 | J |
| 10 | 354 | 11.0 | 26 | J | 8.6 | 8 | 284 | 2.0 | -6.5 | 5.1 | 1 | J |
| 11 | 340 | 13.5 | 0 | C | 8.9 | 1 | 305 | 5.0 | -6.0 | 3.6 | 1 | C |
| 12 | 335 | 14.1 | 0 | C | 9.0 | -1 | 312 | 5.9 | -5.8 | 3.1 | 1 | C |
| 13 | 324 | 11.4 | 27 | J | 8.8 | -1 | 335 | 7.9 | -3.3 | 1.6 | 2 | J |
| 14 | 322 | 11.8 | 28 | J | 9.0 | -4 | 341 | 8.4 | -2.9 | 0.7 | 1 | J |
| 15 | 321 | 13.5 | 0 | C | 8.9 | -7 | 320 | 6.6 | -5.5 | 1.3 | 1 | C |
| 16 | 323 | 13.3 | 0 | C | 8.7 | -27 | 311 | 5.0 | -6.8 | -1.6 | 1 | C |
| 17 | 317 | 13.5 | 0 | C | 8.8 | -5 | 330 | 6.9 | -3.9 | 0.6 | 3 | C |
| 18 | 306 | 13.8 | 0 | C | 9.2 | -29 | 353 | 8.0 | -2.1 | -4.1 | 0 | J |
| 19 | 313 | 11.6 | 30 | J | 8.7 | -21 | 11 | 7.3 | 0.8 | -3.1 | 3 | J |
| 20 | 312 | 10.8 | 28 | J | 8.4 | -23 | 19 | 6.5 | 1.7 | -3.3 | 4 | J |
| 21 | 317 | 11.6 | 29 | J | 8.7 | 1 | 326 | 6.7 | -4.5 | 0.8 | 3 | J |
| 22 | 312 | 11.3 | 35 | J | 9.0 | 6 | 333 | 7.6 | -3.8 | 1.4 | 3 | J |
| 23 | 320 | 13.6 | 0 | C | 10.2 | -15 | 321 | 7.1 | -6.0 | -1.7 | 4 | C |
| 24 | 316 | 14.4 | 0 | C | 10.1 | -19 | 328 | 7.5 | -5.1 | -2.6 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 14.4 | 0 | C | 11.1 | 70 | 290 | 1.2 | -1.7 | 10.1 | 4 | J |
| 2 | | | | | | | | | | | | |
| 3 | 470 | 12.8 | 124 | J | 11.3 | -11 | 291 | 3.6 | -9.5 | 0.3 | 5 | J |
| 4 | 487 | 12.8 | 147 | J | | | | | | | | |
| 5 | 505 | 13.8 | 154 | J | 7.2 | 70 | 141 | -1.7 | 3.3 | 5.1 | 3 | J |
| 6 | 476 | 11.7 | 184 | J | 7.0 | 1 | 326 | 5.1 | -3.1 | 1.4 | 3 | J |
| 7 | 469 | 13.4 | 232 | J | 6.7 | 10 | 347 | 6.2 | -0.8 | 1.7 | 1 | J |
| 8 | 493 | 12.6 | 159 | J | 6.0 | 1 | 52 | 2.5 | 2.9 | -1.5 | 4 | J |
| 9 | 484 | 12.5 | 154 | J | 5.7 | 3 | 49 | 2.6 | 2.7 | -1.3 | 4 | J |
| 10 | 480 | 10.8 | 152 | J | 5.9 | 3 | 339 | 2.4 | -0.7 | 0.6 | 5 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 447 | 11.7 | 126 | J | 8.1 | -5 | 310 | 4.5 | -5.0 | 2.1 | 4 | J |
| 14 | | | | | | | | | | | | |
| 15 | 416 | 8.2 | 43 | J | 8.7 | -10 | 331 | 7.1 | -4.2 | 0.4 | 3 | J |
| 16 | 445 | 9.8 | 0 | C | | | | | | | | |
| 17 | 445 | 9.8 | 0 | C | 7.5 | -19 | 323 | 5.1 | -4.3 | -0.8 | 3 | C |
| 18 | 485 | 7.9 | 70 | J | 7.1 | 11 | 300 | 1.7 | -2.6 | 1.4 | 6 | J |
| 19 | 487 | 8.4 | 78 | J | 7.2 | 3 | 287 | 1.6 | -5.1 | 1.5 | 5 | J |
| 20 | 463 | 7.9 | 73 | J | 7.2 | -22 | 10 | 5.0 | 0.5 | -2.2 | 5 | J |
| 21 | 465 | 8.2 | 87 | J | 7.4 | -48 | 28 | 4.3 | 1.4 | -5.6 | 2 | J |
| 22 | 470 | 8.8 | 0 | C | 7.0 | -8 | 309 | 2.8 | -3.5 | -0.1 | 5 | C |
| 23 | 486 | 8.8 | 70 | J | 7.5 | 52 | 279 | 0.6 | -3.3 | 5.8 | 3 | J |
| 24 | 478 | 8.7 | 77 | J | 7.5 | 61 | 309 | 2.0 | -1.7 | 6.2 | 3 | J |

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303

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 457 | 5.0 | 53 | J | 6.4 | 8 | 313 | 4.1 | -4.2 | 1.5 | 2 | C |
| 2 | 455 | 5.5 | 55 | J | 6.2 | -20 | 303 | 2.9 | -4.8 | -1.1 | 3 | J |
| 3 | 466 | 5.8 | 59 | J | 6.1 | -31 | 287 | 1.4 | -5.0 | -1.7 | 3 | J |
| 4 | 416 | 4.4 | 103 | L | 6.2 | -13 | 336 | 5.4 | -2.7 | -0.6 | 1 | J |
| 5 | 436 | 7.1 | 58 | J | 5.5 | -17 | 344 | 4.6 | -1.7 | -0.9 | 2 | J |
| 6 | 430 | 7.3 | 0 | C | 5.7 | -35 | 10 | 4.2 | -0.5 | -3.1 | 2 | C |
| 7 | 414 | 7.5 | 0 | C | 6.1 | -3 | 337 | 5.1 | -2.1 | 0.7 | 2 | C |
| 8 | 411 | 7.5 | 0 | C | 6.1 | 2 | 355 | 5.6 | -0.3 | 0.4 | 2 | C |
| 9 | 408 | 7.6 | 0 | C | 6.0 | -15 | 356 | 5.3 | -1.1 | -1.1 | 2 | C |
| 10 | | | | | | | | | | | | |
| 11 | 399 | 8.1 | 0 | C | 6.6 | -16 | 13 | 5.9 | 0.2 | -2.2 | 1 | C |
| 12 | | | | | 6.2 | -28 | 360 | 5.1 | -1.4 | -2.3 | 2 | J |
| 13 | 399 | 7.3 | 44 | J | 6.5 | -14 | 25 | 5.4 | 1.5 | -2.5 | 2 | J |
| 14 | 404 | 7.9 | 0 | C | 6.5 | -22 | 28 | 5.0 | 1.3 | -3.2 | 2 | C |
| 15 | | | | | | | | | | | | |
| 16 | 408 | 7.5 | 0 | C | 6.3 | 2 | 323 | 3.9 | -2.6 | 1.2 | 4 | C |
| 17 | 401 | 7.6 | 0 | C | 6.2 | 30 | 303 | 2.7 | -3.0 | 4.0 | 2 | C |
| 18 | | | | | 6.0 | 20 | 282 | 1.2 | -4.7 | 3.4 | 0 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 397 | 7.7 | 0 | C | 6.2 | 9 | 305 | 2.4 | -3.4 | 1.1 | 4 | C |
| 24 | 397 | 7.7 | 0 | C | 6.2 | -21 | 320 | 3.9 | -3.5 | -1.5 | 2 | C |

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305

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 388 | 12.1 | 53 | J | 6.1 | 20 | 263 | -0.7 | -5.1 | 2.8 | 2 | J |
| 2 | 370 | 14.5 | 0 | C | 5.9 | 10 | 336 | 5.2 | -2.1 | 1.4 | 2 | J |
| 3 | 368 | 12.0 | 54 | J | 6.4 | -37 | 351 | 4.7 | -1.5 | -3.3 | 2 | J |
| 4 | 374 | 11.4 | 57 | J | 6.9 | -8 | 282 | 0.8 | -3.8 | 0.5 | 6 | J |
| 5 | 370 | 10.5 | 33 | J | 6.4 | 33 | 41 | 2.8 | 3.1 | 1.5 | 5 | J |
| 6 | 384 | 13.2 | 0 | C | 8.0 | 45 | 207 | -4.3 | -0.2 | 5.3 | 4 | C |
| 7 | 419 | 9.4 | 66 | J | 7.4 | 5 | 237 | -3.9 | -5.1 | 3.1 | 2 | J |
| 8 | 392 | 11.2 | 0 | C | 7.7 | 2 | 296 | 3.2 | -5.7 | 3.3 | 2 | C |
| 9 | 382 | 9.8 | 61 | J | 8.2 | 4 | 311 | 5.1 | -4.9 | 3.4 | 2 | J |
| 10 | 378 | 10.0 | 55 | J | 8.5 | -34 | 345 | 6.6 | -3.9 | -3.1 | 2 | J |
| 11 | 392 | 12.4 | 0 | C | 8.8 | -33 | 331 | 6.5 | -5.5 | -2.3 | 0 | J |
| 12 | 386 | 12.2 | 0 | C | 8.7 | 9 | 324 | 6.7 | -3.5 | 3.5 | 2 | C |
| 13 | 381 | 11.8 | 0 | C | 8.3 | 9 | 317 | 5.2 | -3.8 | 3.3 | 4 | C |
| 14 | 383 | 11.9 | 0 | C | 8.2 | -16 | 324 | 6.2 | -4.9 | 0.0 | 1 | C |
| 15 | 383 | 12.1 | 0 | C | 8.2 | -10 | 326 | 6.3 | -4.5 | 0.6 | 2 | C |
| 16 | 372 | 10.0 | 32 | J | 8.3 | -18 | 353 | 7.6 | -1.8 | -2.0 | 2 | J |
| 17 | 373 | 11.3 | 0 | C | 8.3 | -21 | 26 | 6.1 | 2.0 | -3.4 | 3 | J |
| 18 | 368 | 9.9 | 28 | J | 8.5 | -20 | 340 | 7.1 | -3.2 | -2.0 | 3 | J |
| 19 | 369 | 9.5 | 26 | J | 8.6 | -11 | 326 | 6.9 | -4.9 | -0.6 | 1 | J |
| 20 | 370 | 9.7 | 32 | J | 8.0 | 13 | 323 | 6.0 | -4.1 | 2.5 | 2 | J |
| 21 | 365 | 9.8 | 34 | J | 8.1 | -16 | 329 | 6.6 | -4.2 | -1.6 | 1 | J |
| 22 | 369 | 10.3 | 35 | J | 8.1 | 9 | 293 | 2.8 | -6.4 | 2.0 | 3 | J |
| 23 | 355 | 10.1 | 52 | J | 8.0 | -1 | 330 | 6.8 | -3.9 | 0.3 | 1 | J |
| 24 | 350 | 10.6 | 61 | J | 8.4 | -5 | 331 | 7.2 | -4.1 | -0.2 | 1 | J |

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307

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 319 | 13.6 | 0 | C | 9.9 | -12 | 315 | 5.2 | -5.4 | -0.8 | 6 | C |
| 2 | 350 | 13.0 | 0 | C | 8.7 | -2 | 310 | 4.7 | -5.5 | 0.7 | 4 | C |
| 3 | 353 | 12.9 | 0 | C | 9.1 | -6 | 318 | 5.5 | -5.1 | 0.3 | 4 | C |
| 4 | 348 | 12.2 | 0 | C | 8.9 | -19 | 351 | 8.0 | -1.9 | -2.4 | 2 | C |
| 5 | 341 | 10.3 | 43 | J | 8.6 | -11 | 313 | 5.1 | -5.7 | 0.4 | 4 | J |
| 6 | 355 | 11.6 | 0 | C | 8.8 | -5 | 298 | 3.9 | -7.2 | 2.1 | 2 | C |
| 7 | 353 | 10.9 | 0 | C | 8.9 | -17 | 329 | 6.7 | -4.7 | -0.5 | 3 | C |
| 8 | 357 | 10.7 | 0 | C | 8.8 | -15 | 325 | 6.1 | -4.7 | 0.2 | 4 | C |
| 9 | 364 | 9.9 | 41 | J | 8.0 | 19 | 290 | 1.9 | -3.6 | 4.1 | 6 | J |
| 10 | 367 | 9.8 | 53 | J | 6.9 | -30 | 333 | 4.9 | -3.7 | -1.5 | 3 | J |
| 11 | 363 | 10.1 | 59 | J | 6.7 | -34 | 349 | 5.4 | -2.8 | -2.7 | 1 | J |
| 12 | 361 | 11.2 | 0 | C | 5.8 | -13 | 7 | 5.2 | -0.0 | -1.4 | 2 | C |
| 13 | 362 | 10.7 | 0 | C | 5.9 | 10 | 338 | 5.1 | -1.3 | 1.8 | 2 | C |
| 14 | 367 | 10.2 | 51 | J | 5.6 | 23 | 17 | 4.7 | 2.2 | 1.2 | 2 | J |
| 15 | 371 | 10.4 | 45 | J | 5.6 | 6 | 51 | 2.8 | 3.3 | -0.9 | 3 | J |
| 16 | 366 | 10.5 | 33 | J | 6.7 | 6 | 39 | 4.8 | 3.9 | -0.8 | 2 | J |
| 17 | 356 | 10.5 | 41 | J | 7.3 | 0 | 18 | 6.8 | 2.1 | -0.7 | 1 | J |
| 18 | 341 | 9.1 | 74 | J | 6.1 | -6 | 0 | 5.8 | -0.2 | -0.6 | 2 | J |
| 19 | 345 | 9.2 | 58 | J | 6.4 | -13 | 344 | 5.6 | -1.9 | -1.0 | 2 | J |
| 20 | 348 | 10.1 | 70 | J | 6.7 | -18 | 336 | 5.4 | -2.7 | -1.5 | 2 | J |
| 21 | 349 | 8.3 | 48 | J | 7.3 | -9 | 329 | 5.9 | -3.7 | -0.6 | 2 | J |
| 22 | 355 | 9.4 | 0 | C | 7.2 | -5 | 319 | 5.3 | -4.7 | -0.1 | 1 | J |
| 23 | 354 | 9.2 | 0 | C | 7.0 | 12 | 2 | 6.0 | 0.3 | 1.2 | 3 | C |
| 24 | 335 | 9.1 | 0 | C | 7.0 | 23 | 349 | 6.2 | -0.9 | 2.8 | 1 | C |

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OF POOR QUALITY

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308

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 349 | 9.2 | 0 | C | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | 8.3 | -24 | 298 | 3.3 | -6.8 | -1.0 | 3 | J |
| 6 | | | | | | | | | | | | |
| 7 | 328 | 9.1 | 0 | C | 8.8 | -3 | 317 | 5.1 | -6.4 | 2.5 | 1 | C |
| 8 | 328 | 9.1 | 0 | C | 9.0 | -1 | 290 | 3.0 | -7.4 | 3.6 | 1 | C |
| 9 | 324 | 8.6 | 0 | C | 9.0 | 19 | 323 | 6.5 | -3.0 | 4.8 | 3 | C |
| 10 | 320 | 8.9 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 318 | 14.7 | 0 | C | 7.8 | -23 | 346 | 6.3 | -2.3 | -2.2 | 2 | C |
| 18 | 318 | 14.7 | 0 | C | 7.4 | -29 | 310 | 3.4 | -4.7 | -1.8 | 4 | C |
| 19 | 332 | 15.9 | 0 | C | | | | | | | | |
| 20 | 364 | 21.3 | 0 | C | | | | | | | | |
| 21 | 364 | 21.3 | 0 | C | 3.8 | -42 | 48 | 1.8 | 1.6 | -2.6 | 2 | C |
| 22 | 369 | 22.1 | 0 | C | 3.0 | -52 | 18 | 1.7 | 0.3 | -2.3 | 1 | C |
| 23 | 364 | 26.2 | 0 | C | 3.7 | 38 | 267 | -0.1 | -2.0 | 1.9 | 2 | C |
| 24 | 360 | 23.8 | 0 | C | 2.8 | 33 | 109 | -0.6 | 2.0 | 1.1 | 2 | C |

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309

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 363 | 15.7 | 0 | C | 4.8 | 6 | 108 | -1.4 | 4.4 | -0.1 | 2 | C |
| 2 | 343 | 15.1 | 0 | C | 7.6 | -9 | 111 | -2.6 | 6.6 | -2.2 | 1 | C |
| 3 | 341 | 13.8 | 0 | C | 7.8 | -18 | 106 | -2.0 | 6.4 | -3.8 | 0 | C |
| 4 | | | | | | | | | | | | |
| 5 | 339 | 11.7 | 0 | C | 8.0 | -9 | 126 | -4.6 | 5.6 | -3.1 | 0 | C |
| 6 | 339 | 11.7 | 0 | C | 7.9 | -24 | 121 | -3.7 | 4.5 | -5.3 | 0 | C |
| 7 | | | | | | | | | | | | |
| 8 | 323 | 9.3 | 0 | C | 8.1 | -42 | 132 | -4.0 | 1.6 | -6.8 | 0 | C |
| 9 | 323 | 9.3 | 0 | C | 8.2 | -21 | 125 | -4.4 | 4.1 | -5.4 | 1 | C |
| 10 | 328 | 9.0 | 0 | C | 7.5 | -3 | 118 | -3.1 | 4.9 | -3.2 | 3 | C |
| 11 | 347 | 9.6 | 0 | C | | | | | | | | |
| 12 | 349 | 9.7 | 0 | C | 7.2 | 2 | 104 | -1.5 | 5.5 | -2.8 | 3 | C |
| 13 | 349 | 9.7 | 0 | C | 7.0 | -10 | 118 | -2.8 | 4.3 | -3.4 | 3 | C |
| 14 | 346 | 10.3 | 0 | C | 6.9 | -7 | 142 | -5.0 | 3.2 | -2.4 | 2 | C |
| 15 | 347 | 10.5 | 0 | C | 6.6 | -2 | 120 | -2.5 | 4.0 | -1.9 | 4 | C |
| 16 | 348 | 10.1 | 0 | C | 6.5 | -11 | 117 | -2.2 | 3.7 | -2.4 | 4 | C |
| 17 | 353 | 10.4 | 0 | C | 7.1 | -6 | 105 | -1.5 | 5.2 | -2.2 | 4 | C |
| 18 | 348 | 9.3 | 0 | C | 7.2 | 22 | 99 | -1.0 | 6.8 | 0.9 | 1 | C |
| 19 | 351 | 9.3 | 0 | C | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 347 | 11.0 | 0 | C | 6.4 | -10 | 110 | -1.9 | 5.0 | -1.7 | 3 | C |
| 22 | 347 | 11.0 | 0 | C | 6.7 | 46 | 159 | -4.1 | 2.1 | 4.3 | 2 | C |
| 23 | 352 | 11.9 | 0 | C | 7.4 | 67 | 179 | -2.5 | 0.7 | 6.1 | 2 | C |
| 24 | 349 | 13.6 | 0 | C | 7.7 | 53 | 140 | -3.2 | 3.2 | 5.2 | 3 | C |

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310

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 343 | 14.5 | 0 | C | 8.5 | -14 | 107 | -2.2 | 6.8 | -2.7 | 3 | C |
| 2 | 347 | 15.0 | 0 | C | 8.6 | -8 | 111 | -2.9 | 7.3 | -2.2 | 2 | C |
| 3 | 348 | 16.2 | 0 | C | 8.6 | 31 | 106 | -1.9 | 7.5 | 2.9 | 2 | C |
| 4 | 342 | 16.6 | 0 | C | 9.1 | 10 | 108 | -2.7 | 8.4 | -0.6 | 1 | C |
| 5 | 348 | 17.8 | 0 | C | 8.8 | 20 | 108 | -2.4 | 8.1 | 0.5 | 2 | C |
| 6 | 357 | 18.1 | 0 | C | 8.6 | 63 | 139 | -2.9 | 5.0 | 6.0 | 2 | C |
| 7 | 363 | 17.4 | 0 | C | 6.8 | 79 | 240 | -0.6 | 1.5 | 5.7 | 3 | C |
| 8 | 364 | 17.5 | 0 | C | 6.2 | 48 | 240 | -1.5 | -0.8 | 4.2 | 4 | C |
| 9 | 366 | 17.8 | 0 | C | 5.6 | -26 | 271 | 0.1 | -4.4 | 0.2 | 3 | C |
| 10 | 372 | 17.5 | 0 | C | 5.0 | -57 | 30 | 1.5 | -0.5 | -2.8 | 3 | C |
| 11 | 377 | 16.9 | 0 | C | 6.3 | 36 | 124 | -2.8 | 5.3 | 1.2 | 1 | C |
| 12 | 378 | 15.5 | 0 | C | 6.6 | 47 | 120 | -1.9 | 4.9 | 2.1 | 3 | C |
| 13 | 377 | 13.7 | 0 | C | 7.8 | 67 | 100 | -0.5 | 5.4 | 4.5 | 3 | C |
| 14 | 376 | 13.0 | 0 | C | 8.1 | 39 | 125 | -2.9 | 5.5 | 2.0 | 4 | C |
| 15 | 383 | 11.5 | 0 | C | 8.5 | 52 | 129 | -2.1 | 4.1 | 3.0 | 6 | C |
| 16 | 389 | 11.7 | 0 | C | 8.7 | 49 | 167 | -5.1 | 3.2 | 5.2 | 3 | C |
| 17 | 370 | 13.8 | 0 | C | 9.4 | 1 | 137 | -6.8 | 6.0 | -1.7 | 0 | C |
| 18 | 374 | 14.1 | 0 | C | 9.2 | -5 | 128 | -5.6 | 6.7 | -2.6 | 1 | C |
| 19 | 374 | 11.7 | 0 | C | 9.4 | 4 | 97 | -1.1 | 9.1 | -1.1 | 1 | C |
| 20 | 390 | 10.0 | 0 | C | 9.3 | 4 | 81 | 1.5 | 8.9 | -0.7 | 1 | C |
| 21 | 390 | 10.1 | 0 | C | 9.3 | -12 | 76 | 1.9 | 7.7 | -2.7 | 4 | C |
| 22 | 380 | 10.0 | 0 | C | 9.1 | -18 | 95 | -0.8 | 8.0 | -3.5 | 2 | C |
| 23 | 372 | 10.4 | 0 | C | 8.5 | -21 | 105 | -1.8 | 6.4 | -3.3 | 4 | C |
| 24 | 368 | 11.0 | 0 | C | 8.0 | -4 | 100 | -1.2 | 6.8 | -1.2 | 3 | C |

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311

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 386 | 12.5 | 0 | C | 9.5 | -31 | 90 | -0.0 | 7.1 | -5.5 | 3 | C |
| 2 | 394 | 13.8 | 0 | C | 10.9 | -25 | 72 | 2.9 | 8.3 | -5.8 | 2 | C |
| 3 | 382 | 13.7 | 0 | C | 10.3 | -32 | 113 | -3.2 | 6.3 | -6.4 | 3 | C |
| 4 | 378 | 13.3 | 0 | C | 9.8 | -22 | 113 | -3.4 | 7.1 | -5.4 | 2 | C |
| 5 | 368 | 12.8 | 0 | C | 9.5 | -28 | 109 | -2.6 | 5.9 | -6.5 | 2 | C |
| 6 | 360 | 11.7 | 0 | C | 9.6 | -36 | 122 | -3.8 | 3.9 | -7.2 | 3 | C |
| 7 | 355 | 11.6 | 0 | C | 9.1 | -21 | 114 | -3.1 | 5.2 | -5.4 | 4 | C |
| 8 | 350 | 11.1 | 0 | C | 9.0 | -40 | 88 | 0.2 | 3.6 | -8.2 | 0 | C |
| 9 | 352 | 10.7 | 0 | C | 9.5 | -29 | 81 | 1.2 | 5.0 | -7.6 | 2 | C |
| 10 | 356 | 10.9 | 0 | C | 9.5 | -40 | 92 | -0.3 | 3.3 | -8.6 | 2 | C |
| 11 | 354 | 10.2 | 0 | C | 9.6 | -27 | 90 | -0.1 | 5.2 | -7.8 | 1 | C |
| 12 | 351 | 10.7 | 0 | C | 9.4 | -20 | 85 | 0.8 | 6.2 | -7.0 | 1 | C |
| 13 | 350 | 12.8 | 0 | C | 9.2 | -30 | 103 | -1.7 | 4.7 | -7.5 | 2 | C |
| 14 | 345 | 13.5 | 0 | C | 9.3 | -3 | 109 | -2.9 | 7.6 | -4.1 | 2 | C |
| 15 | 330 | 14.1 | 0 | C | 8.1 | -1 | 109 | -2.5 | 6.6 | -2.9 | 2 | C |
| 16 | 321 | 14.3 | 0 | C | 8.1 | -19 | 107 | -2.1 | 5.6 | -4.6 | 3 | C |
| 17 | 320 | 14.1 | 0 | C | 7.5 | 2 | 99 | -1.0 | 5.7 | -1.5 | 4 | C |
| 18 | 316 | 13.4 | 0 | C | 8.2 | -23 | 101 | -1.4 | 6.2 | -4.7 | 2 | C |
| 19 | 307 | 13.2 | 0 | C | 7.8 | -9 | 118 | -3.6 | 6.4 | -2.5 | 0 | C |
| 20 | 305 | 13.7 | 0 | C | 7.5 | -14 | 110 | -2.4 | 6.3 | -2.8 | 1 | C |
| 21 | 306 | 12.8 | 0 | C | 7.5 | -22 | 127 | -3.7 | 4.6 | -3.0 | 3 | C |
| 22 | 308 | 11.3 | 0 | C | 7.5 | -13 | 104 | -1.8 | 6.8 | -2.4 | 1 | C |
| 23 | 310 | 10.9 | 0 | C | 7.0 | -21 | 113 | -2.3 | 5.2 | -2.8 | 3 | C |
| 24 | 311 | 10.8 | 0 | C | 6.5 | -13 | 154 | -5.5 | 2.6 | -1.6 | 1 | C |

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312

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 312 | 10.4 | 0 | C | 6.0 | 11 | 152 | -5.2 | 2.8 | 0.8 | 1 | C |
| 2 | 312 | 10.1 | 0 | C | 9.0 | -14 | 166 | -7.5 | 1.6 | -2.2 | 5 | C |
| 3 | 384 | 22.5 | 0 | C | 14.7 | -6 | 104 | -3.3 | 12.7 | -4.0 | 4 | C |
| 4 | 384 | 22.5 | 0 | C | 15.2 | -16 | 114 | -5.4 | 11.1 | -6.6 | 5 | C |
| 5 | 380 | 24.7 | 0 | C | 14.0 | -4 | 116 | -5.9 | 11.2 | -4.3 | 4 | C |
| 6 | 368 | 25.6 | 0 | C | 13.6 | 2 | 113 | -5.1 | 11.5 | -3.8 | 3 | C |
| 7 | 368 | 23.9 | 0 | C | 13.1 | -3 | 121 | -6.6 | 9.7 | -4.9 | 3 | C |
| 8 | 364 | 23.6 | 0 | C | 13.7 | -16 | 127 | -7.8 | 7.8 | -7.8 | 1 | C |
| 9 | 379 | 24.1 | 0 | C | 17.2 | -5 | 116 | -6.6 | 11.3 | -7.4 | 8 | C |
| 10 | 421 | 31.6 | 0 | C | 20.9 | 48 | 67 | 4.6 | 15.5 | 6.3 | 11 | C |
| 11 | 431 | 32.8 | 0 | C | 18.5 | 38 | 95 | -1.2 | 17.4 | 2.8 | 4 | C |
| 12 | 471 | 37.4 | 0 | C | 20.0 | 49 | 100 | -2.2 | 18.2 | 7.3 | 3 | C |
| 13 | 457 | 24.7 | 0 | C | 19.5 | 67 | 91 | -0.1 | 14.6 | 12.2 | 4 | C |
| 14 | 458 | 21.9 | 0 | C | 13.3 | 70 | 98 | -0.6 | 8.5 | 8.8 | 5 | C |
| 15 | 475 | 36.8 | 0 | C | 14.9 | 79 | 268 | -0.0 | 1.9 | 9.3 | 11 | C |
| 16 | 459 | 38.9 | 143 | J | 14.6 | 69 | 305 | 1.2 | 0.2 | 5.8 | 13 | C |
| 17 | 458 | 41.7 | 36 | J | 19.4 | -9 | 264 | -1.9 | -18.7 | 2.3 | 3 | C |
| 18 | 452 | 40.3 | 41 | J | 18.3 | 75 | 60 | 2.3 | 7.9 | 16.2 | 1 | C |
| 19 | | | | | | | | | | | | |
| 20 | 480 | 40.0 | 0 | C | 16.9 | 56 | 284 | 2.2 | -7.0 | 15.0 | 3 | C |
| 21 | 456 | 21.2 | 31 | J | 10.1 | 7 | 268 | -0.3 | -9.7 | 2.3 | 2 | C |
| 22 | 470 | 12.8 | 32 | J | 6.1 | 54 | 262 | -0.5 | -3.1 | 5.2 | 1 | J |
| 23 | 477 | 11.2 | 31 | J | 4.9 | 22 | 249 | -1.6 | -4.1 | 2.2 | 1 | J |
| 24 | 465 | 11.4 | 37 | J | 4.7 | 55 | 268 | -0.1 | -2.2 | 3.8 | 2 | J |

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313

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 456 | 11.8 | 0 | C | 4.8 | 56 | 299 | 1.3 | -1.8 | 4.1 | 1 | C |
| 2 | 455 | 8.5 | 40 | J | 5.2 | 38 | 0 | 3.9 | 0.4 | 3.0 | 1 | J |
| 3 | 458 | 7.4 | 32 | J | 5.3 | 27 | 0 | 4.7 | 0.4 | 2.4 | 1 | J |
| 4 | 441 | 8.0 | 0 | C | 5.1 | 44 | 345 | 3.5 | -0.1 | 3.6 | 1 | C |
| 5 | 429 | 7.0 | 0 | C | 5.4 | 20 | 339 | 4.6 | -1.2 | 2.3 | 1 | C |
| 6 | 442 | 6.7 | 54 | J | 5.6 | 18 | 355 | 5.2 | 0.2 | 1.8 | 1 | J |
| 7 | 425 | 6.5 | 58 | J | 6.4 | 24 | 354 | 5.8 | 0.5 | 2.6 | 0 | J |
| 8 | 417 | 4.5 | 59 | J | 6.8 | 12 | 359 | 6.5 | 0.5 | 1.3 | 2 | J |
| 9 | 421 | 3.9 | 86 | J | 6.9 | -2 | 1 | 6.9 | -0.0 | -0.3 | 0 | J |
| 10 | 422 | 3.6 | 88 | J | 5.9 | 6 | 1 | 5.7 | 0.4 | 0.5 | 1 | J |
| 11 | 419 | 3.4 | 68 | J | 6.8 | -2 | 357 | 6.5 | -0.4 | -0.0 | 2 | J |
| 12 | 392 | 6.5 | 0 | C | 6.7 | -7 | 353 | 6.5 | -1.1 | -0.3 | 1 | C |
| 13 | 388 | 6.5 | 0 | C | 7.0 | 0 | 347 | 6.8 | -1.4 | 0.7 | 0 | C |
| 14 | 385 | 6.5 | 0 | C | 7.1 | 2 | 342 | 6.7 | -1.9 | 1.2 | 0 | C |
| 15 | 384 | 6.2 | 0 | C | 7.4 | 4 | 339 | 6.8 | -2.2 | 1.5 | 1 | C |
| 16 | 380 | 6.6 | 0 | C | 7.6 | 4 | 338 | 7.0 | -2.6 | 1.5 | 0 | C |
| 17 | 378 | 6.6 | 0 | C | 8.1 | 6 | 336 | 7.2 | -2.9 | 1.8 | 1 | C |
| 18 | 392 | 5.6 | 40 | J | 7.7 | -6 | 321 | 5.8 | -4.8 | 0.3 | 2 | J |
| 19 | 386 | 4.6 | 34 | J | 7.6 | -11 | 323 | 5.8 | -4.6 | -0.6 | 2 | J |
| 20 | 391 | 4.9 | 31 | J | 7.7 | 27 | 325 | 5.3 | -3.2 | 3.8 | 2 | J |
| 21 | 372 | 5.1 | 33 | J | 8.3 | -7 | 330 | 6.7 | -4.0 | -0.5 | 3 | J |
| 22 | 370 | 4.4 | 31 | J | 7.4 | -6 | 352 | 7.2 | -1.1 | -0.7 | 1 | J |
| 23 | 376 | 5.1 | 0 | C | 7.5 | 9 | 336 | 6.7 | -2.8 | 1.4 | 0 | C |
| 24 | 365 | 5.7 | 0 | C | 6.9 | 12 | 326 | 5.5 | -3.6 | 1.7 | 1 | C |

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314

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 7.0 | 0 | C | 6.3 | 35 | 315 | 3.5 | -3.1 | 3.8 | 1 | C |
| 2 | 386 | 6.9 | 28 | J | 6.3 | 40 | 324 | 3.2 | -1.9 | 3.6 | 3 | J |
| 3 | 372 | 4.9 | 0 | C | 7.2 | 1 | 320 | 5.4 | -4.5 | 0.9 | 0 | C |
| 4 | 377 | 4.5 | 0 | C | | | | | | | | |
| 5 | 400 | 9.5 | 0 | C | 10.7 | -10 | 11 | 10.0 | 1.3 | -2.2 | 2 | C |
| 6 | 400 | 9.5 | 0 | C | 10.5 | -28 | 19 | 7.9 | 1.1 | -5.1 | 4 | C |
| 7 | 385 | 9.7 | 0 | C | 9.8 | 18 | 327 | 7.5 | -3.3 | 4.5 | 3 | C |
| 8 | 378 | 7.0 | 33 | J | 9.0 | -36 | 333 | 6.1 | -5.0 | -3.2 | 3 | J |
| 9 | 381 | 6.7 | 33 | J | 8.8 | -31 | 334 | 6.0 | -4.4 | -2.2 | 4 | J |
| 10 | 374 | 5.7 | 37 | J | 8.9 | -35 | 319 | 5.3 | -6.4 | -2.2 | 3 | J |
| 11 | 369 | 7.3 | 0 | C | 8.2 | -17 | 331 | 6.4 | -4.2 | -0.3 | 3 | C |
| 12 | 394 | 10.3 | 0 | C | 6.7 | 23 | 319 | 1.4 | -0.7 | 1.2 | 6 | C |
| 13 | 390 | 10.7 | 0 | C | 6.4 | 31 | 256 | -1.1 | -2.8 | 4.4 | 3 | C |
| 14 | 409 | 11.1 | 34 | J | 8.7 | 2 | 252 | -2.6 | -7.3 | 3.6 | 2 | J |
| 15 | 415 | 10.9 | 57 | J | 8.5 | -25 | 228 | -5.0 | -6.4 | -1.2 | 2 | J |
| 16 | 401 | 11.7 | 0 | C | 8.5 | -21 | 242 | -3.7 | -7.5 | -0.6 | 1 | C |
| 17 | 397 | 11.8 | 0 | C | 8.6 | -6 | 256 | -2.1 | -8.1 | 1.4 | 1 | C |
| 18 | 395 | 13.7 | 38 | J | 7.3 | 21 | 252 | -2.0 | -5.5 | 3.8 | 2 | J |
| 19 | 388 | 14.2 | 44 | J | 6.9 | -21 | 258 | -1.1 | -5.5 | -1.1 | 4 | J |
| 20 | | | | | 7.6 | -47 | 262 | -0.7 | -5.8 | -4.8 | 1 | J |
| 21 | 357 | 13.5 | 0 | C | 6.8 | 6 | 325 | 5.5 | -3.7 | 1.1 | 1 | C |
| 22 | 357 | 13.5 | 0 | C | 6.9 | 39 | 310 | 3.4 | -3.8 | 4.6 | 0 | C |
| 23 | 379 | 12.9 | 0 | C | 6.2 | -67 | 238 | -1.2 | -2.3 | -5.2 | 2 | C |
| 24 | 370 | 13.3 | 0 | C | 6.6 | 20 | 275 | 0.3 | -3.8 | 1.7 | 5 | C |

NOV. 11, 1981

315

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 19.4 | 0 | C | 5.4 | 48 | 250 | -1.2 | -2.9 | 4.1 | 2 | C |
| 2 | 333 | 24.8 | 0 | C | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 375 | 26.3 | 18 | J | 10.6 | -25 | 282 | 2.0 | -10.1 | -2.2 | 2 | J |
| 5 | 371 | 25.2 | 20 | J | 10.8 | -37 | 281 | 1.6 | -10.0 | -3.8 | 1 | J |
| 6 | | | | | | | | | | | | |
| 7 | 373 | 31.2 | 18 | J | 10.1 | -41 | 228 | -5.1 | -7.8 | -3.9 | 0 | J |
| 8 | 372 | 27.8 | 19 | J | 10.3 | -63 | 217 | -3.5 | -6.1 | -6.7 | 3 | J |
| 9 | 372 | 15.0 | 24 | J | 10.4 | 0 | 250 | -3.5 | -8.6 | 4.4 | 1 | J |
| 10 | 371 | 17.9 | 0 | C | 10.9 | -7 | 246 | -4.3 | -9.2 | 3.3 | 2 | C |
| 11 | 368 | 14.1 | 0 | C | 11.0 | 16 | 251 | -3.5 | -7.3 | 7.2 | 1 | C |
| 12 | 364 | 13.9 | 0 | C | 9.7 | 15 | 257 | -1.5 | -5.3 | 4.9 | 6 | C |
| 13 | 409 | 10.3 | 63 | J | 17.7 | -48 | 244 | -3.8 | -11.2 | -5.3 | 16 | J |
| 14 | 530 | 33.2 | 277 | J | 25.4 | -41 | 260 | -2.7 | -19.4 | -6.2 | 15 | J |
| 15 | 523 | 38.1 | 0 | C | 17.5 | 27 | 300 | 5.9 | -7.3 | 9.2 | 8 | C |
| 16 | 543 | 42.3 | 0 | C | 15.5 | 39 | 285 | 2.4 | -6.0 | 9.9 | 8 | C |
| 17 | | | | | | | | | | | | |
| 18 | 542 | 48.0 | 0 | C | 19.6 | -47 | 300 | 6.4 | -13.8 | -11.2 | 4 | C |
| 19 | 504 | 30.3 | 0 | C | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 462 | 23.1 | 164 | J | 12.6 | -49 | 294 | 3.1 | -7.8 | -8.0 | 6 | J |
| 22 | 550 | 15.2 | 0 | C | | | | | | | | |
| 23 | 550 | 15.2 | 0 | C | 12.6 | -67 | 200 | -2.4 | -1.3 | -5.9 | 10 | C |
| 24 | 594 | 9.5 | 307 | J | 17.8 | -30 | 286 | 3.8 | -13.9 | -7.1 | 7 | J |

NOV. 12, 1981 316

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 563 | 10.2 | 0 | C | 19.2 | -25 | 299 | 8.4 | -15.9 | -6.7 | 1 | J |
| 2 | 561 | 9.2 | 246 | J | 14.2 | -22 | 119 | -6.1 | 10.3 | -6.4 | 4 | J |
| 3 | 548 | 10.0 | 189 | J | 15.0 | -33 | 122 | -6.0 | 8.2 | -8.8 | 7 | J |
| 4 | 521 | 9.5 | 114 | J | 13.6 | -78 | 280 | 0.5 | -5.6 | -12.3 | 2 | J |
| 5 | | | | | 14.6 | -50 | 310 | 5.6 | -9.3 | -8.2 | 5 | J |
| 6 | | | | | 14.9 | -11 | 308 | 7.9 | -10.4 | 1.0 | 7 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 695 | 2.8 | 75 | J | 17.1 | -53 | 305 | 5.8 | -13.4 | -8.3 | 3 | J |
| 10 | 632 | 3.3 | 72 | J | 17.6 | -28 | 310 | 9.6 | -13.9 | -1.8 | 5 | J |
| 11 | 626 | 3.8 | 55 | J | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 512 | 3.4 | 0 | C | | | | | | | | |
| 23 | 512 | 3.4 | 0 | C | 15.6 | 28 | 331 | 12.0 | -6.2 | 7.6 | 1 | C |
| 24 | 522 | 2.5 | 0 | C | 14.5 | 28 | 328 | 10.8 | -6.3 | 7.2 | 1 | C |

NOV. 13, 1981 317

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 514 | 2.3 | 0 | C | 12.9 | 25 | 340 | 10.8 | -3.3 | 5.7 | 2 | C |
| 3 | 495 | 2.4 | 0 | C | 12.9 | 12 | 352 | 12.3 | -1.3 | 2.9 | 2 | C |
| 4 | 493 | 2.3 | 0 | C | 12.1 | 24 | 351 | 10.5 | -0.6 | 4.9 | 3 | C |
| 5 | 499 | 2.4 | 0 | C | 11.4 | 15 | 337 | 9.7 | -3.3 | 3.9 | 2 | C |
| 6 | | | | | | | | | | | | |
| 7 | 510 | 2.5 | 0 | C | 10.5 | 20 | 346 | 9.3 | -0.9 | 4.1 | 2 | C |
| 8 | 521 | 2.5 | 0 | C | 10.1 | 29 | 353 | 8.6 | 1.1 | 4.8 | 1 | C |
| 9 | | | | | | | | | | | | |
| 10 | 516 | 2.2 | 0 | C | 8.8 | 20 | 356 | 7.8 | 0.8 | 2.8 | 2 | C |
| 11 | 521 | 2.1 | 0 | C | 8.5 | 27 | 354 | 7.2 | 1.0 | 3.7 | 0 | C |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 566 | 1.9 | 0 | C | | | | | | | | |
| 15 | 566 | 1.9 | 0 | C | 7.8 | 49 | 18 | 4.8 | 3.5 | 4.8 | 1 | C |
| 16 | 582 | 2.0 | 0 | C | 7.8 | 40 | 10 | 5.3 | 2.3 | 4.0 | 3 | C |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 546 | 2.9 | 0 | C | | | | | | | | |
| 20 | 546 | 2.9 | 0 | C | 11.0 | 27 | 346 | 7.1 | -1.3 | 3.9 | 6 | C |
| 21 | 548 | 2.7 | 0 | C | 11.3 | 47 | 45 | 5.2 | 6.0 | 7.6 | 1 | C |
| 22 | | | | | | | | | | | | |
| 23 | 535 | 3.0 | 0 | C | 10.0 | 2 | 338 | 7.5 | -3.0 | 0.4 | 5 | C |
| 24 | | | | | | | | | | | | |

NOV. 14, 1981 318

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 526 | 3.7 | 0 | C | 10.3 | 17 | 344 | 7.6 | -2.1 | 2.6 | 5 | C |
| 2 | 499 | 3.5 | 0 | C | 8.9 | 4 | 30 | 6.6 | 3.8 | 0.1 | 6 | J |
| 3 | | | | | 9.1 | 32 | 354 | 5.6 | -0.0 | 3.5 | 6 | J |
| 4 | 490 | 3.7 | 0 | C | 8.8 | 15 | 341 | 6.6 | -1.8 | 2.4 | 5 | C |
| 5 | 491 | 4.0 | 0 | C | 8.5 | 53 | 357 | 4.0 | 1.2 | 5.1 | 5 | C |
| 6 | 510 | 5.1 | 0 | C | 7.8 | 70 | 66 | 0.7 | 3.1 | 4.1 | 6 | C |
| 7 | | | | | | | | | | | | |
| 8 | 517 | 8.4 | 0 | C | 9.1 | 30 | 350 | 7.4 | 0.6 | 4.6 | 3 | C |
| 9 | 520 | 10.1 | 0 | C | 9.1 | 26 | 0 | 8.0 | 1.7 | 3.4 | 2 | C |
| 10 | | | | | | | | | | | | |
| 11 | 526 | 8.9 | 0 | C | 10.0 | 32 | 68 | 3.1 | 9.4 | 1.2 | 1 | C |
| 12 | 526 | 8.9 | 0 | C | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 546 | 15.5 | 0 | C | 12.2 | -20 | 30 | 9.6 | 3.5 | -5.9 | 3 | J |
| 15 | 508 | 12.2 | 0 | C | 11.2 | -32 | 5 | 9.4 | -1.3 | -5.8 | 1 | C |
| 16 | 489 | 10.1 | 0 | C | 9.7 | -29 | 354 | 8.3 | -2.3 | -4.2 | 1 | C |
| 17 | 493 | 9.3 | 0 | C | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 535 | 5.0 | 72 | J | 10.7 | -41 | 325 | 6.1 | -4.8 | -6.1 | 4 | J |
| 22 | 539 | 6.1 | 104 | J | 10.1 | -31 | 316 | 6.2 | -6.3 | -4.8 | 1 | J |
| 23 | 483 | 5.8 | 0 | C | | | | | | | | |
| 24 | 483 | 5.8 | 0 | C | 11.0 | -42 | 314 | 5.4 | -6.0 | -6.7 | 3 | C |

NOV. 15, 1981 319

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 544 | 9.8 | 0 | C | 8.2 | -16 | 294 | 2.5 | -5.6 | -1.3 | 5 | C |
| 2 | | | | | | | | | | | | |
| 3 | 511 | 13.0 | 0 | C | 6.0 | 59 | 273 | 0.1 | -1.9 | 4.8 | 2 | C |
| 4 | 508 | 5.6 | 117 | J | 6.7 | 8 | 121 | -3.0 | 5.0 | -0.2 | 3 | J |
| 5 | 506 | 6.0 | 127 | J | 6.1 | 13 | 152 | -4.0 | 2.4 | 0.5 | 4 | J |
| 6 | 503 | 8.5 | 147 | J | 7.2 | 20 | 146 | -5.4 | 4.2 | 1.1 | 2 | J |
| 7 | 503 | 7.3 | 0 | C | 7.0 | 4 | 112 | -2.5 | 5.9 | -1.8 | 2 | J |
| 8 | 530 | 6.4 | 141 | J | 7.3 | 35 | 130 | -3.2 | 4.8 | 1.6 | 4 | J |
| 9 | 567 | 5.2 | 136 | J | 7.1 | 50 | 99 | -0.6 | 5.8 | 2.7 | 3 | J |
| 10 | 559 | 6.3 | 149 | J | 7.1 | 25 | 104 | -1.5 | 6.6 | -0.1 | 2 | J |
| 11 | 531 | 6.5 | 0 | C | 7.3 | 31 | 115 | -2.6 | 6.5 | 0.8 | 1 | C |
| 12 | 537 | 6.2 | 0 | C | 7.0 | 54 | 154 | -2.4 | 2.7 | 2.8 | 4 | C |
| 13 | | | | | | | | | | | | |
| 14 | 581 | 5.0 | 132 | J | 5.7 | 53 | 226 | -2.3 | -0.5 | 5.1 | 1 | J |
| 15 | 584 | 4.9 | 108 | J | 5.5 | 18 | 164 | -2.2 | 0.8 | 0.5 | 5 | J |
| 16 | 583 | 4.9 | 138 | J | 5.4 | -15 | 114 | -1.6 | 3.1 | -2.0 | 4 | J |
| 17 | 553 | 4.9 | 0 | C | 5.7 | 18 | 168 | -4.2 | 1.2 | 1.2 | 3 | C |
| 18 | | | | | | | | | | | | |
| 19 | 567 | 5.0 | 0 | C | 6.2 | 6 | 152 | -5.0 | 2.7 | 0.1 | 2 | C |
| 20 | 545 | 5.3 | 97 | J | 6.4 | 14 | 138 | -4.4 | 4.1 | 1.0 | 2 | J |
| 21 | 533 | 5.3 | 95 | J | 6.5 | 13 | 156 | -5.5 | 2.6 | 1.2 | 2 | J |
| 22 | 546 | 5.8 | 118 | J | 6.1 | 19 | 149 | -4.2 | 2.6 | 1.6 | 3 | J |
| 23 | 549 | 5.6 | 115 | J | 6.0 | 5 | 153 | -4.9 | 2.5 | 0.4 | 2 | J |
| 24 | 536 | 5.2 | 115 | J | 6.4 | 9 | 185 | -5.7 | -0.5 | 0.9 | 3 | J |

NOV. 16, 1981 320

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 577 | 4.1 | 128 | J | 6.2 | -9 | 196 | -5.5 | -1.6 | -0.8 | 2 | J |
| 2 | 530 | 5.7 | 0 | C | 6.5 | 10 | 167 | -5.4 | 1.3 | 0.8 | 3 | C |
| 3 | 536 | 5.5 | 0 | C | 6.4 | -25 | 130 | -3.1 | 3.3 | -2.7 | 3 | C |
| 4 | 530 | 5.0 | 140 | J | 6.0 | -19 | 163 | -4.0 | 0.9 | -1.6 | 4 | J |
| 5 | 507 | 4.6 | 44 | J | 6.1 | -11 | 181 | -5.7 | -0.4 | -1.0 | 2 | J |
| 6 | 517 | 5.0 | 78 | J | 6.0 | -28 | 171 | -4.6 | -0.1 | -2.6 | 3 | J |
| 7 | 523 | 5.3 | 97 | J | 6.0 | -27 | 166 | -4.2 | 0.2 | -2.5 | 3 | J |
| 8 | 507 | 5.0 | 65 | J | 5.9 | -21 | 202 | -4.6 | -2.5 | -1.0 | 2 | J |
| 9 | 501 | 6.0 | 64 | J | 5.9 | 13 | 202 | -5.1 | -1.3 | 2.0 | 2 | J |
| 10 | 517 | 6.1 | 85 | J | 5.8 | 52 | 178 | -3.1 | 1.8 | 3.5 | 3 | J |
| 11 | 504 | 5.6 | 53 | J | 5.8 | 31 | 162 | -4.0 | 2.3 | 1.7 | 3 | J |
| 12 | 519 | 5.7 | 72 | J | 6.3 | 17 | 112 | -2.1 | 5.4 | -0.7 | 2 | J |
| 13 | 495 | 5.5 | 45 | J | 6.3 | 7 | 135 | -4.0 | 3.9 | -1.0 | 3 | J |
| 14 | 500 | 5.5 | 50 | J | 6.9 | 7 | 136 | -4.5 | 4.3 | -0.9 | 3 | J |
| 15 | 505 | 5.5 | 52 | J | 7.0 | 22 | 122 | -3.3 | 5.8 | 0.6 | 2 | J |
| 16 | 487 | 5.3 | 63 | J | 7.0 | 24 | 133 | -4.2 | 5.2 | 1.3 | 1 | J |
| 17 | 470 | 6.1 | 0 | C | 7.9 | 19 | 136 | -5.3 | 5.6 | 1.3 | 1 | C |
| 18 | 481 | 7.7 | 0 | C | 7.3 | 1 | 135 | -4.7 | 4.6 | -0.8 | 3 | C |
| 19 | 491 | 8.2 | 76 | J | 7.1 | 37 | 111 | -1.9 | 5.4 | 3.2 | 3 | J |
| 20 | 485 | 7.7 | 0 | C | 7.7 | 42 | 129 | -3.5 | 4.8 | 4.6 | 2 | J |
| 21 | 493 | 8.0 | 0 | C | 7.9 | 16 | 147 | -5.8 | 4.0 | 1.7 | 2 | C |
| 22 | 681 | 12.2 | 0 | C | 18.9 | 32 | 109 | -4.8 | 14.4 | 8.6 | 5 | C |
| 23 | 727 | 12.3 | 0 | C | 16.8 | 53 | 84 | 0.6 | 6.8 | 8.3 | 12 | C |
| 24 | 802 | 15.1 | 0 | C | 17.5 | 23 | 287 | 4.2 | -13.6 | 6.8 | 6 | C |

NOV. 17, 1981 321

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 773 | 14.4 | 0 | C | 16.7 | -47 | 259 | -1.9 | -10.2 | -9.9 | 7 | C |
| 2 | 752 | 7.7 | 0 | C | 15.9 | 29 | 29 | 10.4 | 6.5 | 6.2 | 7 | C |
| 3 | 733 | 5.7 | 0 | C | 11.1 | 43 | 23 | 7.4 | 4.0 | 7.0 | 1 | C |
| 4 | 726 | 5.7 | 0 | C | 10.5 | 50 | 18 | 6.3 | 3.6 | 7.4 | 1 | C |
| 5 | 706 | 7.0 | 0 | C | 9.3 | 48 | 39 | 3.8 | 4.3 | 4.6 | 5 | C |
| 6 | 695 | 8.4 | 0 | C | 8.2 | 41 | 316 | 4.3 | -2.4 | 6.2 | 2 | C |
| 7 | 688 | 7.3 | 0 | C | 8.2 | 43 | 325 | 4.7 | -1.1 | 6.2 | 2 | C |
| 8 | 631 | 7.1 | 0 | C | | | | | | | | |
| 9 | 631 | 7.1 | 0 | C | 5.6 | 10 | 213 | -2.9 | -1.4 | 1.3 | 4 | C |
| 10 | 632 | 8.3 | 0 | C | 5.1 | 30 | 127 | -2.3 | 3.6 | 0.7 | 2 | C |
| 11 | 615 | 8.4 | 0 | C | 6.0 | 11 | 152 | -5.0 | 2.9 | -0.2 | 1 | C |
| 12 | 607 | 8.4 | 0 | C | 7.3 | -44 | 139 | -3.7 | 0.9 | -5.6 | 2 | C |
| 13 | 587 | 8.3 | 0 | C | 8.0 | -8 | 140 | -5.7 | 3.9 | -2.9 | 2 | C |
| 14 | 593 | 7.1 | 0 | C | 9.4 | -29 | 141 | -6.1 | 3.0 | -5.9 | 2 | C |
| 15 | 588 | 6.0 | 0 | C | 10.2 | -4 | 135 | -7.0 | 6.3 | -3.0 | 2 | C |
| 16 | 574 | 5.4 | 0 | C | 9.9 | -10 | 141 | -7.3 | 5.2 | -3.3 | 2 | C |
| 17 | | | | | | | | | | | | |
| 18 | 578 | 5.7 | 0 | C | 10.2 | -4 | 134 | -6.7 | 6.6 | -1.9 | 3 | C |
| 19 | | | | | | | | | | | | |
| 20 | 533 | 5.6 | 0 | C | 9.8 | -15 | 147 | -6.7 | 4.1 | -2.5 | 3 | C |
| 21 | 533 | 5.6 | 0 | C | 9.9 | 13 | 119 | -4.3 | 7.9 | 1.6 | 3 | C |
| 22 | | | | | | | | | | | | |
| 23 | 610 | 3.8 | 0 | C | 8.7 | 10 | 129 | -4.9 | 6.1 | 1.2 | 2 | C |
| 24 | | | | | | | | | | | | |

NOV. 18, 1981 322

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 643 | 3.2 | 0 | C | 8.2 | -2 | 158 | -6.5 | 2.6 | -0.3 | 3 | C |
| 2 | 505 | 3.5 | 0 | C | 8.2 | 5 | 150 | -6.9 | 4.0 | 0.3 | 1 | C |
| 3 | 504 | 3.4 | 0 | C | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 479 | 3.9 | 0 | C | 8.3 | -11 | 160 | -7.5 | 2.1 | -2.4 | 2 | C |
| 8 | 479 | 3.9 | 0 | C | 7.6 | -31 | 143 | -4.3 | 1.7 | -4.2 | 3 | C |
| 9 | | | | | | | | | | | | |
| 10 | 583 | 3.2 | 0 | C | 7.7 | -13 | 110 | -2.0 | 4.3 | -3.5 | 4 | C |
| 11 | 562 | 3.2 | 0 | C | 7.7 | -34 | 132 | -3.7 | 2.1 | -5.1 | 3 | C |
| 12 | 557 | 3.1 | 0 | C | 7.5 | -35 | 143 | -4.6 | 1.4 | -5.0 | 2 | C |
| 13 | 533 | 3.3 | 0 | C | 7.4 | -21 | 145 | -5.3 | 2.4 | -3.7 | 2 | C |
| 14 | 512 | 3.3 | 0 | C | 7.3 | -20 | 108 | -1.9 | 4.6 | -4.1 | 2 | C |
| 15 | 540 | 3.4 | 0 | C | 7.1 | -22 | 168 | -3.8 | 0.2 | -1.7 | 5 | C |
| 16 | 460 | 4.7 | 0 | C | 7.0 | -21 | 147 | -4.0 | 2.0 | -2.5 | 3 | C |
| 17 | 464 | 4.8 | 0 | C | 7.1 | -29 | 144 | -4.4 | 2.4 | -3.7 | 3 | C |
| 18 | 459 | 4.8 | 0 | C | 7.0 | -48 | 176 | -4.5 | -0.6 | -5.0 | 2 | C |
| 19 | 463 | 4.6 | 0 | C | 7.4 | -48 | 144 | -3.9 | 2.1 | -5.7 | 1 | C |
| 20 | 463 | 4.2 | 0 | C | 7.2 | -39 | 138 | -3.5 | 2.8 | -4.1 | 3 | C |
| 21 | 482 | 4.1 | 0 | C | 7.1 | -30 | 120 | -2.7 | 4.6 | -3.4 | 3 | C |
| 22 | 468 | 4.3 | 0 | C | 7.3 | -45 | 128 | -2.7 | 3.3 | -4.5 | 3 | C |
| 23 | 457 | 4.7 | 0 | C | 7.6 | -1 | 88 | 0.2 | 6.7 | -0.2 | 3 | C |
| 24 | 439 | 4.5 | 0 | C | 7.5 | -17 | 115 | -2.8 | 5.9 | -2.2 | 2 | C |

NOV. 19, 1981 323

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 426 | 4.7 | 0 | C | 7.3 | -38 | 133 | -3.7 | 3.8 | -4.4 | 2 | C |
| 2 | 448 | 4.3 | 0 | C | 6.6 | -44 | 116 | -1.6 | 3.0 | -3.8 | 3 | C |
| 3 | 463 | 4.1 | 0 | C | 6.4 | -64 | 129 | -1.6 | 1.3 | -5.4 | 2 | C |
| 4 | 466 | 4.1 | 0 | C | | | | | | | | |
| 5 | 431 | 4.0 | 0 | C | 5.6 | -14 | 142 | -3.9 | 2.7 | -2.0 | 2 | C |
| 6 | 431 | 4.0 | 0 | C | 5.3 | -8 | 110 | -1.7 | 4.4 | -2.1 | 1 | C |
| 7 | 440 | 4.3 | 0 | C | 5.1 | -29 | 150 | -3.1 | 1.0 | -2.4 | 3 | C |
| 8 | 424 | 5.1 | 0 | C | 5.2 | -22 | 133 | -2.8 | 2.1 | -2.7 | 2 | C |
| 9 | 423 | 5.5 | 0 | C | 5.1 | -23 | 145 | -2.8 | 1.2 | -2.1 | 3 | C |
| 10 | 421 | 5.5 | 0 | C | 5.6 | -1 | 111 | -1.8 | 4.1 | -2.1 | 2 | C |
| 11 | 417 | 5.8 | 0 | C | 5.7 | 16 | 113 | -2.0 | 4.8 | -0.7 | 2 | C |
| 12 | 415 | 5.9 | 0 | C | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 431 | 6.6 | 0 | C | 5.8 | -22 | 117 | -2.1 | 3.3 | -3.0 | 2 | C |
| 16 | 431 | 6.6 | 0 | C | 6.3 | -31 | 114 | -1.5 | 2.6 | -3.0 | 4 | C |
| 17 | 429 | 6.1 | 0 | C | 7.1 | 11 | 113 | -2.5 | 6.1 | -0.1 | 2 | C |
| 18 | 414 | 5.5 | 0 | C | 7.3 | -17 | 152 | -5.8 | 2.7 | -2.6 | 2 | C |
| 19 | 412 | 4.8 | 0 | C | 8.0 | -30 | 158 | -6.4 | 2.1 | -4.3 | 0 | C |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

ORIGINAL PAGE IS
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11/20/81 – 11/27/81

NOV. 20, 1981 324

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 505 | 4.4 | 0 | C | 11.2 | 15 | 110 | -2.5 | 7.0 | 1.6 | 7 | C |
| 2 | 508 | 3.5 | 0 | C | 11.5 | 42 | 100 | -1.4 | 8.8 | 7.1 | 2 | C |
| 3 | 511 | 3.5 | 0 | C | 11.4 | 28 | 98 | -1.3 | 9.8 | 3.8 | 4 | C |
| 4 | 507 | 2.8 | 0 | C | 11.7 | 35 | 112 | -3.6 | 9.7 | 5.0 | 2 | C |
| 5 | 532 | 3.1 | 0 | C | 11.2 | 33 | 112 | -3.4 | 9.3 | 3.7 | 3 | C |
| 6 | 529 | 3.6 | 0 | C | 12.0 | 34 | 123 | -5.3 | 9.8 | 4.0 | 2 | C |
| 7 | 500 | 3.4 | 0 | C | 12.5 | 9 | 115 | -5.0 | 11.0 | -1.9 | 2 | C |
| 8 | 493 | 3.5 | 0 | C | 11.9 | 0 | 125 | -6.7 | 8.9 | -3.6 | 2 | C |
| 9 | 499 | 3.6 | 0 | C | 11.7 | -11 | 132 | -7.7 | 6.8 | -5.5 | 1 | C |
| 10 | 494 | 4.1 | 0 | C | 11.0 | 2 | 128 | -6.4 | 7.7 | -3.2 | 2 | C |
| 11 | 480 | 4.8 | 0 | C | 10.5 | 0 | 121 | -5.2 | 7.9 | -3.6 | 2 | C |
| 12 | 487 | 5.9 | 0 | C | 9.6 | 12 | 126 | -5.3 | 7.4 | -1.3 | 2 | C |
| 13 | 459 | 6.7 | 0 | C | 9.6 | 7 | 134 | -6.5 | 6.8 | -1.6 | 1 | C |
| 14 | 448 | 6.7 | 0 | C | 9.4 | 2 | 129 | -5.8 | 7.0 | -2.3 | 1 | C |
| 15 | 432 | 6.9 | 0 | C | 9.1 | -3 | 127 | -5.4 | 6.7 | -2.8 | 0 | C |
| 16 | 438 | 6.6 | 0 | C | 8.9 | 11 | 124 | -4.9 | 7.4 | -0.3 | 1 | C |
| 17 | 452 | 9.3 | 0 | C | 8.7 | 1 | 123 | -4.7 | 7.0 | -1.5 | 1 | C |
| 18 | 462 | 14.4 | 0 | C | 7.5 | 34 | 100 | -0.8 | 4.8 | 2.2 | 4 | C |
| 19 | 453 | 14.9 | 0 | C | 7.6 | 36 | 83 | 0.5 | 4.0 | 2.3 | 5 | C |
| 20 | 450 | 14.8 | 0 | C | 6.8 | 5 | 112 | -2.1 | 5.2 | 0.1 | 2 | C |
| 21 | 442 | 11.7 | 0 | C | 7.4 | -2 | 74 | 2.0 | 7.1 | -0.5 | 1 | C |
| 22 | 442 | 11.7 | 0 | C | 7.2 | -28 | 9 | 5.4 | 0.8 | -3.0 | 3 | C |
| 23 | 465 | 13.5 | 0 | C | 7.3 | -14 | 67 | 2.7 | 6.3 | -1.8 | 1 | C |
| 24 | 449 | 14.6 | 0 | C | 7.2 | -3 | 56 | 3.9 | 5.8 | -0.4 | 1 | C |

NOV. 21, 1981 325

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 448 | 13.1 | 0 | C | 6.8 | 7 | 53 | 4.0 | 5.3 | 0.7 | 2 | C |
| 2 | 454 | 12.5 | 0 | C | 7.6 | 16 | 8 | 7.0 | 1.1 | 1.9 | 2 | C |
| 3 | 458 | 12.9 | 0 | C | 7.8 | 2 | 357 | 7.8 | -0.4 | 0.3 | 0 | C |
| 4 | 460 | 13.8 | 0 | C | 7.8 | -1 | 358 | 7.8 | -0.3 | -0.1 | 0 | C |
| 5 | 441 | 13.7 | 0 | C | 7.2 | 10 | 342 | 6.6 | -1.8 | 1.7 | 1 | C |
| 6 | 408 | 13.8 | 0 | C | 7.1 | 9 | 292 | 0.8 | -1.8 | 0.9 | 7 | C |
| 7 | 408 | 12.3 | 0 | C | 7.9 | -22 | 149 | -5.1 | 2.1 | -3.2 | 4 | C |
| 8 | 420 | 7.7 | 0 | C | 7.9 | -10 | 146 | -6.3 | 3.5 | -2.9 | 1 | C |
| 9 | 424 | 6.0 | 0 | C | 8.0 | -23 | 156 | -6.6 | 1.5 | -4.1 | 1 | C |
| 10 | 412 | 5.6 | 0 | C | 8.1 | -11 | 150 | -6.7 | 3.0 | -3.0 | 2 | C |
| 11 | 400 | 5.1 | 0 | C | 8.3 | -6 | 141 | -6.1 | 4.1 | -2.8 | 2 | C |
| 12 | 414 | 5.3 | 0 | C | 8.1 | -4 | 138 | -6.0 | 4.7 | -2.7 | 0 | C |
| 13 | 440 | 6.1 | 45 | J | 8.0 | -5 | 141 | -6.1 | 4.3 | -2.6 | 1 | C |
| 14 | 443 | 6.0 | 33 | J | 8.3 | 1 | 143 | -6.5 | 4.7 | -1.7 | 1 | C |
| 15 | 446 | 7.2 | 46 | J | 9.1 | -3 | 140 | -6.9 | 5.4 | -2.2 | 1 | C |
| 16 | 429 | 7.2 | 0 | C | 9.8 | 3 | 133 | -6.6 | 7.0 | -1.5 | 1 | C |
| 17 | 442 | 7.4 | 35 | J | 11.2 | -4 | 137 | -8.1 | 7.3 | -2.4 | 1 | C |
| 18 | 440 | 9.3 | 49 | J | 10.6 | -13 | 133 | -6.8 | 6.8 | -3.5 | 3 | C |
| 19 | 430 | 8.1 | 38 | J | 11.0 | -11 | 110 | -3.7 | 9.7 | -3.3 | 2 | C |
| 20 | 409 | 7.5 | 0 | C | 11.3 | -36 | 128 | -5.5 | 6.5 | -6.9 | 2 | C |
| 21 | 400 | 7.2 | 0 | C | 10.3 | -47 | 120 | -3.4 | 5.7 | -7.4 | 2 | C |
| 22 | 397 | 7.1 | 0 | C | 9.2 | -62 | 117 | -1.9 | 3.6 | -7.9 | 2 | C |
| 23 | 401 | 9.7 | 26 | J | 7.2 | -6 | 153 | -5.8 | 2.9 | -0.7 | 2 | J |
| 24 | 400 | 7.3 | 27 | J | 6.3 | -11 | 155 | -5.0 | 2.3 | -1.1 | 2 | J |

NOV. 22, 1981 326

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 8.5 | 25 | J | 6.9 | -22 | 134 | -4.1 | 4.1 | -2.5 | 2 | J |
| 2 | 389 | 8.2 | 25 | J | 5.9 | -26 | 137 | -3.5 | 3.1 | -2.5 | 2 | J |
| 3 | 399 | 5.9 | 34 | J | 6.4 | -36 | 129 | -3.1 | 3.4 | -4.0 | 2 | J |
| 4 | 408 | 4.9 | 22 | J | 6.3 | -35 | 130 | -3.2 | 3.2 | -4.0 | 1 | J |
| 5 | 384 | 4.6 | 0 | C | 6.6 | -30 | 116 | -2.4 | 4.2 | -4.3 | 1 | C |
| 6 | 391 | 4.2 | 0 | C | 6.6 | -28 | 121 | -2.9 | 3.9 | -4.3 | 1 | C |
| 7 | 384 | 4.3 | 0 | C | 6.7 | -24 | 124 | -3.4 | 3.9 | -4.2 | 1 | C |
| 8 | 382 | 5.6 | 24 | J | 7.6 | -12 | 130 | -4.1 | 4.1 | -3.1 | 3 | J |
| 9 | 384 | 7.5 | 23 | J | 7.3 | -14 | 120 | -3.4 | 4.7 | -3.9 | 2 | J |
| 10 | 390 | 6.1 | 26 | J | 7.2 | -12 | 126 | -4.0 | 4.4 | -3.6 | 2 | J |
| 11 | 371 | 6.2 | 0 | C | 7.4 | -7 | 124 | -4.0 | 5.0 | -3.2 | 2 | J |
| 12 | 368 | 5.8 | 0 | C | 7.3 | 5 | 126 | -4.2 | 5.7 | -1.7 | 1 | C |
| 13 | 380 | 6.0 | 0 | C | 6.5 | 18 | 126 | -3.4 | 5.1 | -0.0 | 2 | C |
| 14 | 387 | 6.1 | 0 | C | 5.1 | 24 | 132 | -3.0 | 3.8 | 0.7 | 1 | C |
| 15 | 386 | 6.0 | 0 | C | 5.1 | 12 | 135 | -3.2 | 3.3 | -0.0 | 2 | C |
| 16 | 406 | 6.4 | 20 | J | 5.1 | -8 | 104 | -1.2 | 4.6 | -1.9 | 1 | J |
| 17 | 396 | 7.7 | 34 | J | 5.2 | 12 | 128 | -3.0 | 4.0 | 0.2 | 2 | J |
| 18 | 386 | 8.2 | 31 | J | 5.2 | 9 | 134 | -3.4 | 3.6 | 0.2 | 1 | J |
| 19 | 383 | 6.9 | 27 | J | 5.1 | -10 | 146 | -4.0 | 2.6 | -1.1 | 1 | J |
| 20 | 384 | 6.4 | 26 | J | 4.4 | -9 | 155 | -3.4 | 1.5 | -0.7 | 2 | J |
| 21 | 362 | 5.3 | 42 | J | 4.9 | -16 | 146 | -3.8 | 2.5 | -1.4 | 1 | C |
| 22 | 374 | 5.0 | 0 | C | 4.9 | -10 | 166 | -4.6 | 1.2 | -0.8 | 1 | C |
| 23 | 374 | 4.3 | 35 | J | 4.0 | -48 | 176 | -2.5 | 0.2 | -2.7 | 1 | J |
| 24 | 373 | 5.0 | 29 | J | 4.3 | -37 | 153 | -2.8 | 1.4 | -2.4 | 2 | J |

NOV. 23, 1981 327

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 5.2 | 32 | J | 4.2 | -25 | 204 | -3.3 | -1.5 | -1.7 | 1 | J |
| 2 | 375 | 5.3 | 28 | J | 5.1 | -49 | 183 | -3.1 | -0.3 | -3.5 | 2 | J |
| 3 | 379 | 6.1 | 30 | J | 5.2 | -47 | 136 | -2.5 | 2.0 | -3.9 | 1 | J |
| 4 | 367 | 4.4 | 14 | J | 6.2 | -35 | 108 | -1.5 | 4.2 | -4.2 | 1 | J |
| 5 | 354 | 5.7 | 0 | C | 6.1 | -32 | 101 | -1.0 | 4.2 | -4.1 | 1 | C |
| 6 | 350 | 5.7 | 0 | C | 6.4 | -30 | 101 | -1.0 | 4.3 | -4.4 | 1 | C |
| 7 | 342 | 5.8 | 0 | C | 6.6 | -46 | 129 | -2.8 | 1.8 | -5.5 | 1 | C |
| 8 | 333 | 5.9 | 0 | C | 6.6 | -35 | 152 | -4.7 | 0.9 | -4.4 | 1 | C |
| 9 | 327 | 5.6 | 0 | C | 6.7 | -23 | 156 | -5.5 | 1.3 | -3.4 | 1 | C |
| 10 | 331 | 6.4 | 0 | C | 7.2 | -31 | 153 | -5.4 | 1.0 | -4.5 | 1 | C |
| 11 | 338 | 8.6 | 0 | C | 10.1 | -41 | 152 | -6.4 | 0.5 | -7.3 | 2 | C |
| 12 | 350 | 8.6 | 0 | C | 10.0 | -37 | 99 | -1.2 | 4.7 | -8.3 | 2 | C |
| 13 | 355 | 6.0 | 0 | C | 10.7 | -36 | 98 | -1.2 | 5.2 | -8.4 | 4 | C |
| 14 | 359 | 3.9 | 0 | C | 10.3 | -74 | 141 | -2.2 | -1.7 | -9.8 | 1 | C |
| 15 | 359 | 4.6 | 0 | C | 9.4 | -63 | 118 | -2.0 | 1.1 | -9.0 | 1 | C |
| 16 | 360 | 5.5 | 0 | C | 9.2 | -56 | 130 | -3.3 | 1.8 | -8.3 | 1 | C |
| 17 | 361 | 6.3 | 0 | C | 9.2 | -56 | 133 | -3.3 | 2.1 | -8.0 | 2 | C |
| 18 | 354 | 7.4 | 0 | C | 8.8 | -42 | 94 | -0.4 | 5.5 | -6.6 | 2 | C |
| 19 | 367 | 7.4 | 0 | C | 8.3 | -46 | 90 | 0.0 | 4.9 | -6.2 | 2 | C |
| 20 | 372 | 7.2 | 0 | C | | | | | | | | |
| 21 | 359 | 7.1 | 0 | C | | | | | | | | |
| 22 | 359 | 7.1 | 0 | C | 7.0 | -51 | 158 | -4.1 | 1.7 | -5.4 | 1 | C |
| 23 | 362 | 5.9 | 0 | C | 6.8 | -52 | 155 | -3.8 | 1.8 | -5.2 | 1 | C |
| 24 | 36[illegible] | 5.5 | 0 | C | 6.7 | -44 | 154 | -4.3 | 2.1 | -4.6 | 0 | C |

NOV. 24, 1981 328

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 351 | 4.6 | 0 | C | 6.4 | -42 | 149 | -4.1 | 2.4 | -4.4 | 0 | C |
| 2 | 359 | 3.6 | 21 | J | 6.0 | -44 | 121 | -2.2 | 3.5 | -4.3 | 1 | J |
| 3 | 362 | 3.4 | 16 | J | 5.7 | -44 | 110 | -1.4 | 3.4 | -4.2 | 1 | J |
| 4 | 361 | 3.1 | 15 | J | 5.6 | -45 | 102 | -0.8 | 3.2 | -4.4 | 0 | J |
| 5 | 351 | 3.0 | 16 | J | 5.4 | -51 | 86 | 0.2 | 2.5 | -4.8 | 0 | J |
| 6 | 347 | 3.1 | 20 | J | 5.3 | -45 | 92 | -0.1 | 2.6 | -4.5 | 0 | J |
| 7 | 328 | 4.0 | 0 | C | 5.5 | -39 | 101 | -0.8 | 2.9 | -4.6 | 0 | C |
| 8 | 321 | 4.2 | 0 | C | 4.9 | -41 | 99 | -0.6 | 2.3 | -4.3 | 0 | C |
| 9 | 322 | 4.3 | 0 | C | 4.9 | -47 | 89 | 0.1 | 1.7 | -4.6 | 1 | C |
| 10 | 331 | 4.3 | 0 | C | 4.8 | -47 | 102 | -0.7 | 1.5 | -4.4 | 1 | C |
| 11 | 339 | 3.8 | 0 | C | 5.0 | -36 | 117 | -1.8 | 2.1 | -4.1 | 1 | C |
| 12 | 339 | 4.3 | 0 | C | 4.9 | -23 | 123 | -2.4 | 2.7 | -3.3 | 0 | C |
| 13 | 331 | 5.0 | 0 | C | 4.6 | -29 | 122 | -2.1 | 2.3 | -3.3 | 0 | C |
| 14 | 324 | 5.4 | 0 | C | 4.9 | -38 | 121 | -2.0 | 2.1 | -3.9 | 1 | C |
| 15 | 323 | 5.9 | 0 | C | 5.1 | -41 | 126 | -2.2 | 2.0 | -4.0 | 1 | J |
| 16 | 328 | 7.4 | 10 | J | 5.1 | -53 | 132 | -2.0 | 1.2 | -4.4 | 1 | J |
| 17 | 313 | 6.5 | 0 | C | 4.8 | -64 | 120 | -1.0 | 0.9 | -4.6 | 0 | C |
| 18 | 315 | 5.8 | 0 | C | 5.4 | -59 | 126 | -1.6 | 1.6 | -4.9 | 0 | C |
| 19 | 315 | 5.8 | 0 | C | 4.5 | -86 | 234 | -0.2 | -0.6 | -4.3 | 1 | C |
| 20 | 314 | 6.4 | 0 | C | | | | | | | | |
| 21 | 296 | 8.3 | 0 | C | 4.4 | -60 | 97 | -0.3 | 2.1 | -3.8 | 1 | C |
| 22 | 323 | 8.9 | 10 | J | 4.1 | -48 | 279 | 0.4 | -2.5 | -2.8 | 2 | J |
| 23 | 330 | 11.8 | 11 | J | 3.0 | -48 | 290 | 0.6 | -1.7 | -2.1 | 1 | J |
| 24 | 330 | 12.2 | 12 | J | 3.4 | -24 | 290 | 1.1 | -2.9 | -1.4 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 311 | 12.0 | 0 | C | 3.7 | -14 | 292 | 1.3 | -3.3 | -0.9 | 0 | J |
| 2 | 331 | 14.9 | 11 | J | 3.6 | 2 | 276 | 0.4 | -3.6 | 0.3 | 1 | J |
| 3 | 410 | 44.1 | 109 | J | 9.6 | 78 | 21 | 1.5 | 1.2 | 7.6 | 9 | J |
| 4 | 406 | 58.7 | 131 | J | 17.8 | 31 | 343 | 9.6 | -2.1 | 6.4 | 14 | J |
| 5 | 393 | 45.5 | 100 | J | 25.6 | 20 | 41 | 17.5 | 16.6 | 5.3 | 7 | J |
| 6 | | | | | | | | | | | | |
| 7 | 406 | 78.5 | 0 | C | 30.9 | 45 | 240 | -9.9 | -10.1 | 23.8 | 11 | C |
| 8 | 406 | 78.5 | 0 | C | 23.8 | 70 | 59 | 3.4 | 11.8 | 15.0 | 12 | C |
| 9 | 426 | 69.4 | 0 | C | 27.5 | 67 | 253 | -2.8 | 0.3 | 24.8 | 11 | C |
| 10 | 421 | 34.8 | 0 | C | 25.5 | 75 | 26 | 5.7 | 12.0 | 20.9 | 5 | C |
| 11 | 434 | 34.5 | 0 | C | 27.4 | 80 | 107 | -1.4 | 14.4 | 22.0 | 7 | C |
| 12 | 453 | 28.2 | 0 | C | 29.2 | 14 | 233 | -15.9 | -16.9 | 14.0 | 10 | C |
| 13 | 487 | 37.6 | 0 | C | 25.3 | 9 | 247 | -9.4 | -18.8 | 11.5 | 7 | C |
| 14 | 524 | 47.3 | 0 | C | 22.1 | 20 | 258 | -4.4 | -16.3 | 13.6 | 4 | C |
| 15 | 518 | 45.7 | 0 | C | 22.6 | 20 | 266 | -1.4 | -17.9 | 13.4 | 2 | C |
| 16 | 475 | 34.5 | 0 | C | 21.3 | 27 | 265 | -1.8 | -15.7 | 13.8 | 3 | C |
| 17 | 451 | 38.7 | 0 | C | 11.7 | 55 | 227 | -2.9 | -1.9 | 6.7 | 10 | C |
| 18 | 516 | 7.3 | 55 | J | 7.9 | 32 | 189 | -6.6 | -0.5 | 4.3 | 0 | J |
| 19 | 475 | 10.3 | 0 | C | 7.4 | 23 | 197 | -6.5 | -1.7 | 3.0 | 1 | C |
| 20 | 473 | 8.0 | 0 | C | 7.6 | 30 | 161 | -5.7 | 2.1 | 3.4 | 3 | C |
| 21 | 454 | 5.8 | 0 | C | 7.7 | 10 | 222 | -5.3 | -4.8 | 1.3 | 2 | C |
| 22 | 434 | 5.4 | 0 | C | 7.2 | 7 | 211 | -5.9 | -3.6 | 0.8 | 2 | C |
| 23 | 432 | 4.4 | 43 | J | 6.2 | -44 | 275 | 0.3 | -3.9 | -3.9 | 3 | J |
| 24 | 436 | 5.2 | 0 | C | 6.6 | -55 | 303 | 2.1 | -3.1 | -5.5 | 0 | J |

NOV. 26, 1981 330

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 453 | 4.5 | 0 | C | 7.2 | -22 | 272 | 0.2 | -6.1 | -2.5 | 3 | C |
| 2 | 445 | 5.2 | 0 | C | 7.3 | -32 | 343 | 5.7 | -1.8 | -3.7 | 2 | C |
| 3 | 447 | 5.7 | 0 | C | 7.0 | -11 | 300 | 2.0 | -3.6 | -0.5 | 5 | C |
| 4 | 443 | 5.6 | 0 | C | 7.0 | -12 | 281 | 1.2 | -6.4 | -0.6 | 2 | C |
| 5 | 443 | 5.1 | 0 | C | 7.0 | -14 | 292 | 2.3 | -5.8 | -0.4 | 3 | C |
| 6 | 448 | 4.7 | 0 | C | 7.3 | -32 | 322 | 4.7 | -4.5 | -2.7 | 1 | C |
| 7 | 442 | 5.0 | 0 | C | 7.1 | -20 | 297 | 2.7 | -5.9 | -0.5 | 2 | C |
| 8 | 440 | 5.1 | 0 | C | 7.1 | -11 | 280 | 1.1 | -6.4 | 1.0 | 2 | C |
| 9 | 429 | 5.0 | 0 | C | 7.2 | -27 | 291 | 2.1 | -6.3 | -0.7 | 2 | C |
| 10 | 416 | 5.4 | 0 | C | 7.4 | -18 | 307 | 4.1 | -5.8 | 0.1 | 2 | C |
| 11 | 411 | 5.6 | 0 | C | 7.2 | 19 | 305 | 3.8 | -4.2 | 4.3 | 1 | C |
| 12 | 425 | 5.3 | 0 | C | | | | | | | | |
| 13 | 425 | 5.3 | 0 | C | 6.6 | -36 | 317 | 3.7 | -4.4 | -2.2 | 2 | C |
| 14 | 429 | 5.6 | 0 | C | 5.7 | -22 | 312 | 2.8 | -3.5 | -0.6 | 3 | C |
| 15 | 424 | 6.1 | 0 | C | 5.3 | 14 | 323 | 2.7 | -1.7 | 1.4 | 3 | C |
| 16 | 432 | 6.0 | 0 | C | 5.7 | -3 | 28 | 2.7 | 1.4 | -0.5 | 4 | C |
| 17 | 429 | 6.3 | 0 | C | 6.1 | -10 | 31 | 4.1 | 2.3 | -1.2 | 3 | C |
| 18 | 415 | 5.6 | 0 | C | 6.4 | -1 | 36 | 4.9 | 3.6 | -0.5 | 2 | C |
| 19 | 429 | 5.4 | 0 | C | 6.0 | 26 | 39 | 3.9 | 3.4 | 2.2 | 2 | C |
| 20 | 412 | 4.1 | 0 | C | 5.1 | 4 | 344 | 4.5 | -1.3 | 0.4 | 2 | C |
| 21 | 420 | 4.3 | 0 | C | 5.2 | 4 | 317 | 3.4 | -3.2 | 0.3 | 2 | C |
| 22 | 437 | 3.9 | 0 | C | 5.3 | 28 | 340 | 4.2 | -1.6 | 2.3 | 1 | C |
| 23 | 429 | 3.3 | 39 | J | 5.0 | 7 | 355 | 4.1 | -0.4 | 0.5 | 3 | J |
| 24 | 441 | 3.4 | 0 | C | 5.0 | 3 | 327 | 4.1 | -2.6 | 0.2 | 1 | C |

NOV. 27, 1981 331

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 445 | 3.5 | 0 | C | 5.4 | -3 | 332 | 4.5 | -2.4 | -0.3 | 1 | C |
| 2 | 432 | 4.7 | 57 | J | 5.8 | -2 | 23 | 5.2 | 2.2 | -0.3 | 1 | J |
| 3 | 426 | 4.5 | 60 | J | 6.0 | 5 | 29 | 5.1 | 2.8 | 0.3 | 1 | J |
| 4 | 425 | 4.7 | 0 | C | 5.9 | 14 | 29 | 4.8 | 2.8 | 1.0 | 2 | J |
| 5 | 421 | 4.0 | 130 | L | 5.9 | 15 | 16 | 5.4 | 1.8 | 1.2 | 1 | J |
| 6 | 420 | 5.8 | 0 | C | 6.2 | 15 | 53 | 2.7 | 3.7 | 0.3 | 4 | J |
| 7 | 432 | 4.7 | 53 | J | 6.4 | -37 | 18 | 4.8 | 0.4 | -4.1 | 1 | J |
| 8 | 437 | 5.0 | 59 | J | 6.5 | 7 | 43 | 4.3 | 4.0 | -0.7 | 3 | J |
| 9 | 425 | 5.4 | 69 | J | 6.5 | 16 | 29 | 4.9 | 3.1 | 0.5 | 3 | J |
| 10 | 419 | 4.9 | 0 | C | 6.9 | 3 | 28 | 5.8 | 3.0 | -0.8 | 2 | C |
| 11 | 410 | 5.0 | 0 | C | 6.6 | 28 | 360 | 5.6 | 1.1 | 2.8 | 1 | C |
| 12 | 408 | 5.3 | 0 | C | 6.5 | 25 | 6 | 5.8 | 1.6 | 2.3 | 0 | C |
| 13 | 405 | 5.2 | 0 | C | 6.7 | 17 | 4 | 6.3 | 1.1 | 1.7 | 1 | C |
| 14 | 398 | 5.0 | 0 | C | 6.7 | 21 | 5 | 6.2 | 1.2 | 2.1 | 1 | C |
| 15 | 387 | 5.0 | 0 | C | 6.7 | 18 | 358 | 6.4 | 0.4 | 2.0 | 1 | C |
| 16 | 382 | 5.0 | 0 | C | 6.5 | 16 | 350 | 6.1 | -0.7 | 2.0 | 0 | C |
| 17 | 388 | 4.7 | 0 | C | 6.2 | 24 | 353 | 5.6 | -0.3 | 2.6 | 1 | C |
| 18 | 388 | 4.7 | 0 | C | 6.0 | 18 | 1 | 5.5 | 0.4 | 1.8 | 1 | C |
| 19 | 381 | 4.6 | 50 | J | 5.7 | 24 | 3 | 5.1 | 0.4 | 2.3 | 1 | J |
| 20 | 394 | 4.8 | 78 | J | 6.1 | 30 | 2 | 5.1 | 0.3 | 2.9 | 1 | J |
| 21 | 379 | 6.0 | 26 | J | 7.4 | 35 | 25 | 5.3 | 2.4 | 4.1 | 2 | J |
| 22 | 392 | 5.4 | 32 | J | 7.5 | 26 | 341 | 5.7 | -2.0 | 2.9 | 3 | J |
| 23 | 417 | 6.6 | 33 | J | 6.3 | 47 | 64 | 1.8 | 3.5 | 4.4 | 2 | J |
| 24 | 425 | 5.8 | 38 | J | 6.3 | 69 | 40 | 1.7 | 1.2 | 5.8 | 1 | J |

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### NOV. 28, 1981 332

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 388 | 5.9 | 0 | C | 7.0 | -24 | 322 | 3.3 | -2.6 | -1.9 | 4 | C |
| 2 | 381 | 7.5 | 0 | C | 7.2 | -25 | 307 | 3.5 | -4.7 | -2.6 | 2 | C |
| 3 | 388 | 8.7 | 0 | C | 7.1 | 22 | 292 | 2.3 | -5.5 | 2.8 | 2 | C |
| 4 | 392 | 9.5 | 0 | C | 6.7 | 18 | 302 | 3.1 | -4.7 | 2.5 | 2 | C |
| 5 | 388 | 9.6 | 0 | C | 7.1 | 20 | 305 | 3.7 | -4.9 | 3.4 | 1 | C |
| 6 | 381 | 8.9 | 0 | C | 7.3 | 31 | 315 | 4.3 | -3.3 | 4.6 | 1 | C |
| 7 | 393 | 6.8 | 99 | J | 5.8 | -3 | 315 | 3.4 | -3.3 | 0.7 | 3 | J |
| 8 | 401 | 6.8 | 68 | J | 6.6 | -29 | 315 | 3.6 | -4.4 | -1.5 | 3 | J |
| 9 | 411 | 5.7 | 40 | J | 7.1 | 19 | 297 | 3.0 | -4.6 | 4.2 | 2 | J |
| 10 | 403 | 5.4 | 41 | J | 7.2 | 3 | 299 | 3.2 | -5.3 | 2.5 | 2 | J |
| 11 | 397 | 6.1 | 0 | C | 7.4 | 7 | 290 | 2.5 | -6.0 | 3.4 | 1 | C |
| 12 | 401 | 6.6 | 0 | C | 7.2 | -1 | 291 | 2.5 | -6.1 | 2.3 | 0 | C |
| 13 | 397 | 6.6 | 0 | C | 7.0 | 1 | 313 | 4.6 | -4.6 | 1.8 | 2 | C |
| 14 | 398 | 6.7 | 0 | C | 6.3 | -33 | 285 | 1.1 | -4.8 | -1.4 | 4 | J |
| 15 | 445 | 6.1 | 47 | J | 6.3 | -23 | 275 | 0.5 | -5.7 | -0.8 | 3 | J |
| 16 | 418 | 5.9 | 42 | J | 6.5 | -31 | 277 | 0.7 | -6.0 | -2.0 | 1 | J |
| 17 | 413 | 7.4 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 426 | 6.7 | 49 | J | 6.1 | 5 | 278 | 0.7 | -5.0 | 1.1 | 3 | J |
| 19 | 427 | 7.0 | 57 | J | 6.1 | -2 | 264 | -0.6 | -5.9 | 0.2 | 1 | J |
| 20 | 421 | 6.6 | 43 | J | 6.1 | 40 | 303 | 2.0 | -3.1 | 3.2 | 3 | J |
| 21 | 405 | 6.4 | 45 | J | 6.1 | -9 | 308 | 3.3 | -4.2 | -0.9 | 3 | J |
| 22 | 410 | 6.2 | 39 | J | 6.2 | -25 | 291 | 1.8 | -4.6 | -2.5 | 3 | J |
| 23 | 405 | 6.1 | 33 | J | 6.4 | -30 | 290 | 1.8 | -4.8 | -3.3 | 2 | J |
| 24 | 381 | 6.0 | 43 | J | 6.5 | -18 | 319 | 4.5 | -3.9 | -2.1 | 1 | J |

### NOV. 29, 1981 333

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 392 | 6.7 | 0 | C | 6.6 | -16 | 314 | 4.2 | -4.2 | -1.8 | 2 | C |
| 365 | 5.8 | 21 | J | 6.4 | -25 | 309 | 3.6 | -4.5 | -2.6 | 1 | J |
| 379 | 6.4 | 28 | J | 6.3 | -7 | 295 | 2.5 | -5.3 | -0.4 | 2 | J |
| 374 | 6.7 | 0 | C | 6.5 | -13 | 294 | 2.2 | -5.1 | -0.7 | 3 | C |
| 379 | 6.1 | 25 | J | 6.5 | -10 | 295 | 2.5 | -5.6 | -0.1 | 2 | C |
| 373 | 6.2 | 21 | J | 6.3 | 5 | 299 | 3.0 | -5.1 | 1.8 | 1 | J |
| 368 | 5.9 | 23 | J | 6.3 | -7 | 296 | 2.6 | -5.4 | 0.8 | 1 | J |
| 368 | 6.3 | 30 | J | 6.3 | 8 | 297 | 2.6 | -4.5 | 2.4 | 3 | J |
| 366 | 5.7 | 21 | J | 6.5 | -6 | 287 | 1.8 | -5.8 | 1.5 | 2 | J |
| 353 | 6.5 | 0 | C | 6.7 | 5 | 301 | 3.2 | -4.7 | 2.5 | 2 | C |
| 381 | 6.7 | 38 | J | 5.0 | -10 | 256 | -1.1 | -4.5 | 0.9 | 2 | J |
| 393 | 7.2 | 51 | J | 5.7 | -9 | 259 | -1.0 | -5.2 | 1.1 | 2 | J |
| 367 | 6.6 | 0 | C | 5.9 | 7 | 262 | -0.8 | -4.8 | 2.4 | 2 | J |
| 370 | 6.9 | 0 | C | 5.7 | -10 | 251 | -1.7 | -5.0 | 0.6 | 2 | C |
| 369 | 7.2 | 0 | C | 5.5 | -3 | 239 | -2.6 | -4.2 | 0.8 | 2 | C |
| 366 | 7.1 | 0 | C | 4.9 | 11 | 270 | -0.0 | -3.3 | 1.4 | 3 | C |
| 364 | 6.8 | 0 | C | 5.2 | -14 | 251 | -1.5 | -4.5 | -0.4 | 1 | C |
| 365 | 6.1 | 37 | J | 5.5 | 2 | 281 | 1.0 | -5.1 | 0.8 | 1 | J |
| 355 | 6.0 | 43 | J | 5.1 | 20 | 305 | 2.5 | -3.4 | 1.8 | 2 | J |
| 366 | 6.1 | 42 | J | 5.4 | -1 | 281 | 0.8 | -3.9 | 0.0 | 4 | J |
| 362 | 6.1 | 33 | J | 5.5 | -11 | 268 | -0.2 | -4.8 | -1.0 | 2 | J |
| 356 | 5.6 | 28 | J | 5.7 | 21 | 277 | 0.6 | -5.0 | 1.7 | 2 | J |
| 348 | 6.8 | 0 | C | 5.7 | 13 | 267 | -0.2 | -5.1 | 0.9 | 2 | C |
| 347 | 7.2 | 0 | C | 5.4 | 2 | 279 | 0.7 | -4.3 | -0.1 | 3 | C |

### NOV. 30, 1981 334

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 346 | 7.3 | 0 | C | 4.9 | -3 | 303 | 2.5 | -3.8 | -0.4 | 2 | C |
| 2 | 345 | 7.0 | 0 | C | 5.3 | 21 | 296 | 2.1 | -4.3 | 1.9 | 1 | C |
| 3 | 344 | 7.1 | 0 | C | 5.2 | 13 | 311 | 3.1 | -3.6 | 1.3 | 1 | C |
| 4 | 343 | 7.3 | 0 | C | 5.2 | 7 | 328 | 4.3 | -2.6 | 0.9 | 1 | C |
| 5 | 342 | 7.4 | 0 | C | 5.1 | -2 | 332 | 4.3 | -2.3 | 0.2 | 1 | C |
| 6 | 340 | 7.6 | 0 | C | 5.0 | -2 | 332 | 4.3 | -2.3 | 0.3 | 1 | C |
| 7 | 338 | 7.6 | 0 | C | 4.8 | 0 | 323 | 3.8 | -2.7 | 0.8 | 0 | C |
| 8 | 335 | 7.3 | 0 | C | 5.1 | 8 | 337 | 4.6 | -1.6 | 1.3 | 1 | C |
| 9 | 334 | 7.2 | 0 | C | 5.2 | 6 | 338 | 4.7 | -1.6 | 1.2 | 1 | C |
| 10 | 337 | 7.0 | 0 | C | 5.1 | -10 | 322 | 3.9 | -3.1 | 0.3 | 1 | C |
| 11 | 339 | 7.1 | 0 | C | 5.1 | -10 | 311 | 3.2 | -3.7 | 0.5 | 1 | C |
| 12 | 335 | 7.9 | 0 | C | 5.2 | -12 | 299 | 2.4 | -4.4 | 0.6 | 1 | C |
| 13 | 334 | 8.7 | 0 | C | 5.4 | -10 | 303 | 2.8 | -4.5 | 0.6 | 1 | C |
| 14 | 334 | 9.2 | 0 | C | 5.7 | 23 | 306 | 3.0 | -3.2 | 3.3 | 1 | C |
| 15 | 332 | 9.4 | 0 | C | 6.0 | 29 | 278 | 0.7 | -4.1 | 4.1 | 1 | C |
| 16 | 327 | 9.3 | 0 | C | 5.9 | 67 | 325 | 1.6 | -0.1 | 4.8 | 3 | C |
| 17 | 321 | 9.3 | 0 | C | 6.0 | 77 | 276 | 0.1 | -0.4 | 5.8 | 1 | C |
| 18 | 319 | 8.9 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 322 | 8.7 | 0 | C | 6.0 | 38 | 290 | 1.6 | -4.2 | 3.9 | 1 | C |
| 20 | 322 | 8.6 | 0 | C | 5.9 | 24 | 288 | 1.6 | -4.9 | 2.4 | 1 | C |
| 21 | 322 | 8.8 | 0 | C | 5.8 | 25 | 284 | 1.2 | -4.9 | 2.2 | 2 | C |
| 22 | 320 | 8.9 | 0 | C | 6.1 | 12 | 261 | -0.9 | -5.7 | 0.9 | 1 | C |
| 23 | 315 | 9.6 | 0 | C | 5.9 | 19 | 346 | 4.4 | -1.2 | 1.5 | 3 | C |
| 24 | 305 | 9.8 | 0 | C | 6.0 | 9 | 323 | 4.6 | -3.5 | 0.8 | 1 | C |

### DEC. 1, 1981 335

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 303 | 10.0 | 0 | C | 6.2 | 3 | 309 | 3.8 | -4.6 | 0.2 | 1 | C |
| 300 | 10.0 | 0 | C | 6.4 | -32 | 326 | 4.4 | -2.9 | -3.4 | 1 | C |
| 300 | 10.0 | 0 | C | 6.4 | 2 | 323 | 4.8 | -3.5 | 0.4 | 2 | C |
| 303 | 10.8 | 0 | C | 6.1 | 14 | 338 | 5.4 | -2.1 | 1.6 | 1 | C |
| 299 | 11.3 | 0 | C | 5.9 | -16 | 325 | 4.2 | -3.2 | -1.0 | 2 | C |
| 298 | 11.9 | 0 | C | 5.7 | -2 | 328 | 4.5 | -2.8 | 0.5 | 2 | C |
| 302 | 12.6 | 0 | C | 5.5 | 16 | 296 | 2.1 | -3.8 | 2.5 | 2 | C |
| 300 | 13.2 | 0 | C | 5.7 | 5 | 282 | 1.1 | -4.7 | 2.0 | 2 | C |
| 301 | 14.3 | 0 | C | 6.4 | 5 | 297 | 2.5 | -4.5 | 2.2 | 3 | C |
| 303 | 15.9 | 0 | C | 6.7 | -11 | 293 | 2.1 | -5.2 | 0.8 | 3 | C |
| 296 | 15.9 | 0 | C | 6.9 | -15 | 292 | 2.4 | -6.1 | 0.5 | 1 | C |
| 310 | 18.9 | 0 | C | 6.5 | -18 | 277 | 0.6 | -5.7 | 0.2 | 3 | C |
| 324 | 23.6 | 0 | C | 8.9 | -25 | 286 | 2.1 | -8.0 | -0.9 | 3 | C |
| 330 | 24.6 | 0 | C | 9.7 | -24 | 276 | 0.8 | -9.1 | -1.2 | 2 | C |
| 334 | 26.8 | 0 | C |  |  |  |  |  |  |  |  |
| 331 | 31.0 | 0 | C | 11.9 | -22 | 293 | 3.8 | -9.5 | -2.0 | 4 | C |
| 339 | 30.4 | 0 | C | 13.0 | -39 | 158 | -6.0 | 1.6 | -5.5 | 10 | C |
| 347 | 25.5 | 0 | C | 12.5 | 15 | 133 | -7.3 | 8.2 | 2.0 | 5 | C |
| 352 | 20.9 | 0 | C | 12.0 | 1 | 116 | -5.1 | 10.3 | -0.3 | 3 | C |
| 355 | 17.4 | 0 | C | 12.2 | 18 | 116 | -5.0 | 10.3 | 3.7 | 1 | C |
| 359 | 14.6 | 0 | C | 11.5 | 10 | 116 | -4.8 | 9.9 | 2.2 | 2 | C |
| 356 | 14.3 | 0 | C | 11.3 | 2 | 112 | -3.9 | 9.8 | 0.8 | 3 | C |
| 349 | 13.4 | 0 | C | 11.9 | 4 | 105 | -3.1 | 11.3 | 1.7 | 1 | C |
| 357 | 14.4 | 0 | C | 11.4 | 21 | 100 | -1.8 | 9.8 | 4.5 | 3 | C |

### DEC. 2, 1981 336

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 359 | 15.8 | 0 | C | 11.3 | 9 | 119 | -5.4 | 9.5 | 2.3 | 1 | C |
| 2 | 357 | 17.4 | 0 | C | 11.5 | 10 | 121 | -5.8 | 9.5 | 2.0 | 2 | C |
| 3 | 360 | 22.2 | 0 | C | 10.3 | 35 | 95 | -0.8 | 8.3 | 5.4 | 3 | C |
| 4 | 364 | 25.7 | 0 | C |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 358 | 22.5 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 358 | 22.5 | 0 | C | 9.0 | 63 | 51 | 2.5 | 5.3 | 6.6 | 1 | C |
| 9 | 366 | 21.9 | 0 | C | 11.8 | 64 | 14 | 4.3 | 4.1 | 8.3 | 6 | C |
| 10 | 371 | 16.3 | 0 | C | 10.6 | -22 | 302 | 2.3 | -4.0 | -0.3 | 9 | C |
| 11 | 375 | 15.7 | 0 | C | 12.3 | -57 | 293 | 2.5 | -9.3 | -7.4 | 1 | C |
| 12 | 371 | 10.6 | 0 | C | 13.1 | -26 | 310 | 4.5 | -6.2 | -1.4 | 10 | C |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 344 | 9.1 | 0 | C | 11.7 | 65 | 315 | 3.5 | -2.6 | 10.7 | 1 | C |
| 19 | 344 | 9.1 | 0 | C | 9.9 | 17 | 55 | 5.1 | 7.4 | 2.4 | 3 | C |
| 20 | 356 | 11.7 | 0 | C | 8.4 | 64 | 352 | 3.3 | -0.5 | 7.0 | 3 | C |
| 21 | 363 | 10.9 | 0 | C | 10.5 | 36 | 78 | 1.6 | 7.1 | 5.8 | 5 | C |
| 22 | 375 | 18.0 | 0 | C | 10.5 | -5 | 105 | -2.6 | 9.9 | -0.3 | 2 | C |
| 23 | 378 | 30.3 | 0 | C | 9.9 | 22 | 107 | -2.5 | 7.7 | 4.0 | 3 | C |
| 24 | 369 | 27.1 | 0 | C | 12.7 | 36 | 130 | -5.1 | 5.6 | 6.2 | 8 | C |

### DEC. 3, 1981 337

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 365 | 22.5 | 0 | C | 12.8 | 48 | 87 | 0.4 | 6.9 | 8.5 | 6 | C |
| 378 | 17.9 | 0 | C | 12.0 | 59 | 92 | -0.2 | 5.9 | 10.0 | 3 | C |
| 379 | 18.9 | 0 | C | 11.4 | 61 | 324 | 4.0 | -2.7 | 8.9 | 5 | C |
| 380 | 18.4 | 0 | C | 10.4 | 54 | 75 | 1.4 | 5.8 | 7.1 | 4 | C |
| 389 | 18.4 | 0 | C | 6.9 | 56 | 138 | -0.6 | 0.7 | 1.0 | 6 | C |
| 395 | 17.9 | 0 | C | 5.7 | 23 | 347 | 2.4 | -0.3 | 1.1 | 5 | C |
| 390 | 17.4 | 0 | C | 6.7 | 12 | 256 | -1.5 | -5.4 | 2.8 | 2 | C |
| 380 | 16.9 | 0 | C | 7.1 | 19 | 253 | -1.8 | -5.2 | 4.0 | 2 | C |
| 382 | 16.9 | 0 | C | 7.4 | 32 | 277 | 0.6 | -4.0 | 4.9 | 3 | C |
| 388 | 16.8 | 0 | C | 7.5 | 23 | 310 | 3.4 | -3.0 | 3.5 | 5 | C |
| 385 | 16.1 | 0 | C | 6.2 | 47 | 308 | 1.6 | -1.0 | 3.4 | 4 | C |
| 425 | 13.5 | 0 | C | 8.9 | -43 | 189 | -6.3 | -2.8 | -5.3 | 1 | C |
| 425 | 13.5 | 0 | C | 7.6 | -13 | 148 | -5.9 | 3.0 | -2.5 | 2 | C |
| 435 | 12.9 | 0 | C | 7.8 | -26 | 157 | -6.2 | 1.7 | -3.7 | 2 | C |
| 429 | 12.6 | 0 | C | 7.0 | 6 | 147 | -5.0 | 3.3 | 0.0 | 3 | C |
| 430 | 11.6 | 0 | C | 8.5 | -13 | 118 | -3.9 | 6.9 | -2.8 | 1 | C |
| 433 | 11.8 | 0 | C | 8.1 | -6 | 112 | -2.6 | 6.5 | -1.3 | 3 | C |
| 433 | 11.6 | 0 | C | 7.9 | -24 | 115 | -2.9 | 6.1 | -3.2 | 2 | C |
| 425 | 9.9 | 0 | C | 7.8 | -10 | 145 | -5.8 | 4.1 | -1.3 | 2 | C |
| 428 | 10.1 | 0 | C | 7.7 | 3 | 125 | -4.2 | 6.0 | 0.7 | 2 | C |
| 414 | 9.2 | 65 | J | 7.5 | -13 | 157 | -6.4 | 2.8 | -1.4 | 2 | C |
| 405 | 9.5 | 68 | J | 7.4 | -23 | 149 | -5.0 | 3.2 | -2.3 | 3 | J |
| 427 | 9.9 | 62 | J | 7.3 | -67 | 158 | -2.5 | 1.5 | -6.3 | 2 | J |

### DEC. 4, 1981 338

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 418 | 11.4 | 0 | C | 7.6 | -15 | 153 | -4.9 | 2.7 | -1.4 | 5 | C |
| 2 | 412 | 10.9 | 0 | C | 7.2 | -39 | 159 | -4.4 | 1.8 | -3.7 | 4 | C |
| 3 | 409 | 10.7 | 0 | C | 7.1 | -44 | 189 | -4.8 | -0.9 | -4.6 | 2 | C |
| 4 | 401 | 9.1 | 51 | J | 6.9 | -28 | 128 | -3.2 | 3.8 | -3.0 | 4 | J |
| 5 | 401 | 9.6 | 73 | J | 6.6 | 0 | 153 | -5.2 | 2.6 | -0.4 | 2 | J |
| 6 | 392 | 9.3 | 77 | J | 6.3 | 9 | 180 | -5.8 | 0.2 | 0.9 | 2 | J |
| 7 | 404 | 9.6 | 0 | C | 6.4 | 25 | 134 | -3.6 | 4.2 | 1.4 | 2 | C |
| 8 | 400 | 9.3 | 0 | C | 6.3 | -23 | 177 | -5.5 | -0.4 | -2.3 | 2 | C |
| 9 | 400 | 9.1 | 0 | C | 6.0 | 9 | 180 | -5.2 | 0.3 | 0.8 | 3 | C |
| 10 | 399 | 8.8 | 0 | C | 6.0 | -1 | 176 | -5.1 | 0.3 | -0.2 | 3 | C |
| 11 | 399 | 8.5 | 0 | C | 5.9 | -40 | 171 | -4.3 | -0.6 | -3.6 | 1 | C |
| 12 | 399 | 8.6 | 0 | C | 5.6 | -14 | 163 | -4.5 | 0.9 | -1.5 | 2 | C |
| 13 | 398 | 8.0 | 59 | J | 5.5 | -49 | 162 | -2.5 | -0.1 | -3.1 | 4 | J |
| 14 | 391 | 8.7 | 0 | C | 5.6 | 6 | 162 | -5.2 | 1.8 | 0.1 | 1 | C |
| 15 | 384 | 8.7 | 0 | C | 5.3 | 1 | 198 | -4.7 | -1.5 | 0.4 | 2 | C |
| 16 | 386 | 7.0 | 47 | J | 4.8 | -4 | 172 | -3.7 | 0.5 | -0.3 | 2 | J |
| 17 | 388 | 8.2 | 30 | J | 5.3 | -19 | 118 | -2.0 | 3.6 | -2.0 | 3 | J |
| 18 | 397 | 7.7 | 28 | J | 5.2 | -41 | 114 | -1.4 | 2.9 | -3.3 | 2 | J |
| 19 | 395 | 8.2 | 26 | J | 5.6 | -8 | 98 | -0.7 | 5.1 | -0.9 | 2 | J |
| 20 | 383 | 8.0 | 25 | J | 5.2 | -32 | 139 | -2.6 | 2.3 | -2.1 | 3 | J |
| 21 | 364 | 8.4 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 405 | 7.4 | 26 | J | 5.3 | -43 | 80 | 0.5 | 3.1 | -2.5 | 4 | J |
| 23 | 395 | 6.9 | 23 | J | 5.2 | -45 | 67 | 1.2 | 3.2 | -2.9 | 3 | J |
| 24 | 387 | 7.3 | 25 | J | 5.1 | -40 | 98 | -0.5 | 3.6 | -2.5 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 388 | 7.1 | 25 | J | 5.1 | -28 | 77 | 1.0 | 4.4 | -2.1 | 1 | J |
| 369 | 7.7 | 0 | C | 5.2 | -34 | 96 | -0.4 | 4.3 | -2.7 | 1 | J |
| 369 | 7.8 | 0 | C | 5.1 | -49 | 126 | -1.9 | 2.5 | -3.6 | 1 | J |
| 362 | 8.3 | 0 | C | 4.9 | -15 | 122 | -1.2 | 1.9 | -0.7 | 4 | C |
| 376 | 8.2 | 22 | J | 4.6 | -68 | 164 | -1.1 | -0.0 | -2.8 | 3 | J |
| 373 | 7.4 | 32 | J | 4.7 | -8 | 123 | -1.9 | 2.8 | -1.1 | 3 | J |
| 355 | 8.3 | 0 | C | 4.9 | 20 | 120 | -1.9 | 3.5 | 0.6 | 2 | C |
| 380 | 8.4 | 40 | J | 4.7 | -84 | 192 | -0.5 | -1.4 | -4.4 | 1 | J |
| 370 | 7.7 | 23 | J | 4.9 | -20 | 116 | -1.8 | 3.0 | -2.5 | 2 | J |
| 357 | 7.4 | 42 | J | 4.8 | 8 | 168 | -3.6 | 0.9 | 0.2 | 3 | J |
| 342 | 6.9 | 26 | J | 5.3 | 12 | 149 | -4.4 | 2.8 | 0.1 | 1 | J |
| 332 | 8.0 | 0 | C | 5.6 | 9 | 152 | -4.9 | 2.7 | 0.0 | 0 | C |
| 337 | 8.1 | 0 | C | 5.3 | -1 | 137 | -3.8 | 3.4 | -1.2 | 0 | C |
| 337 | 8.1 | 0 | C | 5.3 | 4 | 140 | -4.0 | 3.3 | -0.6 | 1 | C |
| 335 | 8.8 | 0 | C | 5.4 | -19 | 111 | -1.8 | 4.2 | -2.7 | 1 | C |
| 335 | 8.8 | 0 | C | 5.6 | -23 | 89 | 0.1 | 4.4 | -2.9 | 2 | C |
| 350 | 9.0 | 21 | J | 5.5 | -44 | 114 | -1.5 | 3.0 | -4.1 | 1 | J |
| 354 | 7.6 | 20 | J | 6.0 | -42 | 75 | 1.0 | 3.5 | -3.7 | 3 | J |
| 350 | 7.4 | 20 | J | 6.2 | -26 | 79 | 1.0 | 5.2 | -2.7 | 2 | J |
| 340 | 8.7 | 17 | J | 5.9 | -54 | 119 | -1.7 | 3.1 | -4.6 | 1 | J |
| 332 | 9.5 | 0 | C | 5.4 | -48 | 113 | -1.4 | 3.6 | -3.8 | 0 | J |
| 333 | 7.1 | 18 | J | 4.7 | -44 | 151 | -2.7 | 1.7 | -2.9 | 2 | J |
| 330 | 6.7 | 27 | J | 3.9 | 5 | 170 | -3.1 | 0.5 | 0.3 | 2 | J |
| 337 | 7.2 | 27 | J | 4.3 | -39 | 140 | -2.5 | 2.3 | -2.4 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 332 | 7.9 | 0 | C | 4.6 | -27 | 136 | -2.8 | 2.8 | -1.7 | 2 | J |
| 2 | 341 | 7.4 | 24 | J | 4.5 | -27 | 123 | -1.9 | 3.1 | -1.7 | 2 | J |
| 3 | 333 | 7.5 | 30 | J | 5.2 | -36 | 128 | -2.3 | 3.0 | -2.8 | 2 | C |
| 4 | 333 | 6.9 | 26 | J | 5.0 | -25 | 163 | -4.2 | 1.2 | -2.1 | 1 | C |
| 5 | 328 | 7.9 | 0 | C | 4.6 | -24 | 142 | -2.6 | 1.9 | -1.8 | 2 | C |
| 6 | 339 | 7.0 | 19 | J | 4.5 | -35 | 138 | -2.6 | 1.9 | -2.8 | 1 | J |
| 7 | 321 | 7.3 | 0 | C | 4.7 | -33 | 126 | -2.1 | 2.2 | -2.9 | 2 | C |
| 8 | 323 | 7.3 | 0 | C | 4.6 | -19 | 115 | -1.7 | 3.2 | -2.4 | 1 | C |
| 9 | 320 | 7.1 | 19 | J | 4.9 | -3 | 141 | -3.7 | 2.8 | -1.2 | 1 | J |
| 10 | 315 | 6.2 | 16 | J | 4.8 | -4 | 142 | -3.6 | 2.6 | -1.2 | 1 | J |
| 11 | 313 | 7.2 | 0 | C | 4.7 | -9 | 136 | -3.4 | 2.8 | -1.7 | 1 | C |
| 12 | 310 | 7.3 | 0 | C | 4.9 | -12 | 117 | -3.5 | 2.7 | -2.0 | 0 | C |
| 13 | 308 | 7.3 | 0 | C | 4.7 | -9 | 138 | -3.4 | 2.7 | -1.6 | 0 | C |
| 14 | 320 | 6.9 | 21 | J | 4.7 | -5 | 130 | -2.9 | 3.2 | -1.3 | 1 | J |
| 15 | 321 | 5.7 | 13 | J | 4.8 | -13 | 108 | -1.5 | 4.1 | -2.0 | 0 | C |
| 16 | 311 | 6.1 | 0 | C | 5.0 | -31 | 87 | 0.3 | 3.7 | -3.2 | 1 | C |
| 17 | 313 | 5.9 | 0 | C | 5.0 | -33 | 88 | 0.1 | 3.9 | -3.2 | 0 | C |
| 18 | 313 | 5.9 | 18 | J | 4.7 | 3 | 120 | -2.2 | 3.8 | -0.0 | 2 | J |
| 19 | 316 | 5.4 | 20 | J | 5.0 | -4 | 120 | -2.3 | 4.0 | -0.4 | 2 | J |
| 20 | 298 | 5.8 | 0 | C | 5.1 | -20 | 141 | -3.7 | 3.0 | -1.6 | 1 | J |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 300 | 4.7 | 13 | J | 4.9 | -27 | 121 | -2.2 | 3.8 | -1.8 | 1 | J |
| 23 | 297 | 4.9 | 19 | J | 4.7 | -21 | 125 | -2.4 | 3.5 | -1.2 | 1 | J |
| 24 | 303 | 4.5 | 16 | J | 4.5 | -18 | 113 | -1.3 | 3.2 | -0.8 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 280 | 11.2 | 0 | C | 8.1 | -29 | 139 | -5.1 | 4.7 | -3.3 | 2 | J |
| 2 | 277 | 11.2 | 0 | C | 8.7 | -43 | 139 | -4.7 | 4.4 | -5.5 | 1 | C |
| 3 | 284 | 13.6 | 0 | C | 7.6 | -46 | 156 | -4.6 | 2.1 | -5.2 | 2 | C |
| 4 | 284 | 13.6 | 0 | C | 7.2 | -39 | 169 | -5.4 | 0.9 | -4.5 | 1 | C |
| 5 | 287 | 10.9 | 0 | C | 8.0 | -44 | 121 | -2.9 | 4.2 | -5.9 | 1 | C |
| 6 | 286 | 11.1 | 0 | C | 7.6 | -35 | 126 | -3.5 | 4.1 | -4.9 | 2 | C |
| 7 | 282 | 11.2 | 0 | C | 7.9 | -10 | 96 | -0.8 | 7.1 | -3.0 | 1 | C |
| 8 | 284 | 11.0 | 0 | C | 8.1 | 17 | 78 | 1.5 | 7.8 | 0.3 | 1 | C |
| 9 | 291 | 12.2 | 0 | C | 7.4 | 19 | 76 | 1.7 | 7.1 | 0.3 | 1 | J |
| 10 | 302 | 16.7 | 10 | J | 7.5 | 22 | 73 | 2.0 | 7.2 | 0.6 | 1 | J |
| 11 | 288 | 17.6 | 0 | C | 8.2 | 19 | 79 | 1.4 | 7.8 | 0.2 | 2 | C |
| 12 | 284 | 16.4 | 0 | C | 8.4 | 24 | 84 | 0.8 | 8.2 | 0.9 | 1 | C |
| 13 | 279 | 15.7 | 0 | C | 8.1 | 39 | 76 | 1.5 | 7.2 | 3.1 | 1 | C |
| 14 | 311 | 18.9 | 13 | J | 8.9 | 62 | 23 | 3.8 | 3.5 | 7.1 | 1 | J |
| 15 | 388 | 28.7 | 58 | J | 12.7 | 20 | 63 | 4.0 | 8.4 | 1.6 | 9 | J |
| 16 | 297 | 16.2 | 0 | C | 11.6 | 15 | 65 | 3.4 | 7.6 | 1.1 | 8 | C |
| 17 | 370 | 52.3 | 0 | C | 15.4 | -44 | 91 | -0.2 | 7.9 | -9.5 | 8 | C |
| 18 | 398 | 41.8 | 0 | C | 17.3 | 47 | 36 | 9.4 | 7.5 | 12.3 | 1 | C |
| 19 | 396 | 25.5 | 273 | J | 17.5 | -30 | 85 | 1.2 | 13.8 | -8.0 | 7 | J |
| 20 | 406 | 24.6 | 174 | J | 18.9 | -23 | 70 | 5.9 | 16.4 | -6.5 | 3 | J |
| 21 | 406 | 24.6 | 189 | J | 14.3 | 14 | 69 | 4.9 | 12.5 | 4.5 | 2 | J |
| 22 | 405 | 24.7 | 215 | J | 12.2 | 3 | 71 | 3.9 | 11.1 | 1.8 | 3 | J |
| 23 | 397 | 25.8 | 161 | J | 12.2 | 2 | 84 | 1.2 | 11.6 | 1.8 | 3 | J |
| 24 | 413 | 24.4 | 168 | J | 11.7 | 9 | 62 | 5.2 | 9.6 | 2.9 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 325 | 8.2 | 0 | C | 12.4 | 32 | 49 | 6.8 | 7.2 | 7.2 | 2 | C |
| 2 | 297 | 7.4 | 0 | C | 12.1 | 1 | 67 | 4.7 | 11.0 | 1.0 | 1 | J |
| 3 | 379 | 3.5 | 24 | J | 11.1 | 10 | 68 | 3.8 | 9.3 | 2.0 | 4 | J |
| 4 | 373 | 15.1 | 21 | J | 10.5 | -21 | 77 | 2.1 | 9.0 | -3.8 | 3 | J |
| 5 | 401 | 11.3 | 0 | C | 9.7 | -18 | 90 | 0.0 | 8.8 | -3.8 | 2 | J |
| 6 | 376 | 7.5 | 22 | J | 10.6 | -17 | 91 | -0.2 | 9.5 | -4.5 | 1 | J |
| 7 | 387 | 4.6 | 38 | J | 10.7 | 9 | 262 | -1.4 | -9.6 | 3.7 | 2 | J |
| 8 | 383 | 3.7 | 31 | J | 10.9 | 7 | 271 | 0.2 | -9.8 | 3.8 | 3 | J |
| 9 | 395 | 5.4 | 87 | J | 9.2 | -8 | 273 | 0.4 | -8.7 | 1.3 | 3 | J |
| 10 | 389 | 4.4 | 210 | L |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  | 8.9 | 42 | 300 | 3.3 | -3.7 | 7.4 | 0 | J |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  | 8.8 | 11 | 279 | 1.3 | -7.6 | 3.8 | 1 | C |
| 14 |  |  |  |  | 8.5 | 17 | 278 | 1.1 | -6.9 | 4.2 | 2 | C |
| 15 | 414 | 7.8 | 111 | J | 6.7 | 6 | 280 | 0.9 | -4.7 | 1.4 | 5 | J |
| 16 | 414 | 5.7 | 40 | J | 5.9 | 21 | 307 | 3.2 | -3.9 | 2.6 | 2 | J |
| 17 | 403 | 5.3 | 50 | J | 6.0 | 18 | 327 | 4.5 | -2.8 | 2.0 | 2 | J |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 414 | 7.2 | 34 | J | 7.5 | 35 | 292 | 2.2 | -6.0 | 3.4 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 348 | 8.8 | 0 | C | 7.3 | -28 | 301 | 2.9 | -4.5 | -3.7 | 3 | C |
| 2 | 361 | 9.4 | 0 | C | 7.0 | -17 | 258 | -1.2 | -5.6 | -2.3 | 3 | C |
| 3 | 404 | 17.3 | 0 | C | 7.5 | -22 | 296 | 2.5 | -5.1 | -2.6 | 3 | C |
| 4 | 445 | 25.9 | 0 | C | 12.5 | 12 | 312 | 5.1 | -5.7 | 1.6 | 9 | C |
| 5 | 450 | 28.3 | 0 | C | 12.5 | 65 | 300 | 2.1 | -3.0 | 9.2 | 6 | C |
| 6 | 440 | 26.2 | 0 | C | 12.0 | 13 | 285 | 2.7 | -9.5 | 3.6 | 5 | C |
| 7 | 437 | 19.7 | 0 | C | 12.2 | 33 | 349 | 3.3 | -0.2 | 2.3 | 11 | C |
| 8 | 451 | 17.0 | 0 | C | 10.5 | -3 | 60 | 4.5 | 7.6 | -2.3 | 5 | C |
| 9 | 463 | 17.3 | 0 | C | 9.5 | -31 | 253 | -1.9 | -7.1 | -2.2 | 5 | C |
| 10 | 480 | 1 .4 | 193 | J | 11.0 | 65 | 1 | 4.7 | 2.9 | 9.5 | 0 | J |
| 11 | 485 | 10.4 | 206 | J | 10.6 | 63 | 9 | 4.7 | 3.4 | 8.7 | 2 | J |
| 12 | 497 | 11.7 | 0 | C | 8.9 | 36 | 358 | 7.0 | 1.1 | 5.0 | 0 | C |
| 13 | 512 | 11.2 | 0 | C | 9.5 | -49 | 97 | -0.7 | 3.7 | -7.6 | 4 | C |
| 14 | 528 | 7.8 | 192 | J | 9.4 | -44 | 232 | -4.2 | -6.6 | -5.2 | 1 | J |
| 15 | 531 | 8.1 | 183 | J | 9.2 | -50 | 201 | -5.4 | -3.2 | -6.4 | 2 | J |
| 16 | 517 | 9.2 | 201 | J | 6.6 | -44 | 210 | -3.9 | -2.8 | -4.1 | 2 | J |
| 17 | 510 | 10.4 | 0 | C | 6.6 | -32 | 197 | -5.3 | -1.8 | -3.3 | 1 | C |
| 18 | 490 | 10.7 | 0 | C | 5.9 | -62 | 243 | -1.1 | -2.3 | -4.6 | 2 | C |
| 19 | 494 | 9.7 | 136 | J | 6.3 | -49 | 223 | -2.1 | -1.8 | -3.3 | 5 | J |
| 20 | 488 | 9.5 | 119 | J | 7.2 | -47 | 264 | -0.5 | -4.3 | -5.4 | 2 | J |
| 21 | 495 | 9.9 | 125 | J | 7.3 | -47 | 183 | -4.7 | 0.3 | -5.0 | 2 | J |
| 22 | 475 | 11.1 | 120 | J | 6.9 | -50 | 221 | -3.1 | -2.0 | -5.2 | 3 | J |
| 23 | 471 | 10.6 | 106 | J | 8.1 | -60 | 210 | -3.5 | -1.0 | -7.1 | 1 | J |
| 24 | 443 | 12.5 | 0 | C | 5.9 | 51 | 334 | 2.0 | -1.4 | 2.6 | 4 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 291 | 4.2 | 23 | J | 4.5 | -9 | 151 | -3.5 | 2.0 | -0.5 | 2 | J |
| 2 | 298 | 5.6 | 0 | C | 5.0 | -13 | 163 | -4.6 | 1.5 | -1.0 | 1 | C |
| 3 | 296 | 3.8 | 26 | J | 5.1 | -21 | 143 | -3.7 | 2.8 | -1.8 | 1 | J |
| 4 | 295 | 4.1 | 28 | J | 5.1 | -1 | 133 | -3.3 | 3.5 | -0.3 | 2 | J |
| 5 | 297 | 3.9 | 22 | J | 5.0 | 4 | 137 | -3.6 | 3.4 | -0.0 | 1 | J |
| 6 | 296 | 5.6 | 0 | C | 5.2 | 14 | 133 | -3.3 | 3.7 | 0.6 | 1 | C |
| 7 | 293 | 5.3 | 0 | C | 5.2 | 25 | 113 | -1.8 | 4.7 | 1.1 | 1 | C |
| 8 | 294 | 5.8 | 0 | C | 5.3 | 5 | 134 | -3.4 | 3.4 | -0.5 | 2 | C |
| 9 | 295 | 6.6 | 0 | C | 5.0 | -10 | 105 | -1.2 | 3.9 | -2.1 | 1 | C |
| 10 | 299 | 7.0 | 0 | C | 5.3 | -10 | 97 | -0.5 | 3.7 | -2.0 | 3 | C |
| 11 | 297 | 6.2 | 0 | C | 5.6 | 1 | 101 | -1.0 | 4.9 | -1.5 | 2 | C |
| 12 | 290 | 5.3 | 0 | C | 5.8 | 11 | 116 | -2.5 | 5.1 | -0.5 | 0 | C |
| 13 | 274 | 5.8 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 271 | 3.5 | 12 | J | 5.7 | -7 | 147 | -4.7 | 2.8 | -1.4 | 1 | J |
| 15 | 271 | 3.6 | 12 | J | 5.9 | -7 | 154 | -5.1 | 2.3 | -1.2 | 1 | J |
| 16 | 270 | 6.0 | 0 | C | 5.9 | -24 | 157 | -4.9 | 1.7 | -2.7 | 1 | J |
| 17 | 295 | 4.8 | 14 | J | 5.7 | -26 | 112 | -1.9 | 4.4 | -2.9 | 1 | J |
| 18 | 302 | 5.1 | 11 | J | 5.7 | -17 | 104 | -1.3 | 5.2 | -2.0 | 1 | J |
| 19 | 296 | 5.9 | 10 | J | 5.6 | 10 | 80 | 0.9 | 5.3 | 0.9 | 1 | J |
| 20 | 290 | 6.6 | 12 | J | 5.3 | 14 | 83 | 0.6 | 4.6 | 1.3 | 2 | J |
| 21 | 276 | 6.2 | 12 | J | 5.0 | -33 | 160 | -3.9 | 1.6 | -2.6 | 1 | J |
| 22 | 290 | 8.7 | 14 | J | 6.9 | -38 | 141 | -4.1 | 3.7 | -3.8 | 2 | J |
| 23 | 283 | 10.8 | 0 | C | 7.8 | -29 | 141 | -5.0 | 4.4 | -3.1 | 3 | J |
| 24 | 284 | 12.2 | 0 | C | 8.3 | -27 | 149 | -6.2 | 4.1 | -3.3 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 30.2 | 0 | C | 12.2 | 8 | 37 | 7.7 | 5.7 | 2.0 | 6 | C |
| 2 | 395 | 30.3 | 0 | C | 11.9 | 5 | 75 | 3.0 | 10.7 | 1.8 | 3 | C |
| 3 | 370 | 29.4 | 0 | C | 12.3 | 6 | 98 | -1.6 | 11.9 | 1.6 | 2 | C |
| 4 | 363 | 28.4 | 0 | C | 10.9 | 6 | 82 | 1.3 | 9.2 | 0.7 | 6 | J |
| 5 | 373 | 24.0 | 111 | J | 10.7 | -1 | 86 | 0.6 | 8.4 | -1.0 | 7 | J |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  | 10.4 | -12 | 89 | 0.2 | 9.5 | -4.3 | 1 | J |
| 8 | 367 | 23.3 | 92 | J | 10.8 | 6 | 84 | 1.1 | 10.2 | -1.6 | 3 | J |
| 9 | 368 | 23.2 | 93 | J |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 375 | 29.3 | 41 | J | 8.1 | -11 | 43 | 5.7 | 5.4 | -1.2 | 1 | J |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 352 | 8.8 | 42 | J | 10.2 | 16 | 42 | 7.1 | 6.0 | 3.4 | 3 | J |
| 23 | 355 | 4.5 | 17 | J | 11.6 | 24 | 52 | 6.5 | 7.6 | 5.7 | 1 | J |
| 24 | 364 | 4.0 | 20 | J | 12.0 | 29 | 49 | 6.8 | 7.0 | 6.6 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  | 6.6 | -34 | 251 | -1.7 | -4.6 | -3.9 | 2 | J |
| 3 | 413 | 8.7 | 44 | J | 6.0 | -29 | 253 | -1.4 | -4.3 | -2.7 | 3 | J |
| 4 | 389 | 10.2 | 103 | J | 5.0 | 38 | 346 | 2.8 | -0.7 | 2.3 | 3 | J |
| 5 | 390 | 9.1 | 119 | J | 5.3 | 44 | 358 | 3.2 | 0.1 | 3.1 | 3 | J |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 425 | 8.7 | 70 | J | 5.7 | 54 | 138 | -2.2 | 2.8 | 3.7 | 2 | J |
| 8 | 412 | 8.7 | 55 | J | 5.9 | 80 | 10 | 0.8 | 1.3 | 4.6 | 3 | J |
| 9 | 395 | 9.0 | 69 | J | 6.2 | 44 | 312 | 2.8 | -1.9 | 4.7 | 2 | J |
| 10 | 409 | 8.9 | 57 | J | 6.3 | 33 | 263 | -0.6 | -3.6 | 4.3 | 2 | J |
| 11 | 410 | 8.3 | 49 | J | 6.0 | 8 | 257 | -1.2 | -4.7 | 2.2 | 3 | J |
| 12 | 383 | 8.8 | 44 | J | 6.2 | 53 | 343 | 3.0 | 0.3 | 4.3 | 3 | J |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 385 | 8.3 | 43 | J | 6.8 | 19 | 292 | 2.3 | -5.1 | 3.3 | 2 | J |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 382 | 8.7 | 32 | J | 6.8 | -30 | 252 | -1.8 | -5.7 | -2.9 | 2 | J |
| 18 | 356 | 10.4 | 0 | C | 7.0 | -17 | 256 | -1.6 | -6.2 | -1.8 | 2 | C |
| 19 | 372 | 8.6 | 26 | J | 6.8 | 23 | 273 | 0.3 | -5.4 | 2.1 | 3 | J |
| 20 | 358 | 9.1 | 0 | C | 6.9 | 16 | 268 | -0.2 | -6.7 | 1.5 | 1 | J |
| 21 | 351 | 8.5 | 0 | C | 7.1 | 15 | 266 | -0.4 | -5.9 | 1.0 | 3 | C |
| 22 | 369 | 7.1 | 41 | J | 7.2 | 21 | 276 | 0.7 | -6.8 | 1.7 | 2 | J |
| 23 | 363 | 7.0 | 42 | J | 7.0 | 15 | 292 | 2.3 | -5.9 | 0.8 | 3 | J |
| 24 | 358 | 9.0 | 0 | C | 7.6 | -21 | 280 | 1.0 | -5.1 | -2.8 | 4 | C |

DEC. 13, 1981

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 445 | 15.1 | 0 | C | 7.2 | 41 | 265 | -0.3 | -4.7 | 3.2 | 4 | C |
| 2 | 454 | 14.3 | 0 | C | 7.8 | -25 | 230 | -4.3 | -4.7 | -3.6 | 3 | C |
| 3 | 455 | 13.1 | 0 | C | 8.3 | -29 | 227 | -4.5 | -4.6 | -3.9 | 3 | C |
| 4 | 472 | 11.2 | 101 | L | 8.9 | -34 | 226 | -4.7 | -4.8 | -4.5 | 2 | J |
| 5 | 468 | 13.2 | 0 | C | 8.7 | -38 | 212 | -5.7 | -3.8 | -5.0 | 2 | C |
| 6 | 472 | 13.8 | 0 | C | 8.4 | -43 | 177 | -6.1 | -0.4 | -5.7 | 1 | C |
| 7 | 447 | 12.3 | 0 | C | 9.2 | -52 | 210 | -4.5 | -3.7 | -6.0 | 4 | C |
| 8 | 430 | 12.0 | 0 | C | 8.5 | -26 | 255 | -2.0 | -7.8 | -1.9 | 1 | C |
| 9 | 429 | 12.0 | 0 | C | 8.1 | -12 | 265 | -0.7 | -7.2 | 0.4 | 3 | C |
| 10 | 426 | 11.3 | 0 | C | 8.1 | -15 | 262 | -1.0 | -7.0 | 0.0 | 4 | C |
| 11 | 460 | 12.9 | 0 | C | 7.2 | -36 | 155 | -4.2 | 1.0 | -3.8 | 4 | C |
| 12 | 458 | 12.0 | 0 | C | 8.0 | -29 | 153 | -6.2 | 2.0 | -4.6 | 1 | C |
| 13 | 444 | 11.0 | 0 | C | 8.2 | -25 | 163 | -7.1 | 1.2 | -3.9 | 1 | C |
| 14 | 431 | 9.8 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 417 | 7.8 | 0 | C | 8.0 | -22 | 197 | -7.1 | -2.6 | -2.7 | 0 | C |
| 16 | 416 | 7.0 | 0 | C | 7.9 | -22 | 208 | -6.5 | -3.7 | -2.5 | 1 | C |
| 17 | 411 | 7.0 | 0 | C | 7.0 | -20 | 208 | -5.8 | -3.2 | -2.2 | 1 | C |
| 18 | 393 | 6.8 | 0 | C | 7.0 | -17 | 216 | -5.3 | -3.8 | -2.0 | 1 | C |
| 19 | 374 | 6.6 | 0 | C | 6.8 | -7 | 230 | -4.4 | -5.2 | -1.0 | 0 | C |
| 20 | 366 | 7.0 | 0 | C | 6.5 | 1 | 236 | -3.6 | -5.2 | -0.4 | 1 | C |
| 21 | 361 | 7.2 | 0 | C | 6.5 | -3 | 217 | -5.1 | -3.8 | -0.8 | 0 | C |
| 22 | 350 | 7.0 | 0 | C | 6.3 | -4 | 218 | -4.9 | -3.8 | -1.0 | 0 | C |
| 23 | 350 | 6.8 | 0 | C | 6.1 | 1 | 224 | -4.4 | -4.2 | -0.6 | 0 | C |
| 24 | 353 | 7.4 | 0 | C | 6.2 | -2 | 233 | -3.7 | -4.8 | -0.9 | 1 | C |

12/14/81 – 12/21/81

DEC. 14, 1981 348

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 8.3 | 0 | C | 5.7 | -3 | 236 | -3.1 | -4.6 | -0.9 | 1 | C |
| 2 | 451 | 4.6 | 0 | C | 5.3 | 23 | 221 | -3.2 | -3.0 | 1.5 | 2 | C |
| 3 | 485 | 2.5 | 0 | C | 5.2 | 41 | 188 | -3.6 | -0.7 | 3.2 | 2 | C |
| 4 | 355 | 2.3 | 0 | C | 5.4 | -4 | 221 | -4.0 | -3.5 | -0.3 | 1 | C |
| 5 | 355 | 2.3 | 0 | C | 5.7 | -21 | 238 | -2.6 | -4.3 | -1.7 | 2 | C |
| 6 | 335 | 6.2 | 0 | C | 5.5 | -37 | 271 | 0.1 | -4.6 | -2.7 | 1 | C |
| 7 | 342 | 6.3 | 0 | C | 5.5 | -29 | 263 | -0.5 | -5.1 | -1.8 | 0 | C |
| 8 | 334 | 6.1 | 0 | C | 5.5 | -32 | 265 | -0.4 | -5.0 | -1.8 | 1 | C |
| 9 | 340 | 6.5 | 0 | C | 5.6 | -37 | 267 | -0.2 | -5.1 | -2.1 | 1 | C |
| 10 | 335 | 6.3 | 0 | C | 5.7 | -34 | 274 | 0.3 | -5.3 | -1.7 | 1 | C |
| 11 | 316 | 5.9 | 0 | C | 5.6 | -24 | 268 | -0.2 | -5.5 | -0.8 | 1 | C |
| 12 | 308 | 5.9 | 0 | C | 5.6 | -22 | 259 | -1.0 | -5.4 | -0.7 | 0 | C |
| 13 | 329 | 7.2 | 0 | C | 5.5 | -24 | 252 | -1.6 | -5.1 | -1.0 | 0 | C |
| 14 | 324 | 6.8 | 0 | C | 5.8 | -28 | 244 | -2.2 | -4.9 | -1.7 | 1 | C |
| 15 | 338 | 7.1 | 0 | C | 6.1 | -12 | 279 | 0.9 | -6.0 | -0.3 | 1 | C |
| 16 | 359 | 8.1 | 0 | C | 6.2 | -11 | 281 | 1.2 | -6.1 | -0.5 | 0 | C |
| 17 | 376 | 7.9 | 0 | C |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | 372 | 10.1 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 372 | 10.1 | 0 | C | 4.3 | -5 | 302 | 2.1 | -3.3 | -0.6 | 2 | C |
| 21 | 369 | 11.6 | 0 | C |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | 374 | 6.7 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 374 | 6.7 | 0 | C | 7.0 | -12 | 293 | 2.4 | -5.5 | -2.3 | 3 | C |

DEC. 15, 1981 349

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 7.1 | 0 | C | 6.2 | 50 | 327 | 3.1 | -2.6 | 4.0 | 2 | C |
| 2 | 375 | 7.0 | 0 | C | 5.9 | 49 | 325 | 1.8 | -1.5 | 2.3 | 4 | C |
| 3 | 373 | 7.1 | 0 | C | 6.2 | 56 | 347 | 2.9 | -1.0 | 4.4 | 3 | C |
| 4 | 369 | 7.3 | 0 | C | 6.0 | -9 | 332 | 5.1 | -2.7 | -0.9 | 1 | C |
| 5 | 372 | 7.6 | 0 | C | 6.8 | -4 | 302 | 2.9 | -4.6 | -0.2 | 4 | C |
| 6 | 368 | 7.7 | 0 | C | 6.2 | -5 | 45 | 3.4 | 3.4 | -0.8 | 3 | C |
| 7 | 367 | 7.6 | 0 | C | 6.1 | 9 | 56 | 2.9 | 4.4 | 0.1 | 3 | C |
| 8 | 356 | 7.5 | 0 | C | 6.0 | 6 | 334 | 4.6 | -2.1 | 1.0 | 3 | C |
| 9 | 353 | 7.2 | 0 | C | 6.3 | -18 | 299 | 2.7 | -5.2 | -0.6 | 2 | C |
| 10 | 356 | 6.9 | 0 | C | 6.5 | -11 | 289 | 2.0 | -6.0 | 0.4 | 1 | C |
| 11 | 355 | 6.7 | 0 | C | 6.5 | 5 | 293 | 2.4 | -5.4 | 2.0 | 2 | C |
| 12 | 345 | 6.4 | 0 | C | 6.8 | 12 | 293 | 2.6 | -5.4 | 2.8 | 1 | C |
| 13 | 339 | 6.1 | 0 | C | 6.7 | 12 | 321 | 5.0 | -3.7 | 2.3 | 1 | C |
| 14 | 338 | 6.2 | 0 | C | 6.7 | 13 | 306 | 3.6 | -4.6 | 2.4 | 2 | C |
| 15 | 337 | 6.5 | 0 | C | 6.7 | 18 | 325 | 5.2 | -3.3 | 2.6 | 0 | C |
| 16 | 340 | 6.6 | 0 | C | 6.6 | 20 | 335 | 5.5 | -2.3 | 2.5 | 1 | C |
| 17 | 336 | 6.8 | 0 | C | 7.2 | 12 | 321 | 5.4 | -4.3 | 1.7 | 1 | C |
| 18 | 337 | 6.9 | 0 | C | 7.3 | 28 | 340 | 5.8 | -2.1 | 3.2 | 2 | C |
| 19 | 341 | 6.9 | 0 | C | 7.2 | 42 | 356 | 5.3 | -0.7 | 4.8 | 1 | C |
| 20 | 360 | 6.7 | 0 | C | 7.6 | -15 | 285 | 1.4 | -5.1 | -2.0 | 5 | C |
| 21 | 382 | 7.5 | 0 | C | 8.7 | -25 | 271 | 0.1 | -7.2 | -4.6 | 1 | C |
| 22 | 385 | 7.6 | 0 | C | 11.5 | 1 | 280 | 1.9 | -11.0 | -1.5 | 2 | C |
| 23 | 372 | 6.9 | 0 | C | 12.1 | 21 | 294 | 4.4 | -10.4 | 2.4 | 3 | C |
| 24 | 379 | 7.7 | 0 | C | 12.0 | 49 | 309 | 4.8 | -7.4 | 7.7 | 2 | C |

DEC. 16, 1981 350

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 8.8 | 0 | C | 11.1 | 77 | 303 | 1.3 | -3.6 | 10.0 | 2 | C |
| 2 | 380 | 9.4 | 0 | C | 10.4 | 74 | 35 | 2.1 | 0.4 | 9.0 | 4 | C |
| 3 | 375 | 10.2 | 0 | C | 9.5 | 64 | 338 | 3.7 | -2.2 | 8.3 | 1 | C |
| 4 | 380 | 11.1 | 0 | C | 9.0 | 70 | 327 | 2.6 | -1.8 | 8.4 | 1 | C |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 376 | 6.1 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 376 | 6.1 | 0 | C | 6.9 | 12 | 80 | 0.8 | 4.6 | 0.1 | 5 | C |
| 9 | 377 | 4.9 | 0 | C | 7.1 | -2 | 77 | 1.0 | 4.0 | -1.2 | 5 | C |
| 10 | 381 | 4.2 | 0 | C | 6.6 | -36 | 283 | 1.1 | -5.8 | -2.4 | 2 | C |
| 11 | 373 | 4.9 | 0 | C | 6.9 | -14 | 312 | 4.4 | -5.1 | -0.4 | 1 | C |
| 12 | 359 | 4.9 | 0 | C | 7.2 | -12 | 321 | 5.5 | -4.6 | -0.3 | 0 | C |
| 13 | 343 | 5.1 | 0 | C | 6.9 | -1 | 322 | 5.3 | -4.2 | 0.8 | 1 | C |
| 14 | 346 | 4.9 | 0 | C | 6.9 | 1 | 312 | 4.6 | -4.9 | 1.1 | 0 | C |
| 15 | 335 | 4.5 | 0 | C | 6.9 | 9 | 314 | 4.7 | -4.7 | 1.8 | 1 | C |
| 16 | 313 | 4.8 | 0 | C | 6.7 | 17 | 312 | 4.3 | -4.5 | 2.4 | 1 | C |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 354 | 10.3 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 350 | 10.0 | 43 | J | 4.1 | 40 | 344 | 2.8 | -1.0 | 2.4 | 1 | C |
| 20 | 351 | 11.2 | 36 | J | 3.4 | 44 | 356 | 1.9 | -0.3 | 1.9 | 2 | J |
| 21 | 304 | 5.3 | 13 | J | 4.4 | 23 | 348 | 3.9 | -1.1 | 1.6 | 1 | C |
| 22 | 319 | 6.4 | 25 | J | 5.1 | -16 | 146 | -3.3 | 2.4 | -0.8 | 2 | J |
| 23 | 308 | 6.5 | 0 | C | 4.8 | -17 | 149 | -3.6 | 2.3 | -0.9 | 2 | C |
| 24 | 338 | 6.7 | 21 | J | 4.8 | 52 | 122 | -1.4 | 1.6 | 3.8 | 2 | C |

DEC. 17, 1981 351

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 323 | 6.5 | 0 | C | 3.0 | 81 | 283 | 0.1 | -0.9 | 2.8 | 1 | J |
| 2 | 335 | 17.1 | 13 | J | 2.1 | 25 | 281 | 0.3 | -1.9 | 0.6 | 1 | J |
| 3 | 364 | 12.1 | 0 | C | 2.0 | 2 | 279 | 0.3 | -2.0 | -0.1 | 0 | J |
| 4 | 364 | 12.5 | 0 | C | 1.6 | 41 | 283 | 0.3 | -1.1 | 1.0 | 0 | C |
| 5 | 363 | 12.9 | 0 | C | 2.0 | 69 | 294 | 0.2 | -0.5 | 1.6 | 1 | C |
| 6 | 364 | 14.2 | 0 | C | 1.9 | 58 | 13 | 0.5 | 0.2 | 0.9 | 2 | C |
| 7 | 330 | 20.2 | 13 | J | 2.8 | -16 | 48 | 1.7 | 1.7 | -1.0 | 1 | J |
| 8 | 324 | 19.7 | 15 | J | 2.3 | 48 | 237 | -0.6 | -0.6 | 1.3 | 2 | J |
| 9 | 320 | 18.4 | 17 | J | 2.5 | 29 | 201 | -2.0 | -0.5 | 1.3 | 1 | J |
| 10 | 322 | 18.5 | 16 | J | 2.8 | 22 | 207 | -2.1 | -0.8 | 1.2 | 1 | J |
| 11 | 312 | 19.9 | 13 | J | 2.7 | 26 | 195 | -2.3 | -0.3 | 1.3 | 1 | J |
| 12 | 339 | 15.9 | 0 | C | 3.1 | 8 | 203 | -2.5 | -0.9 | 0.6 | 1 | J |
| 13 | 313 | 23.2 | 13 | J | 3.3 | 8 | 204 | -2.8 | -1.1 | 0.7 | 1 | J |
| 14 | 300 | 19.1 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 300 | 19.1 | 0 | C | 3.9 | -1 | 201 | -3.6 | -1.4 | 0.1 | 0 | C |
| 16 | 305 | 30.0 | 10 | J | 5.2 | -35 | 178 | -4.2 | -0.1 | -2.9 | 1 | J |
| 17 | 307 | 31.4 | 12 | J | 4.6 | 6 | 208 | -2.1 | -1.1 | 0.3 | 4 | J |
| 18 | 311 | 38.2 | 22 | J | 4.3 | 52 | 265 | -0.2 | -2.3 | 2.9 | 2 | J |
| 19 | 314 | 42.3 | 29 | J | 4.4 | -41 | 179 | -3.0 | 0.2 | -2.6 | 2 | J |
| 20 | 322 | 35.1 | 32 | J | 7.3 | -20 | 209 | -5.7 | -2.9 | -2.7 | 2 | J |
| 21 |  |  |  |  | 8.5 | -27 | 206 | -6.8 | -2.7 | -4.3 | 0 | J |
| 22 | 341 | 16.9 | 23 | J | 12.2 | -61 | 158 | -5.4 | 3.9 | -10.0 | 2 | J |
| 23 | 339 | 18.1 | 21 | J | 12.3 | -72 | 175 | -3.8 | 2.5 | -11.3 | 1 | J |
| 24 | 333 | 21.8 | 31 | J | 12.3 | -60 | 217 | -4.7 | -1.6 | -10.6 | 4 | J |

DEC. 18, 1981 352

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 339 | 21.5 | 42 | J | 9.7 | -13 | 257 | -1.8 | -7.3 | -3.1 | 6 | J |
| 2 | 335 | 9.2 | 101 | J | 9.3 | 3 | 96 | -0.8 | 7.9 | 1.5 | 6 | J |
| 3 | 361 | 9.2 | 197 | J | 8.8 | 34 | 176 | -5.4 | 0.0 | 3.7 | 6 | J |
| 4 | 339 | 13.8 | 0 | C | 8.9 | -16 | 134 | -5.7 | 5.9 | -2.2 | 2 | C |
| 5 | 360 | 9.3 | 106 | J | 10.2 | -32 | 191 | -7.1 | -1.5 | -4.5 | 6 | J |
| 6 | 340 | 7.9 | 65 | J | 10.1 | -25 | 168 | -8.4 | 1.4 | -4.2 | 3 | J |
| 7 | 344 | 11.3 | 157 | J | 9.3 | -23 | 134 | -5.6 | 5.3 | -4.2 | 3 | J |
| 8 | 342 | 8.6 | 75 | J | 9.5 | -3 | 123 | -4.9 | 7.3 | -1.9 | 3 | J |
| 9 | 361 | 9.4 | 98 | J | 9.6 | -18 | 115 | -3.3 | 6.4 | -4.1 | 5 | J |
| 10 | 337 | 10.4 | 0 | C | 9.4 | -8 | 118 | -4.2 | 7.5 | -3.2 | 1 | C |
| 11 | 359 | 9.8 | 0 | C | 9.1 | -30 | 107 | -1.6 | 4.2 | -4.2 | 6 | C |
| 12 | 355 | 10.1 | 0 | C | 8.7 | -6 | 109 | -2.2 | 6.0 | -2.1 | 5 | C |
| 13 | 344 | 9.8 | 0 | C | 9.1 | 11 | 124 | -4.6 | 7.0 | 0.1 | 3 | C |
| 14 | 335 | 7.9 | 85 | J | 8.6 | -2 | 134 | -4.3 | 4.4 | -1.0 | 6 | J |
| 15 | 354 | 8.6 | 0 | C | 8.4 | 8 | 157 | -5.1 | 2.3 | 0.5 | 6 | J |
| 16 | 356 | 9.0 | 0 | C | 8.9 | 7 | 142 | -6.7 | 5.2 | 0.5 | 2 | C |
| 17 | 359 | 4.9 | 116 | L | 8.7 | -22 | 111 | -2.8 | 7.2 | -3.4 | 2 | J |
| 18 | 363 | 7.4 | 73 | J | 8.2 | -42 | 116 | -2.3 | 4.8 | -4.6 | 4 | J |
| 19 | 375 | 6.0 | 59 | J | 6.6 | -12 | 138 | -3.6 | 3.3 | -0.8 | 4 | J |
| 20 | 387 | 6.0 | 50 | J | 6.4 | 8 | 114 | -1.9 | 4.1 | 1.1 | 4 | J |
| 21 | 367 | 6.9 | 0 | C | 6.8 | 2 | 180 | -6.6 | -0.1 | 0.3 | 1 | C |
| 22 | 391 | 6.3 | 47 | J | 6.5 | -16 | 106 | -1.4 | 5.1 | -0.6 | 4 | J |
| 23 | 369 | 6.1 | 63 | J | 6.2 | -3 | 136 | -3.0 | 2.9 | 0.3 | 4 | J |
| 24 | 374 | 6.4 | 49 | J | 6.6 | 2 | 121 | -2.5 | 4.0 | 1.0 | 5 | J |

DEC. 19, 1981 353

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 6.3 | 39 | J | 6.8 | -30 | 101 | -1.1 | 6.1 | -2.3 | 2 | J |
| 2 | 372 | 6.8 | 39 | J | 6.7 | 24 | 126 | -3.2 | 4.0 | 3.1 | 3 | J |
| 3 | 362 | 6.2 | 44 | J | 6.7 | -30 | 149 | -4.5 | 3.0 | -2.7 | 3 | J |
| 4 | 365 | 6.6 | 45 | J | 6.8 | -7 | 128 | -3.5 | 4.6 | -0.5 | 3 | J |
| 5 | 374 | 6.9 | 0 | C | 6.9 | -41 | 111 | -1.8 | 4.6 | -4.4 | 1 | C |
| 6 | 370 | 7.2 | 0 | C | 6.9 | -13 | 108 | -1.7 | 5.2 | -1.7 | 3 | C |
| 7 | 373 | 7.6 | 0 | C | 6.1 | -23 | 151 | -4.3 | 2.1 | -2.4 | 3 | C |
| 8 | 372 | 7.5 | 0 | C | 6.3 | -17 | 154 | -5.4 | 2.2 | -2.2 | 1 | C |
| 9 | 368 | 6.9 | 63 | J | 6.0 | -21 | 147 | -4.6 | 2.5 | -2.7 | 1 | J |
| 10 | 362 | 4.9 | 110 | L | 5.9 | -5 | 131 | -3.6 | 3.9 | -1.4 | 2 | J |
| 11 | 369 | 7.4 | 0 | C | 6.3 | -36 | 122 | -2.3 | 2.8 | -3.9 | 3 | C |
| 12 | 368 | 7.6 | 0 | C | 6.3 | 9 | 98 | -0.9 | 6.1 | -0.4 | 1 | J |
| 13 | 380 | 6.9 | 45 | J | 6.2 | 20 | 97 | -0.6 | 4.8 | 0.7 | 4 | J |
| 14 | 366 | 7.4 | 0 | C | 5.8 | 19 | 161 | -4.3 | 1.7 | 1.3 | 3 | J |
| 15 | 362 | 6.9 | 72 | J | 5.5 | -34 | 173 | -3.9 | 0.1 | -2.7 | 3 | J |
| 16 | 365 | 7.7 | 0 | C | 5.9 | -11 | 108 | -1.7 | 5.1 | -1.4 | 1 | C |
| 17 | 349 | 10.1 | 0 | C | 6.0 | -4 | 113 | -2.1 | 4.9 | -0.5 | 2 | C |
| 18 | 362 | 7.5 | 0 | C | 5.9 | -3 | 116 | -2.0 | 4.0 | -0.2 | 3 | C |
| 19 | 365 | 6.8 | 29 | J | 6.6 | 15 | 112 | -2.3 | 5.5 | 2.1 | 2 | J |
| 20 | 360 | 6.5 | 22 | J | 6.6 | 18 | 110 | -2.0 | 5.3 | 2.6 | 2 | J |
| 21 | 358 | 7.1 | 0 | C | 6.8 | -2 | 126 | -3.9 | 5.3 | 0.7 | 1 | C |
| 22 | 337 | 6.5 | 16 | J | 6.4 | -35 | 174 | -4.6 | 1.1 | -3.1 | 3 | J |
| 23 |  |  |  |  | 6.1 | -7 | 134 | -3.4 | 3.6 | 0.1 | 3 | J |
| 24 | 358 | 8.5 | 0 | C | 5.8 | 17 | 87 | 0.2 | 4.2 | 2.3 | 3 | J |

DEC. 20, 1981 354

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 7.8 | 41 | J | 5.4 | -42 | 128 | -2.3 | 3.5 | -2.8 | 2 | J |
| 2 | 355 | 8.9 | 0 | C | 5.6 | -29 | 145 | -3.7 | 2.9 | -2.0 | 2 | J |
| 3 | 369 | 8.7 | 29 | J | 5.7 | -13 | 117 | -2.3 | 4.5 | -0.7 | 3 | J |
| 4 | 372 | 9.3 | 20 | J | 5.2 | 2 | 130 | -2.2 | 2.6 | 0.3 | 4 | J |
| 5 | 350 | 7.9 | 48 | J | 5.4 | 38 | 162 | -3.3 | 1.1 | 2.7 | 3 | J |
| 6 | 346 | 9.1 | 0 | C | 5.8 | 3 | 129 | -3.6 | 4.5 | -0.0 | 0 | J |
| 7 | 349 | 9.1 | 0 | C | 5.8 | 2 | 105 | -1.2 | 4.6 | -0.4 | 3 | C |
| 8 | 350 | 9.2 | 0 | C | 5.8 | -43 | 107 | -1.0 | 2.7 | -3.7 | 3 | C |
| 9 | 361 | 6.4 | 34 | J | 5.5 | -32 | 230 | -2.7 | -3.6 | -1.9 | 2 | J |
| 10 | 355 | 8.3 | 31 | J | 5.2 | -12 | 236 | -2.1 | -3.2 | -0.1 | 4 | J |
| 11 | 338 | 9.5 | 0 | C | 5.7 | -22 | 193 | -4.6 | -1.4 | -1.6 | 2 | C |
| 12 | 336 | 9.6 | 0 | C | 5.9 | 14 | 166 | -5.5 | 1.7 | 1.0 | 1 | C |
| 13 | 332 | 9.5 | 0 | C | 5.9 | -22 | 157 | -4.8 | 1.6 | -2.4 | 1 | C |
| 14 | 332 | 9.6 | 0 | C | 6.0 | -27 | 170 | -4.9 | 0.4 | -2.6 | 2 | C |
| 15 | 337 | 9.7 | 0 | C | 5.9 | -35 | 199 | -4.2 | -1.8 | -2.9 | 2 | C |
| 16 | 336 | 10.0 | 0 | C | 5.9 | -24 | 195 | -4.6 | -1.4 | -2.0 | 3 | C |
| 17 | 330 | 8.3 | 28 | J | 5.9 | 6 | 150 | -4.6 | 2.6 | 0.5 | 3 | J |
| 18 | 347 | 8.1 | 28 | J | 6.0 | -18 | 146 | -3.3 | 2.3 | -1.2 | 4 | J |
| 19 | 353 | 8.7 | 29 | J | 6.0 | -34 | 106 | -1.1 | 4.0 | -2.3 | 4 | J |
| 20 | 338 | 8.2 | 26 | J | 6.1 | -53 | 185 | -3.2 | 0.3 | -4.2 | 3 | J |
| 21 | 329 | 10.2 | 0 | C | 6.1 | -8 | 201 | -5.3 | -1.8 | -1.1 | 2 | C |
| 22 | 334 | 9.0 | 21 | J | 6.2 | -27 | 143 | -4.1 | 3.5 | -1.9 | 2 | J |
| 23 | 344 | 9.2 | 24 | J | 6.3 | 1 | 108 | -1.7 | 5.2 | 1.2 | 3 | J |
| 24 | 336 | 8.7 | 24 | J | 6.1 | -30 | 181 | -4.3 | 0.4 | -2.5 | 3 | J |

DEC. 21, 1981 355

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 324 | 9.3 | 24 | J | 6.1 | 15 | 210 | -4.8 | -3.0 | 0.9 | 2 | J |
| 2 | 319 | 10.6 | 0 | C | 6.3 | 20 | 194 | -5.3 | -1.6 | 1.7 | 2 | J |
| 3 | 326 | 11.0 | 0 | C | 6.1 | 17 | 187 | -5.1 | -0.8 | 1.5 | 3 | J |
| 4 | 322 | 11.3 | 0 | C | 6.6 | 1 | 89 | 0.1 | 6.4 | 0.5 | 2 | J |
| 5 | 340 | 10.3 | 37 | J | 6.1 | 7 | 104 | -1.2 | 4.8 | 0.6 | 3 | J |
| 6 | 323 | 11.9 | 0 | C | 6.3 | 37 | 146 | -3.3 | 2.4 | 2.8 | 3 | C |
| 7 | 338 | 11.1 | 24 | J | 6.2 | -22 | 238 | -3.0 | -5.0 | -1.7 | 1 | J |
| 8 | 321 | 12.5 | 0 | C | 6.5 | -16 | 228 | -4.1 | -4.8 | -1.0 | 1 | C |
| 9 | 328 | 11.5 | 24 | J | 7.1 | 22 | 128 | -4.0 | 5.5 | 1.6 | 1 | J |
| 10 | 335 | 11.9 | 18 | J | 6.7 | 29 | 105 | -1.3 | 5.4 | 1.7 | 3 | J |
| 11 | 335 | 10.8 | 22 | J | 6.4 | -14 | 109 | -1.8 | 4.9 | -2.5 | 3 | J |
| 12 | 338 | 11.1 | 17 | J | 6.4 | 14 | 84 | 0.6 | 6.2 | 0.2 | 2 | J |
| 13 | 327 | 11.7 | 0 | C | 6.8 | 3 | 123 | -3.6 | 5.5 | -0.8 | 1 | C |
| 14 | 323 | 11.2 | 0 | C | 7.0 | -35 | 174 | -5.1 | -0.0 | -3.6 | 3 | C |
| 15 | 320 | 10.5 | 0 | C | 7.2 | -37 | 155 | -5.2 | 2.0 | -4.5 | 1 | C |
| 16 | 320 | 10.5 | 0 | C | 6.9 | -20 | 154 | -5.5 | 2.6 | -2.4 | 2 | C |
| 17 | 317 | 10.6 | 0 | C | 6.6 | 4 | 149 | -4.8 | 2.9 | 0.4 | 2 | C |
| 18 | 321 | 9.7 | 36 | J | 6.7 | -21 | 131 | -4.0 | 4.7 | -2.1 | 1 | J |
| 19 | 315 | 8.8 | 29 | J | 7.0 | -12 | 139 | -4.9 | 4.4 | -1.0 | 2 | J |
| 20 | 312 | 8.9 | 38 | J | 7.0 | -29 | 166 | -5.9 | 1.9 | -3.1 | 1 | J |
| 21 | 319 | 8.8 | 33 | J | 6.8 | -58 | 151 | -3.0 | 2.6 | -5.2 | 2 | C |
| 22 | 307 | 11.2 | 0 | C | 6.7 | -4 | 140 | -4.3 | 3.6 | 0.4 | 3 | C |
| 23 | 310 | 11.7 | 0 | C | 6.5 | 5 | 158 | -4.5 | 1.7 | 0.8 | 4 | C |
| 24 | 305 | 11.9 | 0 | C | 6.8 | 6 | 143 | -4.5 | 3.2 | 1.4 | 3 | C |

**ORIGINAL PAGE IS OF POOR QUALITY**

12/22/81 – 12/29/81

DEC. 22, 1981 356

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 293 | 11.9 | 0 | C | 6.8 | 23 | 146 | -5.1 | 2.9 | 3.2 | 1 | C |
| 2 | 291 | 11.9 | 0 | C | 6.7 | 17 | 158 | -5.8 | 1.9 | 2.2 | 1 | C |
| 3 | 301 | 8.1 | 22 | J | 6.3 | 70 | 163 | -2.0 | -0.1 | 5.7 | 2 | J |
| 4 | 315 | 10.3 | 21 | J | 6.4 | 55 | 133 | -2.5 | 2.3 | 5.3 | 1 | J |
| 5 | 296 | 12.8 | 0 | C | 6.9 | 26 | 144 | -4.7 | 3.4 | 2.9 | 2 | C |
| 6 | 305 | 10.7 | 16 | J | 6.7 | 36 | 138 | -3.9 | 3.7 | 3.6 | 1 | J |
| 7 | 304 | 10.0 | 19 | J | 6.7 | -20 | 153 | -5.4 | 2.5 | -2.5 | 2 | J |
| 8 | 309 | 10.3 | 26 | J | 6.7 | -25 | 143 | -4.6 | 3.0 | -3.2 | 2 | J |
| 9 | 314 | 13.4 | 0 | C | 6.0 | 35 | 113 | -1.2 | 3.2 | 1.6 | 5 | C |
| 10 | 324 | 12.2 | 0 | C | 5.7 | -4 | 130 | -3.3 | 3.8 | -1.2 | 2 | C |
| 11 | 329 | 11.2 | 0 | C | 6.2 | -7 | 124 | -3.0 | 4.3 | -1.6 | 3 | C |
| 12 | 328 | 10.6 | 0 | C | 6.1 | -21 | 128 | -3.4 | 3.9 | -3.0 | 1 | C |
| 13 | 324 | 10.3 | 42 | J | 5.2 | -3 | 137 | -3.3 | 3.0 | -0.8 | 3 | J |
| 14 | 324 | 10.0 | 35 | J | 5.2 | -8 | 136 | -3.5 | 3.2 | -1.2 | 2 | J |
| 15 | 326 | 10.4 | 30 | J | 5.5 | -27 | 126 | -2.8 | 3.6 | -2.8 | 1 | J |
| 16 | 339 | 10.8 | 40 | J | 5.3 | -4 | 138 | -3.6 | 3.2 | -0.5 | 2 | J |
| 17 | | | | | | | | | | | | |
| 18 | 319 | 10.7 | 24 | J | 6.4 | -2 | 127 | -3.8 | 5.0 | 0.0 | 1 | J |
| 19 | 313 | 11.5 | 26 | J | 6.2 | -5 | 137 | -4.5 | 4.2 | -0.1 | 1 | J |
| 20 | 319 | 14.9 | 24 | J | 5.4 | -9 | 120 | -2.5 | 4.3 | -0.1 | 2 | J |
| 21 | 322 | 19.0 | 24 | J | 2.5 | 13 | 349 | 1.4 | -0.3 | 0.3 | 2 | J |
| 22 | 325 | 22.4 | 41 | J | 4.6 | -1 | 129 | -2.9 | 3.5 | 0.7 | 0 | J |
| 23 | 297 | 18.7 | 0 | C | 4.8 | -9 | 139 | -3.2 | 2.9 | -0.0 | 3 | C |
| 24 | 305 | 21.7 | 0 | C | 3.6 | 8 | 312 | 2.2 | -2.4 | -0.1 | 3 | C |

DEC. 23, 1981 357

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 301 | 16.3 | 0 | C | 5.7 | 6 | 317 | 3.8 | -3.6 | -0.2 | 2 | C |
| 2 | 313 | 14.9 | 24 | J | 5.5 | -38 | 304 | 2.4 | -2.9 | -4.0 | 1 | J |
| 3 | 318 | 13.7 | 27 | J | 5.9 | -62 | 315 | 1.9 | -1.2 | -5.2 | 1 | J |
| 4 | 317 | 14.0 | 25 | J | 6.0 | -55 | 327 | 2.7 | -1.4 | -4.8 | 2 | J |
| 5 | 324 | 13.4 | 21 | J | 5.6 | -76 | 314 | 0.9 | -0.8 | -5.3 | 2 | J |
| 6 | | | | | 6.9 | -3 | 338 | 6.3 | -2.6 | -0.2 | 0 | J |
| 7 | 327 | 10.6 | 0 | C | 6.9 | 29 | 321 | 4.5 | -3.3 | 3.6 | 2 | J |
| 8 | 327 | 8.3 | 31 | J | 7.0 | 52 | 326 | 3.4 | -1.5 | 5.6 | 2 | J |
| 9 | 334 | 9.8 | 32 | J | 5.7 | 55 | 326 | 1.8 | -0.6 | 3.2 | 4 | J |
| 10 | 335 | 14.3 | 0 | C | 6.0 | 27 | 278 | 0.6 | -3.5 | 2.8 | 4 | C |
| 11 | 345 | 13.0 | 52 | J | 6.0 | 73 | 74 | 0.4 | 2.2 | 4.0 | 4 | J |
| 12 | 346 | 14.9 | 62 | J | 5.9 | 37 | 304 | 1.7 | -2.0 | 2.7 | 5 | J |
| 13 | 340 | 16.3 | 0 | C | 6.7 | 26 | 311 | 3.3 | -3.4 | 3.1 | 3 | C |
| 14 | 345 | 15.1 | 36 | J | 8.8 | 15 | 305 | 4.6 | -6.3 | 3.1 | 3 | J |
| 15 | 345 | 15.7 | 33 | J | 9.1 | 8 | 307 | 5.2 | -6.8 | 1.9 | 2 | J |
| 16 | 346 | 19.1 | 0 | C | 8.7 | 33 | 293 | 2.4 | -5.5 | 4.4 | 4 | C |
| 17 | 352 | 20.9 | 0 | C | 9.3 | 28 | 292 | 3.0 | -7.5 | 4.3 | 2 | C |
| 18 | 340 | 28.0 | 0 | C | 8.7 | 54 | 130 | -2.9 | 3.1 | 6.5 | 4 | C |
| 19 | 362 | 23.2 | 37 | J | 10.9 | 48 | 270 | -0.0 | -8.0 | 7.1 | 2 | J |
| 20 | 367 | 21.1 | 37 | J | 10.5 | 9 | 280 | 1.7 | -9.7 | 0.0 | 4 | J |
| 21 | 361 | 18.6 | 40 | J | 11.9 | 30 | 294 | 4.0 | -10.0 | 3.9 | 3 | J |
| 22 | 344 | 21.0 | 0 | C | 11.9 | 11 | 301 | 4.6 | -7.9 | 0.0 | 8 | J |
| 23 | 390 | 15.3 | 99 | J | 9.0 | -80 | 321 | 0.8 | 0.7 | -6.1 | 7 | J |
| 24 | 385 | 14.3 | 111 | J | 8.8 | -84 | 55 | 0.5 | 2.4 | -7.4 | 4 | J |

DEC. 24, 1981 358

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 387 | 18.1 | 0 | C | 9.8 | -68 | 328 | 2.7 | 0.0 | -8.1 | 4 | C |
| 2 | 423 | 16.4 | 0 | C | 9.6 | -63 | 313 | 3.1 | -1.8 | -8.2 | 3 | C |
| 3 | 431 | 14.9 | 0 | C | 9.1 | -44 | 290 | 2.0 | -4.8 | -6.7 | 3 | C |
| 4 | 423 | 13.5 | 0 | C | 9.0 | -28 | 315 | 5.1 | -4.7 | -4.3 | 3 | C |
| 5 | 430 | 11.3 | 0 | C | 8.0 | -16 | 320 | 5.5 | -4.5 | -2.2 | 3 | C |
| 6 | 443 | 9.8 | 0 | C | 7.6 | -9 | 317 | 4.3 | -4.0 | -0.8 | 4 | C |
| 7 | 459 | 8.6 | 0 | C | 7.6 | -5 | 320 | 5.4 | -4.6 | -0.2 | 2 | C |
| 8 | 459 | 7.3 | 77 | J | 7.1 | -3 | 320 | 5.1 | -4.3 | 0.3 | 2 | J |
| 9 | 457 | 7.3 | 64 | J | 7.2 | -7 | 324 | 5.5 | -4.1 | -0.1 | 2 | J |
| 10 | 456 | 7.2 | 61 | J | 7.0 | 11 | 332 | 6.0 | -2.9 | 1.9 | 1 | J |
| 11 | 474 | 9.5 | 0 | C | 6.7 | 26 | 340 | 5.5 | -1.4 | 3.2 | 1 | C |
| 12 | 461 | 10.0 | 0 | C | 6.8 | 29 | 318 | 4.1 | -3.0 | 3.7 | 2 | C |
| 13 | 461 | 10.0 | 0 | C | 6.9 | 5 | 333 | 3.6 | -5.3 | 1.4 | 2 | C |
| 14 | 429 | 9.9 | 131 | J | 6.3 | 15 | 328 | 4.7 | -2.7 | 1.8 | 3 | J |
| 15 | 418 | 7.4 | 85 | J | 8.1 | 26 | 312 | 4.7 | -4.9 | 3.9 | 2 | J |
| 16 | 418 | 9.7 | 0 | C | 9.3 | -5 | 326 | 7.7 | -5.2 | -0.5 | 0 | C |
| 17 | 397 | 8.6 | 86 | J | 8.6 | -7 | 313 | 5.6 | -6.0 | -1.1 | 2 | J |
| 18 | 399 | 9.1 | 91 | J | 8.1 | -4 | 327 | 6.7 | -4.3 | -0.8 | 2 | J |
| 19 | 400 | 9.7 | 80 | J | 7.4 | 15 | 329 | 5.5 | -3.5 | 1.3 | 3 | J |
| 20 | 408 | 8.5 | 68 | J | 6.5 | 17 | 319 | 4.5 | -4.1 | 1.2 | 2 | J |
| 21 | 417 | 9.5 | 64 | J | 6.5 | 12 | 294 | 2.3 | -5.2 | 0.2 | 3 | J |
| 22 | 415 | 9.5 | 53 | J | 6.5 | 16 | 315 | 4.1 | -4.4 | 0.7 | 2 | J |
| 23 | 411 | 10.1 | 50 | J | 6.2 | -22 | 324 | 4.3 | -2.5 | -2.8 | 2 | J |
| 24 | 414 | 13.4 | 0 | C | 6.7 | -5 | 281 | 1.2 | -5.6 | -1.9 | 2 | C |

DEC. 25, 1981 359

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 418 | 12.1 | 0 | C | 6.7 | 11 | 266 | -0.5 | -6.4 | -0.2 | 2 | C |
| 2 | 395 | 11.4 | 0 | C | | | | | | | | |
| 3 | 414 | 11.4 | 0 | C | 5.5 | -17 | 302 | 2.6 | -3.8 | -2.1 | 2 | C |
| 4 | 414 | 11.4 | 0 | C | 5.6 | 21 | 277 | 0.5 | -3.7 | 1.1 | 3 | C |
| 5 | 424 | 11.2 | 0 | C | 5.7 | -30 | 328 | 1.9 | -1.1 | -1.3 | 5 | C |
| 6 | | | | | 6.0 | 12 | 38 | 4.4 | 3.5 | 1.1 | 2 | C |
| 7 | | | | | 5.6 | 19 | 285 | 0.8 | -2.7 | 1.2 | 4 | C |
| 8 | | | | | 5.7 | 29 | 345 | 4.5 | -0.8 | 2.7 | 2 | C |
| 9 | | | | | 5.4 | -9 | 303 | 2.6 | -4.0 | -0.1 | 2 | C |
| 10 | | | | | 5.6 | -2 | 318 | 4.1 | -3.7 | 0.5 | 1 | C |
| 11 | | | | | 5.6 | -17 | 329 | 4.4 | -2.9 | -1.0 | 1 | C |
| 12 | 393 | 11.1 | 0 | C | | | | | | | | |
| 13 | 393 | 11.1 | 0 | C | 5.0 | -29 | 313 | 2.4 | -2.8 | -1.5 | 3 | C |
| 14 | 397 | 11.1 | 0 | C | 4.9 | -24 | 319 | 3.0 | -2.8 | -1.4 | 2 | C |
| 15 | 396 | 11.1 | 0 | C | 5.2 | -61 | 279 | 0.4 | -2.7 | -4.1 | 1 | C |
| 16 | 394 | 12.2 | 0 | C | | | | | | | | |
| 17 | 394 | 12.2 | 0 | C | 3.6 | -2 | 339 | 3.3 | -1.2 | -0.1 | 1 | C |
| 18 | 382 | 12.0 | 0 | C | 3.5 | -6 | 359 | 3.0 | -0.0 | -0.3 | 2 | C |
| 19 | 379 | 11.5 | 0 | C | 3.6 | 36 | 303 | 1.1 | -1.9 | 1.3 | 2 | C |
| 20 | 379 | 11.9 | 0 | C | 4.2 | 0 | 279 | 0.7 | -4.0 | -0.7 | 0 | C |
| 21 | 377 | 11.4 | 0 | C | 5.2 | -28 | 338 | 4.2 | -1.2 | -2.7 | 0 | C |
| 22 | 377 | 11.4 | 0 | C | 5.3 | 16 | 336 | 4.1 | -2.1 | 0.8 | 2 | C |
| 23 | 370 | 10.9 | 0 | C | 4.9 | 48 | 293 | 1.1 | -3.3 | 2.5 | 2 | C |
| 24 | 373 | 11.4 | 0 | C | 5.9 | -1 | 284 | 1.4 | -5.5 | -1.5 | 1 | C |

DEC. 26, 1981 360

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 11.4 | 0 | C | 6.0 | 6 | 277 | 0.7 | -5.6 | -0.7 | 2 | C |
| 2 | 367 | 10.9 | 0 | C | 6.0 | -17 | 269 | -0.1 | -5.1 | -2.8 | 1 | C |
| 3 | 366 | 11.8 | 0 | C | 5.6 | -3 | 290 | 1.5 | -4.2 | -0.9 | 3 | C |
| 4 | 374 | 16.1 | 0 | C | 3.3 | -17 | 296 | 0.3 | -0.7 | -0.3 | 3 | C |
| 5 | 381 | 19.4 | 0 | C | 1.5 | 9 | 65 | 0.5 | 1.1 | 0.2 | 1 | C |
| 6 | 383 | 19.3 | 0 | C | 2.9 | 24 | 226 | -1.6 | -1.7 | 1.1 | 1 | C |
| 7 | 383 | 19.2 | 0 | C | 2.8 | 47 | 156 | -1.6 | 0.9 | 1.8 | 1 | C |
| 8 | 379 | 17.6 | 0 | C | 2.7 | 42 | 123 | -1.1 | 1.9 | 1.6 | 0 | C |
| 9 | 375 | 15.3 | 0 | C | 5.3 | -22 | 91 | -0.1 | 4.1 | -2.5 | 2 | C |
| 10 | 374 | 14.9 | 0 | C | 5.4 | 1 | 103 | -1.2 | 4.9 | -0.8 | 2 | C |
| 11 | 370 | 12.9 | 0 | C | 5.7 | -35 | 100 | -0.6 | 2.9 | -3.1 | 4 | C |
| 12 | 364 | 11.1 | 0 | C | | | | | | | | |
| 13 | 361 | 10.3 | 0 | C | 5.5 | -4 | 139 | -3.2 | 2.7 | -0.7 | 3 | C |
| 14 | 365 | 10.4 | 0 | C | 5.2 | -3 | 149 | -3.8 | 2.3 | -0.5 | 2 | C |
| 15 | 372 | 10.0 | 0 | C | 5.3 | 39 | 127 | -2.4 | 3.5 | 3.0 | 1 | C |
| 16 | 376 | 10.1 | 0 | C | 4.9 | 22 | 123 | -2.4 | 3.7 | 1.7 | 1 | C |
| 17 | 366 | 9.8 | 0 | C | | | | | | | | |
| 18 | 366 | 9.8 | 0 | C | 4.6 | -24 | 125 | -2.1 | 3.2 | -1.4 | 2 | C |
| 19 | 372 | 9.5 | 0 | C | 4.8 | 1 | 112 | -1.7 | 4.0 | 0.6 | 2 | C |
| 20 | 372 | 9.4 | 0 | C | 4.3 | 2 | 110 | -1.2 | 3.3 | 0.7 | 2 | C |
| 21 | 373 | 9.5 | 0 | C | 3.5 | -7 | 124 | -1.8 | 2.7 | 0.2 | 1 | C |
| 22 | 379 | 9.4 | 0 | C | 4.4 | 18 | 121 | -2.0 | 2.9 | 2.0 | 1 | C |
| 23 | 376 | 9.1 | 0 | C | 4.8 | 23 | 117 | -1.8 | 3.0 | 2.5 | 2 | C |
| 24 | 379 | 9.2 | 0 | C | 4.6 | 22 | 117 | -1.8 | 3.0 | 2.4 | 1 | C |

DEC. 27, 1981 361

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 380 | 9.1 | 0 | C | 4.7 | -26 | 119 | -1.3 | 2.7 | -0.7 | 3 | C |
| 2 | 383 | 9.0 | 0 | C | 4.4 | -17 | 134 | -1.9 | 2.1 | -0.4 | 3 | C |
| 3 | 378 | 9.2 | 0 | C | 4.3 | 9 | 108 | -1.3 | 3.7 | 1.3 | 1 | C |
| 4 | 378 | 9.5 | 0 | C | 3.8 | -35 | 168 | -2.1 | 0.6 | -1.5 | 2 | C |
| 5 | 377 | 10.0 | 0 | C | 4.1 | -30 | 196 | -2.1 | -0.6 | -1.3 | 3 | C |
| 6 | 373 | 10.3 | 0 | C | 4.2 | -19 | 106 | -0.8 | 2.7 | -1.0 | 3 | C |
| 7 | 369 | 10.4 | 0 | C | 4.6 | 11 | 102 | -0.9 | 3.9 | 0.5 | 2 | C |
| 8 | 364 | 10.6 | 0 | C | 4.8 | -4 | 90 | 0.0 | 3.6 | -0.7 | 3 | C |
| 9 | 368 | 10.9 | 0 | C | 4.7 | 15 | 92 | -0.2 | 3.9 | 0.5 | 2 | C |
| 10 | 369 | 11.1 | 0 | C | 4.7 | 25 | 123 | -2.2 | 3.7 | 1.3 | 1 | C |
| 11 | 370 | 11.4 | 0 | C | 4.8 | -12 | 126 | -2.7 | 3.4 | -1.6 | 1 | C |
| 12 | 370 | 11.8 | 0 | C | 5.3 | 5 | 131 | -3.3 | 3.8 | -0.2 | 1 | C |
| 13 | 367 | 12.3 | 0 | C | 5.2 | 13 | 100 | -0.8 | 4.7 | 0.4 | 2 | C |
| 14 | 360 | 12.9 | 0 | C | 5.3 | 1 | 115 | -1.9 | 4.0 | -0.4 | 3 | C |
| 15 | 349 | 14.1 | 0 | C | 4.9 | 6 | 85 | 0.3 | 3.8 | 0.2 | 3 | C |
| 16 | 344 | 16.2 | 0 | C | 5.5 | -5 | 53 | 3.0 | 3.9 | -0.5 | 2 | C |
| 17 | 351 | 17.6 | 0 | C | 6.7 | 10 | 97 | -0.8 | 6.3 | 1.3 | 2 | C |
| 18 | 346 | 19.4 | 0 | C | 6.0 | -2 | 79 | 1.1 | 5.6 | 0.3 | 2 | C |
| 19 | 339 | 20.1 | 0 | C | 7.4 | 5 | 92 | -0.2 | 5.8 | 1.4 | 4 | C |
| 20 | 336 | 19.4 | 0 | C | 8.3 | 18 | 99 | -1.2 | 7.2 | 3.9 | 0 | C |
| 21 | 340 | 19.8 | 0 | C | | | | | | | | |
| 22 | 343 | 19.8 | 0 | C | 10.2 | -11 | 306 | 5.9 | -7.3 | -3.8 | 1 | C |
| 23 | 338 | 18.5 | 0 | C | 10.2 | -13 | 302 | 5.2 | -7.5 | -4.4 | 1 | C |
| 24 | 345 | 21.2 | 0 | C | 10.1 | -16 | 313 | 6.5 | -6.1 | -4.6 | 1 | C |

DEC. 28, 1981 362

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 341 | 21.8 | 0 | C | 10.1 | -72 | 302 | 0.5 | -0.1 | -2.9 | 9 | C |
| 2 | 355 | 25.9 | 0 | C | 7.7 | -58 | 111 | -1.4 | 4.8 | -5.2 | 1 | C |
| 3 | 353 | 29.7 | 0 | C | 8.6 | -17 | 102 | -1.5 | 7.3 | -1.0 | 3 | C |
| 4 | 336 | 29.9 | 0 | C | 9.0 | 0 | 106 | -2.2 | 7.8 | 0.9 | 3 | C |
| 5 | 338 | 31.0 | 0 | C | 5.4 | -31 | 169 | -3.2 | 0.7 | -1.9 | 3 | C |
| 6 | 326 | 22.9 | 0 | C | | | | | | | | |
| 7 | 326 | 22.9 | 0 | C | 9.9 | -7 | 86 | 0.7 | 9.5 | -1.7 | 2 | C |
| 8 | 333 | 25.2 | 0 | C | 9.8 | 1 | 68 | 3.6 | 9.0 | -0.7 | 1 | C |
| 9 | 330 | 23.8 | 0 | C | 11.2 | -7 | 92 | -0.4 | 9.9 | -2.8 | 4 | C |
| 10 | 339 | 21.4 | 0 | C | 10.5 | -20 | 190 | -8.6 | -1.9 | -2.9 | 5 | C |
| 11 | 358 | 21.5 | 0 | C | 8.9 | 47 | 258 | -1.1 | -4.2 | 6.4 | 4 | C |
| 12 | 357 | 20.4 | 0 | C | 11.5 | 42 | 301 | 4.2 | -5.7 | 8.3 | 3 | C |
| 13 | 363 | 20.1 | 0 | C | 11.5 | 12 | 115 | -1.9 | 4.2 | 0.4 | 10 | C |
| 14 | 364 | 21.0 | 0 | C | 10.4 | -41 | 251 | -1.8 | -5.6 | -4.2 | 7 | C |
| 15 | 374 | 20.6 | 0 | C | 10.5 | -55 | 201 | -5.1 | -2.5 | -7.8 | 4 | C |
| 16 | 363 | 17.1 | 0 | C | 12.7 | 24 | 90 | 0.0 | 11.6 | 5.1 | 1 | C |
| 17 | 388 | 13.3 | 105 | J | | | | | | | | |
| 18 | 390 | 12.7 | 110 | J | 7.8 | -16 | 169 | -6.5 | 1.4 | -1.8 | 3 | J |
| 19 | 408 | 8.6 | 98 | J | 6.6 | -27 | 190 | -5.3 | -0.5 | -2.8 | 3 | J |
| 20 | 417 | 7.1 | 129 | J | 6.9 | -2 | 153 | -5.5 | 2.8 | 0.3 | 2 | J |
| 21 | 420 | 9.7 | 0 | C | 5.7 | -9 | 149 | -4.5 | 2.8 | -0.2 | 2 | C |
| 22 | 416 | 6.8 | 75 | J | 5.8 | -7 | 168 | -5.1 | 1.2 | -0.3 | 2 | J |
| 23 | 418 | 6.8 | 80 | J | 5.1 | 17 | 168 | -3.6 | 0.4 | 1.3 | 3 | J |
| 24 | 420 | 7.9 | 72 | J | 4.8 | 26 | 149 | -2.5 | 1.1 | 1.7 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 414 | 9.1 | 86 | J | 5.8 | -35 | 143 | -3.2 | 3.0 | -2.1 | 3 | J |
| 2 | 415 | 9.8 | 0 | C | 5.6 | -4 | 92 | -0.1 | 3.7 | 0.6 | 3 | C |
| 3 | 413 | 10.4 | 0 | C | 6.1 | -10 | 74 | 1.3 | 4.6 | 0.0 | 2 | C |
| 4 | 416 | 10.8 | 0 | C | 5.7 | -10 | 87 | 0.3 | 5.1 | -0.2 | 2 | C |
| 5 | 412 | 10.6 | 0 | C | 6.2 | 5 | 98 | -0.7 | 5.4 | 0.9 | 2 | C |
| 6 | 460 | 21.7 | 0 | C | 10.3 | -27 | 177 | -7.9 | 0.4 | -4.1 | 6 | C |
| 7 | 501 | 25.5 | 0 | C | 17.0 | -16 | 103 | -3.1 | 12.7 | -4.5 | 7 | C |
| 8 | 576 | 18.5 | 437 | J | 17.6 | -31 | 139 | -10.3 | 8.1 | -9.0 | 7 | J |
| 9 | 598 | 24.0 | 0 | C | 17.9 | -4 | 94 | -1.2 | 17.5 | -3.6 | 1 | J |
| 10 | 625 | 23.5 | 0 | C | 14.8 | -26 | 131 | -7.3 | 7.4 | -6.5 | 7 | C |
| 11 | 631 | 23.2 | 0 | C | 11.9 | -29 | 122 | -4.9 | 7.0 | -6.3 | 5 | C |
| 12 | 606 | 18.5 | 213 | J | 9.6 | -22 | 81 | 1.3 | 7.7 | -4.6 | 3 | J |
| 13 | 608 | 17.5 | 164 | J | 11.3 | -14 | 94 | -0.7 | 10.0 | -3.9 | 3 | J |
| 14 | 567 | 16.2 | 223 | J | 10.4 | 5 | 115 | -4.2 | 9.1 | 0.0 | 3 | J |
| 15 | 574 | 12.8 | 186 | J | 11.1 | 10 | 107 | -3.0 | 10.1 | 1.3 | 3 | J |
| 16 | 579 | 12.9 | 199 | J | 9.8 | 12 | 110 | -2.3 | 6.3 | 1.4 | 7 | J |
| 17 | 569 | 16.1 | 180 | J | 6.5 | 76 | 333 | 1.1 | -0.8 | 4.7 | 5 | J |
| 18 | 569 | 14.0 | 93 | J | 10.6 | 30 | 294 | 2.8 | -6.6 | 3.3 | 7 | J |
| 19 | 565 | 16.4 | 94 | J | 8.4 | 35 | 286 | 1.5 | -5.6 | 2.9 | 5 | J |
| 20 | 562 | 16.7 | 0 | C | 8.0 | 56 | 268 | -0.1 | -5.5 | 5.4 | 2 | C |
| 21 | 555 | 16.4 | 0 | C | 7.2 | 40 | 255 | -1.3 | -5.9 | 3.0 | 2 | C |
| 22 | 547 | 14.3 | 116 | J | 7.4 | 30 | 140 | -3.6 | 2.2 | 3.4 | 5 | J |
| 23 | 552 | 13.7 | 119 | J | 7.9 | 22 | 125 | -3.9 | 4.7 | 4.2 | 3 | J |
| 24 | 534 | 14.2 | 0 | C | 7.0 | 33 | 140 | -4.3 | 2.5 | 4.4 | 2 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 543 | 12.2 | 111 | J | 9.0 | 12 | 109 | -2.6 | 6.8 | 3.6 | 4 | J |
| 2 | 552 | 14.7 | 101 | J | 8.2 | -15 | 94 | -0.5 | 8.0 | -0.2 | 1 | J |
| 3 | 542 | 17.3 | 75 | J | 8.3 | -42 | 108 | -1.7 | 6.2 | -3.9 | 4 | J |
| 4 | 533 | 21.8 | 100 | J | 12.5 | -57 | 203 | -5.8 | -1.1 | -9.9 | 5 | J |
| 5 | 532 | 18.5 | 89 | J | 12.6 | -53 | 119 | -3.6 | 7.3 | -9.4 | 2 | J |
| 6 | | | | | | | | | | | | |
| 7 | 434 | 5.2 | 0 | C | 12.3 | -73 | 283 | 0.8 | -4.0 | -11.5 | 1 | J |
| 8 | 497 | 6.3 | 32 | J | 12.1 | -69 | 267 | -0.2 | -5.1 | -10.4 | 3 | J |
| 9 | 494 | 8.8 | 26 | J | 11.6 | -36 | 250 | -3.2 | -9.5 | -5.6 | 2 | J |
| 10 | 447 | 5.7 | 0 | C | 11.8 | -33 | 243 | -4.5 | -9.7 | -5.1 | 0 | J |
| 11 | 436 | 6.1 | 0 | C | 12.1 | -48 | 243 | -3.6 | -8.5 | -7.8 | 0 | C |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 486 | 2.1 | 23 | J | 11.3 | -13 | 271 | 0.2 | -10.2 | -3.0 | 4 | J |
| 18 | 465 | 2.5 | 37 | J | 11.1 | -25 | 266 | -0.7 | -8.8 | -5.3 | 4 | J |
| 19 | 483 | 2.5 | 63 | J | 9.5 | 10 | 264 | -0.9 | -8.9 | 0.1 | 3 | J |
| 20 | 394 | 4.3 | 0 | C | 8.1 | 25 | 269 | -0.1 | -7.6 | 1.8 | 2 | J |
| 21 | 345 | 4.6 | 0 | C | 8.6 | 14 | 283 | 1.8 | -8.4 | 0.1 | 0 | C |
| 22 | 489 | 2.7 | 57 | J | 10.2 | 36 | 328 | 6.3 | -5.2 | 4.2 | 4 | J |
| 23 | 380 | 4.1 | 0 | C | 10.4 | 26 | 293 | 3.3 | -8.5 | 1.8 | 5 | J |
| 24 | 523 | 2.6 | 42 | J | 10.2 | 17 | 286 | 2.7 | -9.6 | 0.2 | 1 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 394 | 4.0 | 0 | C | 11.0 | 16 | 284 | 2.5 | -10.5 | 0.1 | 2 | C |
| 445 | 3.3 | 0 | C | 10.7 | 20 | 288 | 3.0 | -9.9 | 1.3 | 1 | C |
| 578 | 2.5 | 73 | J | 11.2 | 20 | 292 | 3.8 | -10.2 | 1.8 | 2 | C |
| 503 | 4.2 | 0 | C | 14.8 | 34 | 302 | 6.2 | -11.1 | 6.6 | 3 | C |
| 529 | 4.8 | 0 | C | 12.8 | 19 | 323 | 8.7 | -6.8 | 3.2 | 4 | C |
| 521 | 5.3 | 0 | C | 11.4 | 38 | 328 | 7.3 | -4.7 | 6.6 | 3 | J |
| 588 | 4.2 | 304 | J | 10.9 | 42 | 352 | 5.9 | -0.6 | 5.4 | 7 | J |
| 604 | 4.2 | 217 | J | 11.3 | -20 | 294 | 4.3 | -9.9 | -3.0 | 1 | J |
| 643 | 6.0 | 178 | J | 8.8 | -29 | 148 | -6.2 | 3.4 | -4.5 | 2 | J |
| 576 | 7.7 | 0 | C | 9.6 | -17 | 149 | -7.7 | 4.2 | -3.4 | 2 | C |
| 574 | 7.7 | 0 | C | 9.7 | -14 | 141 | -7.3 | 5.5 | -3.1 | 0 | C |
| | | | | | | | | | | | |
| 597 | 9.5 | 162 | J | 2.3 | 20 | 146 | -1.2 | 0.9 | 0.4 | 2 | J |
| | | | | 2.3 | -22 | 156 | -1.9 | 0.8 | -0.9 | 0 | J |
| 577 | 5.6 | 159 | J | 4.2 | -16 | 150 | -3.3 | 1.9 | -1.2 | 2 | J |
| 607 | 4.8 | 141 | J | 5.4 | 19 | 69 | 1.6 | 4.0 | 1.5 | 3 | J |
| 510 | 5.9 | 0 | C | 6.4 | 19 | 98 | -0.7 | 4.7 | 2.0 | 4 | C |
| 445 | 4.6 | 0 | C | 6.7 | 22 | 106 | -1.3 | 4.2 | 2.4 | 4 | C |
| 495 | 6.2 | 0 | C | 5.9 | 21 | 62 | 2.5 | 4.2 | 2.7 | 2 | C |
| 509 | 7.2 | 0 | C | 6.7 | 28 | 46 | 4.0 | 3.3 | 3.9 | 1 | C |
| 550 | 4.1 | 54 | J | 6.2 | -16 | 96 | -0.6 | 5.8 | -0.2 | 2 | J |
| 454 | 6.1 | 0 | C | 6.2 | -19 | 105 | -1.2 | 5.0 | -0.3 | 3 | C |
| 439 | 5.9 | 0 | C | 5.7 | 12 | 121 | -2.4 | 3.6 | 2.1 | 3 | C |
| 450 | 7.3 | 0 | C | 5.4 | 30 | 118 | -2.0 | 2.9 | 3.4 | 2 | C |

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1

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 18.3 | 0 | C | 5.8 | 14 | 92 | -0.2 | 4.5 | 2.6 | 2 | C |
| 2 | 449 | 7.9 | 0 | C | 6.1 | 7 | 67 | 2.3 | 5.1 | 2.0 | 1 | C |
| 3 | | | | | 6.2 | -8 | 74 | 1.6 | 5.7 | 0.4 | 1 | C |
| 4 | 447 | 6.7 | 0 | C | 6.2 | -11 | 82 | 0.9 | 6.1 | -0.3 | 1 | C |
| 5 | 447 | 6.7 | 0 | C | 5.8 | -14 | 89 | 0.1 | 5.7 | -0.8 | 1 | C |
| 6 | 434 | 6.4 | 0 | C | 5.9 | -5 | 108 | -1.7 | 5.4 | -0.3 | 1 | C |
| 7 | 412 | 6.1 | 0 | C | 6.3 | 9 | 145 | -4.9 | 3.4 | 0.9 | 2 | C |
| 8 | 413 | 5.6 | 0 | C | 6.1 | 6 | 147 | -4.7 | 3.1 | 0.4 | 2 | C |
| 9 | 432 | 3.9 | 0 | C | 6.1 | 9 | 170 | -5.8 | 1.1 | 0.8 | 1 | C |
| 10 | 466 | 3.0 | 0 | C | 6.2 | -9 | 162 | -5.7 | 1.7 | -1.1 | 1 | C |
| 11 | 465 | 3.4 | 0 | C | 6.2 | -12 | 142 | -4.6 | 3.4 | -1.7 | 1 | C |
| 12 | | | | | | | | | | | | |
| 13 | 458 | 3.7 | 0 | C | 6.3 | -4 | 154 | -5.4 | 2.6 | -0.7 | 1 | C |
| 14 | 458 | 3.7 | 0 | C | 6.4 | 1 | 154 | -5.6 | 2.7 | -0.1 | 0 | C |
| 15 | 463 | 3.9 | 0 | C | 6.7 | -45 | 224 | -3.1 | -3.1 | -4.2 | 3 | J |
| 16 | 484 | 3.8 | 0 | C | 6.9 | -45 | 176 | -4.5 | 0.4 | -4.5 | 3 | J |
| 17 | 445 | 3.3 | 55 | J | 7.1 | -15 | 184 | -6.6 | -0.3 | -1.8 | 2 | J |
| 18 | 462 | 3.9 | 0 | C | 7.1 | -21 | 187 | -6.3 | -0.5 | -2.5 | 2 | C |
| 19 | 454 | 3.9 | 0 | C | 7.0 | -11 | 192 | -6.3 | -1.1 | -1.5 | 2 | C |
| 20 | 422 | 3.9 | 0 | C | | | | | | | | |
| 21 | 447 | 3.7 | 0 | C | 6.9 | -5 | 156 | -6.1 | 2.7 | 0.1 | 1 | C |
| 22 | 447 | 3.7 | 0 | C | 7.4 | 5 | 141 | -4.9 | 3.7 | 1.7 | 4 | C |
| 23 | 468 | 3.3 | 47 | J | 7.4 | 23 | 128 | -2.9 | 2.9 | 3.0 | 5 | J |
| 24 | 489 | 3.1 | 47 | J | 7.3 | 20 | 117 | -3.1 | 5.0 | 4.1 | 1 | J |

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2

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 471 | 3.2 | 0 | C | 7.3 | 27 | 119 | -2.5 | 3.5 | 3.7 | 5 | J |
| 475 | 3.2 | 0 | C | 7.4 | 15 | 105 | -1.8 | 5.9 | 3.5 | 2 | J |
| 471 | 3.3 | 0 | C | 7.5 | -5 | 137 | -4.7 | 4.5 | 0.4 | 3 | C |
| 450 | 3.1 | 0 | C | 7.4 | 7 | 139 | -5.4 | 4.4 | 1.5 | 2 | C |
| 480 | 2.8 | 68 | J | 7.3 | -3 | 135 | -4.8 | 4.7 | 0.2 | 2 | C |
| 516 | 3.2 | 0 | C | 6.7 | 30 | 155 | -4.1 | 1.5 | 2.6 | 4 | J |
| 503 | 3.5 | 0 | C | 7.0 | 7 | 129 | -4.3 | 5.3 | 0.7 | 1 | J |
| 486 | 3.3 | 0 | C | 6.9 | -20 | 171 | -5.0 | 0.7 | -1.9 | 4 | C |
| 466 | 2.9 | 0 | C | 7.3 | 19 | 142 | -5.1 | 4.2 | 1.8 | 2 | C |
| 489 | 2.3 | 61 | J | 7.4 | -2 | 143 | -5.7 | 4.3 | -0.8 | 2 | J |
| 469 | 2.6 | 0 | C | 7.5 | -11 | 145 | -6.0 | 4.0 | -1.9 | 1 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 477 | 2.8 | 0 | C | 8.4 | -35 | 155 | -6.1 | 2.5 | -4.8 | 2 | C |
| 474 | 2.6 | 54 | J | 8.3 | -35 | 182 | -6.8 | -0.3 | -4.8 | 1 | J |
| 506 | 2.8 | 0 | C | 8.3 | -31 | 165 | -6.7 | 1.9 | -4.2 | 2 | C |
| 467 | 2.6 | 0 | C | 8.0 | -31 | 154 | -6.1 | 3.3 | -3.8 | 1 | C |
| 489 | 2.8 | 0 | C | 7.9 | -40 | 163 | -5.6 | 2.4 | -4.7 | 1 | C |
| 476 | 2.8 | 57 | J | 7.7 | -42 | 161 | -5.3 | 2.7 | -4.6 | 2 | J |
| 490 | 2.9 | 62 | J | 7.6 | -45 | 153 | -4.7 | 3.5 | -4.6 | 2 | J |
| 445 | 3.8 | 0 | C | 7.7 | -37 | 155 | -5.6 | 3.7 | -3.8 | 1 | C |
| 478 | 3.2 | 0 | C | 7.7 | -31 | 149 | -5.6 | 4.4 | -2.7 | 1 | C |
| 464 | 3.2 | 0 | C | 7.6 | -23 | 144 | -5.7 | 4.8 | -1.6 | 0 | C |
| 465 | 3.3 | 0 | C | 7.6 | -24 | 147 | -5.7 | 4.5 | -1.7 | 1 | C |

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3

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 487 | 3.0 | 78 | J | 7.0 | -29 | 144 | -4.7 | 4.2 | -2.1 | 2 | J |
| 2 | 475 | 3.1 | 71 | J | 6.7 | -17 | 147 | -5.2 | 3.8 | -0.9 | 2 | J |
| 3 | 474 | 3.4 | 84 | J | 6.5 | -18 | 175 | -5.4 | 0.9 | -1.6 | 3 | J |
| 4 | 478 | 4.1 | 0 | C | 6.4 | -21 | 164 | -4.7 | 1.6 | -1.6 | 4 | J |
| 5 | 479 | 4.0 | 0 | C | 6.7 | -28 | 116 | -2.3 | 5.0 | -2.3 | 3 | J |
| 6 | 516 | 3.7 | 105 | J | 6.4 | 5 | 95 | -0.5 | 5.6 | 0.8 | 3 | J |
| 7 | 505 | 3.6 | 118 | J | 6.2 | -1 | 117 | -2.0 | 4.0 | -0.1 | 4 | J |
| 8 | 483 | 4.1 | 0 | C | 5.5 | 7 | 124 | -2.6 | 3.9 | 0.3 | 3 | J |
| 9 | 485 | 4.4 | 0 | C | 5.5 | 13 | 126 | -2.0 | 2.7 | 0.5 | 4 | C |
| 10 | 479 | 3.1 | 68 | J | 5.7 | -27 | 136 | -3.4 | 3.0 | -2.8 | 2 | J |
| 11 | 475 | 3.4 | 91 | J | 5.5 | -14 | 142 | -3.7 | 2.7 | -1.5 | 3 | J |
| 12 | 505 | 3.8 | 94 | J | 5.5 | -11 | 108 | -1.4 | 4.1 | -1.3 | 3 | J |
| 13 | 467 | 4.5 | 0 | C | 5.7 | 21 | 153 | -3.9 | 2.1 | 1.5 | 3 | C |
| 14 | 445 | 3.5 | 43 | J | 6.2 | 0 | 123 | -3.3 | 5.1 | -0.3 | 1 | J |
| 15 | 432 | 4.5 | 64 | J | 6.5 | -20 | 127 | -3.4 | 4.5 | -2.2 | 2 | J |
| 16 | 438 | 6.2 | 0 | C | 7.0 | -50 | 103 | -1.0 | 4.4 | -5.0 | 2 | C |
| 17 | 434 | 9.4 | 0 | C | 7.5 | -55 | 95 | -0.3 | 4.7 | -5.7 | 1 | C |
| 18 | 428 | 11.2 | 0 | C | 7.5 | 36 | 99 | -0.8 | 4.7 | 4.6 | 3 | C |
| 19 | 444 | 11.2 | 90 | J | 7.3 | -40 | 92 | -0.2 | 5.4 | -3.0 | 4 | J |
| 20 | 457 | 9.1 | 130 | J | 6.6 | -66 | 298 | 1.0 | -0.7 | -5.2 | 4 | J |
| 21 | 468 | 7.8 | 123 | J | 7.3 | -52 | 40 | 3.0 | 3.8 | -4.2 | 4 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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4

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| 456 | 6.9 | 165 | J | 7.4 | -37 | 150 | -2.4 | 1.9 | -1.6 | 7 | J |
| 433 | 7.1 | 184 | J | 7.7 | -18 | 155 | -5.9 | 3.2 | -1.4 | 4 | J |
| 445 | 6.7 | 138 | J | 6.9 | 18 | 132 | -4.3 | 4.3 | 2.9 | 2 | J |
| 449 | 8.2 | 130 | J | 7.5 | 12 | 128 | -4.5 | 5.6 | 2.2 | 0 | J |
| 438 | 7.6 | 165 | J | 6.9 | 46 | 126 | -2.7 | 3.5 | 5.0 | 1 | J |
| 444 | 7.5 | 130 | J | 7.3 | 21 | 126 | -3.7 | 5.1 | 2.4 | 3 | J |
| 443 | 7.1 | 144 | J | 8.0 | 4 | 106 | -2.1 | 7.2 | 0.2 | 3 | J |
| 421 | 7.2 | 107 | J | 7.3 | 7 | 144 | -5.5 | 4.1 | 0.5 | 2 | J |
| 434 | 5.2 | 113 | J | 6.4 | -13 | 116 | -2.3 | 4.5 | -1.7 | 4 | J |
| 405 | 4.8 | 89 | J | 5.4 | -17 | 177 | -5.1 | 0.1 | -1.6 | 1 | J |
| 429 | 7.5 | 0 | C | 7.1 | -37 | 143 | -3.9 | 2.6 | -4.0 | 3 | C |
| 439 | 6.8 | 0 | C | 6.8 | -43 | 132 | -3.2 | 3.2 | -4.8 | 1 | C |
| 435 | 5.9 | 0 | C | 6.7 | -5 | 151 | -5.6 | 3.1 | -0.7 | 1 | C |
| 435 | 5.9 | 0 | C | 7.0 | -37 | 148 | -4.4 | 2.7 | -3.9 | 2 | C |
| 451 | 6.1 | 0 | C | 6.8 | -55 | 144 | -3.1 | 2.5 | -5.3 | 1 | C |
| 425 | 5.7 | 0 | C | 5.4 | -61 | 329 | 2.1 | -0.9 | -4.6 | 1 | C |
| 439 | 6.1 | 109 | J | 4.3 | -55 | 140 | -1.8 | 2.0 | -3.2 | 1 | J |
| 429 | 6.1 | 86 | J | 4.6 | -28 | 138 | -2.6 | 2.6 | -1.3 | 3 | J |
| 438 | 6.9 | 93 | J | 5.4 | -2 | 130 | -3.0 | 3.5 | 0.7 | 3 | J |
| 448 | 7.6 | 77 | J | 4.9 | -23 | 120 | -1.8 | 3.5 | -0.6 | 3 | J |
| 420 | 6.8 | 72 | J | 5.1 | 16 | 145 | -3.8 | 2.1 | 2.1 | 2 | J |
| 406 | 7.4 | 59 | J | 4.7 | -23 | 157 | -3.2 | 1.8 | -1.0 | 3 | J |
| 403 | 6.2 | 59 | J | 4.3 | 12 | 163 | -3.6 | 0.8 | 1.1 | 2 | J |

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5

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 7.6 | 0 | C | 5.4 | 41 | 169 | -3.9 | -0.3 | 3.6 | 1 | C |
| 2 | 407 | 6.4 | 42 | J | 4.8 | 11 | 171 | -4.5 | 0.4 | 1.0 | 1 | J |
| 3 | 404 | 8.6 | 0 | C | 4.9 | 7 | 162 | -4.6 | 1.3 | 0.9 | 1 | C |
| 4 | 407 | 8.5 | 0 | C | 4.9 | 10 | 170 | -4.7 | 0.6 | 1.0 | 1 | C |
| 5 | 398 | 8.4 | 0 | C | 5.1 | 12 | 185 | -4.9 | -0.5 | 1.0 | 0 | C |
| 6 | 394 | 8.4 | 0 | C | 5.3 | -4 | 205 | -4.6 | -2.2 | -0.5 | 1 | C |
| 7 | 386 | 6.6 | 135 | J | 4.8 | 14 | 175 | -4.5 | 0.4 | 1.1 | 1 | J |
| 8 | 404 | 6.9 | 72 | J | 4.9 | 13 | 144 | -3.4 | 2.5 | 0.9 | 2 | J |
| 9 | 419 | 6.5 | 54 | J | 4.1 | -65 | 141 | -1.2 | 0.7 | -3.3 | 2 | J |
| 10 | 404 | 6.5 | 60 | J | 4.0 | 12 | 166 | -3.5 | 0.9 | 0.7 | 1 | J |
| 11 | 405 | 6.6 | 49 | J | 4.5 | 21 | 179 | -4.0 | 0.2 | 1.5 | 1 | J |
| 12 | 407 | 5.6 | 55 | J | 4.4 | 6 | 182 | -4.2 | -0.1 | 0.5 | 1 | J |
| 13 | 395 | 7.7 | 0 | C | 5.0 | 1 | 175 | -5.0 | 0.4 | 0.1 | 0 | C |
| 14 | 385 | 7.3 | 0 | C | 5.0 | 1 | 179 | -5.0 | 0.1 | 0.1 | 0 | C |
| 15 | 393 | 4.2 | 82 | L | 4.7 | 16 | 170 | -4.3 | 0.8 | 1.2 | 1 | J |
| 16 | 389 | 6.9 | 0 | C | 4.4 | 14 | 165 | -4.1 | 1.1 | 1.1 | 1 | J |
| 17 | 391 | 6.9 | 0 | C | 4.8 | 13 | 163 | -4.5 | 1.2 | 1.2 | 0 | C |
| 18 | 387 | 5.7 | 73 | J | 4.1 | 31 | 154 | -3.2 | 1.2 | 2.3 | 0 | J |
| 19 | 394 | 5.7 | 71 | J | 4.4 | 33 | 157 | -3.3 | 0.9 | 2.6 | 1 | J |
| 20 | 384 | 6.3 | 103 | J | 4.6 | 5 | 173 | -4.4 | 0.4 | 0.5 | 1 | J |
| 21 | 383 | 5.9 | 72 | J | 4.5 | 0 | 171 | -4.3 | 0.7 | 0.2 | 1 | J |
| 22 | 379 | 6.2 | 97 | J | 4.5 | 0 | 171 | -4.3 | 0.7 | 0.2 | 0 | J |
| 23 | 373 | 5.8 | 25 | J | 4.2 | -13 | 179 | -3.9 | 0.4 | -0.9 | 1 | C |
| 24 | 381 | 7.8 | 37 | J | 4.3 | -15 | 170 | -2.8 | 0.7 | -0.6 | 3 | J |

JAN. 6, 1982

6

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 403 | 10.2 | 50 | J | 4.7 | -17 | 325 | 3.6 | -2.0 | -2.1 | 1 | J |
| 383 | 15.1 | 0 | C | 4.7 | -81 | 57 | 0.1 | 0.6 | -1.4 | 4 | C |
| 375 | 15.7 | 0 | C | 4.9 | 22 | 131 | -2.9 | 2.8 | 2.5 | 1 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 364 | 15.2 | 0 | C | | | | | | | | |
| 364 | 15.2 | 0 | C | 7.2 | -57 | 214 | -2.9 | -2.1 | -5.2 | 3 | C |
| 359 | 13.0 | 53 | J | 4.7 | -50 | 176 | -3.0 | -0.0 | -3.6 | 0 | J |
| 356 | 12.1 | 37 | J | 5.8 | -48 | 214 | -2.9 | -2.3 | -3.7 | 2 | J |
| 348 | 14.4 | 0 | C | 7.7 | -39 | 166 | -5.6 | 1.0 | -4.7 | 2 | C |
| 364 | 9.0 | 0 | C | 8.7 | -25 | 139 | -5.8 | 4.7 | -4.1 | 2 | C |
| 384 | 8.7 | 0 | C | | | | | | | | |
| 382 | 10.6 | 0 | C | 10.7 | 23 | 132 | -6.6 | 7.4 | 3.8 | 2 | C |
| 382 | 10.6 | 0 | C | 11.5 | 29 | 129 | -6.4 | 7.7 | 5.5 | 1 | C |
| 375 | 13.1 | 0 | C | 11.4 | 40 | 121 | -4.4 | 7.0 | 7.5 | 2 | C |
| 373 | 13.0 | 0 | C | 11.0 | 47 | 129 | -4.6 | 4.8 | 8.5 | 2 | C |
| 377 | 19.0 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 489 | 21.2 | 80 | L | | | | | | | | |
| | | | | | | | | | | | |
| 497 | 8.0 | 0 | C | 11.7 | 30 | 330 | 8.6 | -6.6 | 3.9 | 1 | C |
| 497 | 8.0 | 0 | C | 11.5 | 15 | 322 | 8.7 | -7.3 | 0.5 | 2 | C |

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## JAN. 7, 1982

7

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 489 | 8.7 | 0 | C | 11.6 | 9 | 329 | 9.6 | -6.1 | -0.2 | 2 | C |
| 2 | 492 | 9.2 | 0 | C | 11.9 | 7 | 328 | 10.0 | -6.5 | -0.4 | 1 | C |
| 3 | 478 | 10.7 | 0 | C | 12.1 | 4 | 314 | 8.1 | -8.3 | -1.4 | 3 | C |
| 4 | 466 | 11.6 | 0 | C | 12.4 | 1 | 312 | 7.9 | -8.8 | -1.7 | 2 | C |
| 5 | 475 | 12.4 | 0 | C | 12.4 | 5 | 290 | 3.8 | -10.9 | -0.4 | 4 | C |
| 6 | 468 | 14.6 | 0 | C | 11.4 | 16 | 307 | 5.7 | -7.9 | 2.1 | 5 | C |
| 7 | 471 | 15.7 | 0 | C | 9.2 | -18 | 305 | 4.0 | -5.8 | -2.5 | 5 | C |
| 8 | 479 | 15.5 | 0 | C | 8.5 | -33 | 307 | 2.7 | -3.7 | -2.9 | 6 | C |
| 9 | 471 | 13.9 | 0 | C | 8.6 | 15 | 314 | 5.3 | -5.3 | 2.4 | 3 | C |
| 10 | 472 | 12.6 | 0 | C | 9.7 | 16 | 299 | 4.1 | -7.2 | 3.0 | 4 | C |
| 11 | 473 | 11.1 | 0 | C | 9.9 | 21 | 297 | 3.7 | -7.0 | 3.8 | 4 | C |
| 12 | 504 | 5.4 | 0 | C | 9.0 | 36 | 307 | 4.0 | -4.9 | 5.2 | 3 | C |
| 13 | 526 | 9.2 | 0 | C | 7.7 | 14 | 275 | 0.3 | -2.8 | 0.9 | 6 | C |
| 14 | 536 | 8.9 | 0 | C | 6.3 | 41 | 117 | -2.0 | 4.0 | 3.6 | 2 | C |
| 15 | 525 | 7.1 | 0 | C | 6.8 | -4 | 273 | 0.2 | -4.4 | -0.4 | 5 | C |
| 16 | 517 | 6.4 | 0 | C | 7.9 | -21 | 277 | 0.8 | -6.3 | -2.9 | 3 | C |
| 17 | 496 | 6.5 | 0 | C | 7.9 | -16 | 320 | 5.6 | -4.4 | -2.7 | 2 | C |
| 18 | 500 | 6.5 | 0 | C | 7.7 | 5 | 322 | 4.6 | -3.6 | -0.1 | 4 | C |
| 19 | 499 | 6.2 | 0 | C | 7.2 | 33 | 314 | 3.4 | -4.2 | 2.3 | 3 | C |
| 20 | 485 | 5.7 | 0 | C | 7.5 | -5 | 328 | 5.8 | -3.4 | -1.6 | 2 | C |
| 21 | 477 | 5.4 | 0 | C | 7.7 | -5 | 322 | 6.0 | -4.2 | -2.0 | 1 | C |
| 22 | 477 | 5.7 | 0 | C | 7.5 | 45 | 304 | 2.5 | -5.0 | 3.1 | 3 | C |
| 23 | 472 | 6.0 | 0 | C | 7.5 | -15 | 320 | 5.2 | -3.5 | -3.2 | 2 | C |
| 24 | 470 | 6.7 | 0 | C | 7.4 | 29 | 311 | 3.6 | -5.0 | 1.5 | 3 | C |

## JAN. 8, 1982

8

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 469 | 7.0 | 0 | C | 7.6 | -6 | 313 | 4.3 | -4.1 | -2.1 | 4 | C |
| 2 | 471 | 6.7 | 0 | C | 7.6 | -28 | 306 | 3.4 | -3.6 | -4.3 | 4 | C |
| 3 | 478 | 6.5 | 0 | C | 6.7 | 11 | 290 | 1.5 | -4.1 | -0.2 | 4 | C |
| 4 | 466 | 6.4 | 0 | C | 6.5 | -20 | 307 | 2.7 | -3.2 | -2.3 | 3 | C |
| 5 | 470 | 6.2 | 0 | C | 6.3 | -1 | 338 | 3.8 | -1.5 | -0.3 | 4 | C |
| 6 | 479 | 5.5 | 0 | C | 6.1 | -3 | 319 | 3.8 | -3.3 | -0.5 | 3 | C |
| 7 | 497 | 4.8 | 0 | C | 5.7 | 29 | 339 | 4.2 | -1.7 | 2.4 | 2 | C |
| 8 | 514 | 3.8 | 0 | C | 5.6 | 10 | 308 | 3.2 | -4.1 | 1.0 | 1 | C |
| 9 | 547 | 3.3 | 0 | C | 5.5 | 14 | 291 | 1.7 | -4.4 | 1.9 | 1 | C |
| 10 | 546 | 3.2 | 0 | C | 5.1 | -11 | 286 | 1.2 | -4.2 | -0.5 | 1 | C |
| 11 | 545 | 3.3 | 0 | C | 4.7 | -2 | 297 | 1.6 | -3.2 | 0.1 | 2 | C |
| 12 | 554 | 3.1 | 0 | C | 4.6 | 21 | 252 | -1.1 | -3.4 | 1.7 | 2 | C |
| 13 | 560 | 3.2 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 537 | 3.1 | 0 | C | 4.4 | 16 | 245 | -1.5 | -3.1 | 1.1 | 2 | C |
| 15 | 531 | 3.1 | 0 | C | 4.5 | -5 | 253 | -0.8 | -2.7 | -0.3 | 3 | C |
| 16 | 513 | 3.3 | 0 | C | 4.2 | 10 | 279 | 0.6 | -3.7 | 0.4 | 1 | C |
| 17 | 510 | 3.3 | 0 | C | 4.0 | 1 | 296 | 1.5 | -3.0 | -0.3 | 2 | C |
| 18 | 505 | 3.3 | 0 | C | 4.6 | -17 | 278 | 0.5 | -3.4 | -1.7 | 2 | C |
| 19 | 512 | 3.2 | 0 | C | 4.7 | -12 | 222 | -2.7 | -2.2 | -1.3 | 3 | C |
| 20 | 502 | 3.0 | 0 | C | 4.3 | -31 | 234 | -1.9 | -2.0 | -2.6 | 2 | C |
| 21 | 485 | 2.9 | 0 | C | 4.1 | -3 | 294 | 1.4 | -3.1 | -1.1 | 2 | C |
| 22 | 483 | 3.2 | 0 | C | 4.4 | -15 | 304 | 2.2 | -2.8 | -2.1 | 1 | C |
| 23 | 468 | 3.2 | 0 | C | 4.2 | 1 | 310 | 2.5 | -2.8 | -1.0 | 1 | C |
| 24 | 465 | 3.2 | 0 | C | 4.0 | 0 | 306 | 2.1 | -2.7 | -1.0 | 1 | C |

## JAN. 9, 1982

9

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 460 | 3.1 | 0 | C | 4.3 | -23 | 319 | 2.8 | -1.8 | -2.3 | 1 | C |
| 2 | 463 | 3.1 | 0 | C | 4.2 | -16 | 297 | 1.6 | -2.8 | -2.0 | 1 | C |
| 3 | 463 | 3.0 | 0 | C | 4.8 | -3 | 321 | 3.1 | -2.4 | -0.8 | 2 | C |
| 4 | 457 | 3.0 | 0 | C | 4.4 | -27 | 291 | 1.4 | -3.1 | -2.7 | 1 | C |
| 5 | 454 | 3.1 | 0 | C | 4.3 | -15 | 295 | 1.7 | -3.4 | -1.6 | 1 | C |
| 6 | 451 | 3.1 | 0 | C | 4.5 | -19 | 288 | 1.3 | -3.7 | -1.7 | 1 | C |
| 7 | 444 | 3.2 | 0 | C | 4.6 | 0 | 300 | 2.2 | -3.9 | -0.2 | 1 | C |
| 8 | 455 | 3.2 | 0 | C | 4.6 | 7 | 256 | -0.9 | -3.8 | 0.6 | 2 | C |
| 9 | 440 | 3.2 | 0 | C | 4.6 | 5 | 285 | 1.0 | -3.8 | 0.5 | 2 | C |
| 10 | 439 | 3.3 | 0 | C | 4.6 | -4 | 252 | -1.3 | -4.0 | -0.0 | 1 | C |
| 11 | 428 | 3.4 | 0 | C | 4.5 | -13 | 285 | 1.1 | -4.2 | -0.7 | 1 | C |
| 12 | 413 | 3.3 | 0 | C | 4.6 | 0 | 298 | 2.0 | -3.8 | 0.2 | 1 | C |
| 13 | 408 | 3.7 | 0 | C | 4.3 | 19 | 303 | 2.1 | -3.2 | 1.4 | 1 | C |
| 14 | 406 | 3.8 | 0 | C | 4.6 | -9 | 309 | 2.7 | -3.4 | -0.6 | 1 | C |
| 15 | 398 | 3.9 | 0 | C | 4.3 | -5 | 337 | 3.7 | -1.6 | -0.4 | 1 | C |
| 16 | 377 | 4.4 | 0 | C | 4.1 | -23 | 300 | 1.7 | -2.9 | -1.7 | 1 | C |
| 17 | 372 | 5.2 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 376 | 5.3 | 0 | C | 3.9 | -17 | 257 | -0.8 | -3.3 | -1.7 | 1 | C |
| 19 | 386 | 5.0 | 0 | C | 4.1 | -5 | 234 | -2.2 | -2.9 | -1.0 | 1 | C |
| 20 | 379 | 5.6 | 0 | C | 3.8 | -18 | 265 | -0.3 | -2.8 | -1.9 | 2 | C |
| 21 | 359 | 6.4 | 0 | C | 4.0 | -15 | 315 | 2.7 | -2.2 | -1.8 | 1 | C |
| 22 | 359 | 6.4 | 0 | C | 4.1 | -18 | 307 | 2.3 | -2.5 | -2.2 | 0 | C |
| 23 | 358 | 6.7 | 0 | C | 4.1 | -20 | 306 | 2.3 | -2.4 | -2.4 | 0 | C |
| 24 | 358 | 6.9 | 0 | C | 4.1 | -12 | 302 | 2.2 | -2.9 | -2.0 | 0 | C |

## JAN. 10, 1982

10

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 359 | 7.1 | 0 | C | 4.2 | -7 | 301 | 2.1 | -3.1 | -1.7 | 0 | C |
| 2 | 353 | 7.1 | 0 | C | 4.2 | 7 | 291 | 1.5 | -3.8 | -0.7 | 1 | C |
| 3 | 345 | 7.4 | 0 | C | 4.3 | 25 | 280 | 0.6 | -4.0 | 0.7 | 1 | C |
| 4 | 341 | 7.9 | 0 | C | 4.0 | 36 | 284 | 0.8 | -3.5 | 1.6 | 0 | C |
| 5 | 339 | 8.3 | 0 | C | 4.0 | 41 | 291 | 1.0 | -3.1 | 2.1 | 1 | C |
| 6 | 340 | 8.2 | 0 | C | 4.3 | 52 | 261 | -0.4 | -2.9 | 3.1 | 0 | C |
| 7 | 338 | 8.1 | 0 | C | 4.0 | 53 | 277 | 0.3 | -2.5 | 3.0 | 1 | C |
| 8 | 349 | 8.0 | 16 | J | 3.8 | 73 | 267 | -0.1 | -1.0 | 3.4 | 1 | C |
| 9 | 347 | 9.2 | 19 | J | 3.7 | 50 | 241 | -1.2 | -2.0 | 2.9 | 1 | J |
| 10 | 328 | 11.7 | 0 | C | 4.3 | 46 | 235 | -1.7 | -2.2 | 3.2 | 0 | C |
| 11 | 327 | 12.0 | 0 | C | 4.6 | 53 | 236 | -1.5 | -2.0 | 3.6 | 1 | C |
| 12 | 339 | 10.1 | 18 | J | 4.8 | 39 | 244 | -1.6 | -3.1 | 3.1 | 1 | J |
| 13 | 370 | 8.4 | 21 | J | 5.0 | 36 | 241 | -1.9 | -3.4 | 3.0 | 1 | J |
| 14 | 338 | 9.3 | 18 | J | 5.7 | 32 | 245 | -2.0 | -4.2 | 2.9 | 1 | J |
| 15 | 334 | 9.3 | 12 | J | 6.2 | 29 | 251 | -1.7 | -5.1 | 2.8 | 1 | J |
| 16 | 320 | 10.4 | 0 | C | 7.1 | 31 | 260 | -1.1 | -6.3 | 3.2 | 1 | C |
| 17 | 318 | 10.2 | 0 | C | 7.0 | 20 | 248 | -2.4 | -6.4 | 1.6 | 1 | C |
| 18 | 316 | 11.2 | 0 | C | 7.1 | 19 | 260 | -1.2 | -6.9 | 1.0 | 1 | C |
| 19 | 313 | 13.0 | 0 | C | 6.9 | 29 | 263 | -0.7 | -6.6 | 1.8 | 1 | C |
| 20 | 313 | 14.2 | 0 | C | 6.7 | -23 | 237 | -3.4 | -4.2 | -3.9 | 0 | C |
| 21 | 312 | 14.2 | 0 | C | 7.0 | -23 | 244 | -2.8 | -4.7 | -4.4 | 1 | C |
| 22 | 301 | 12.4 | 0 | C | 7.1 | -17 | 247 | -2.6 | -5.2 | -4.1 | 1 | C |
| 23 | 304 | 12.5 | 0 | C | 6.9 | -11 | 251 | -2.1 | -5.5 | -3.4 | 1 | C |
| 24 | 307 | 14.7 | 0 | C | 6.5 | -5 | 250 | -2.2 | -5.4 | -2.6 | 1 | C |

## JAN. 11, 1982

11

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 301 | 13.8 | 0 | C | 6.7 | -6 | 248 | -2.4 | -5.5 | -2.7 | 1 | C |
| 2 | 313 | 11.2 | 15 | J | 6.5 | -18 | 235 | -3.5 | -4.1 | -3.5 | 1 | J |
| 3 | 299 | 13.6 | 0 | C | 6.5 | -13 | 241 | -3.1 | -4.9 | -3.0 | 0 | J |
| 4 | 297 | 13.9 | 0 | C | 6.6 | -25 | 258 | -1.3 | -5.0 | -4.0 | 1 | C |
| 5 | 307 | 11.8 | 16 | J | 5.9 | -26 | 264 | -0.5 | -4.5 | -3.3 | 2 | J |
| 6 | 295 | 15.6 | 0 | C | 6.0 | -25 | 269 | -0.1 | -4.6 | -2.9 | 2 | C |
| 7 | 308 | 13.3 | 17 | J | 5.7 | -35 | 239 | -2.2 | -3.6 | -3.2 | 2 | J |
| 8 | 299 | 13.5 | 25 | J | 5.5 | -18 | 254 | -1.4 | -4.8 | -1.7 | 2 | J |
| 9 | 291 | 15.4 | 0 | C | 5.7 | -21 | 251 | -1.6 | -4.9 | -1.8 | 1 | C |
| 10 | 294 | 14.2 | 0 | C | 6.2 | -24 | 250 | -1.9 | -5.3 | -2.2 | 1 | C |
| 11 | 293 | 14.1 | 0 | C | 6.3 | -16 | 264 | -0.6 | -5.9 | -1.4 | 1 | C |
| 12 | 296 | 14.8 | 0 | C | 6.3 | -22 | 260 | -1.0 | -5.8 | -2.1 | 1 | C |
| 13 | 294 | 15.1 | 0 | C | 6.6 | -13 | 255 | -1.6 | -6.1 | -1.3 | 1 | C |
| 14 | 292 | 14.8 | 0 | C | 6.8 | -2 | 262 | -1.0 | -6.5 | -0.2 | 1 | C |
| 15 | 292 | 14.4 | 0 | C | 7.1 | -14 | 258 | -1.4 | -6.4 | -2.0 | 2 | C |
| 16 | 289 | 14.1 | 0 | C | 7.0 | -15 | 257 | -1.5 | -6.1 | -2.3 | 2 | C |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 285 | 14.9 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 285 | 14.9 | 0 | C | 6.5 | -13 | 275 | 0.5 | -5.1 | -2.6 | 3 | C |
| 20 | 302 | 16.9 | 0 | C | 7.0 | 14 | 301 | 3.1 | -5.4 | -0.0 | 3 | C |
| 21 | 305 | 11.5 | 0 | C | 7.7 | 36 | 331 | 5.4 | -4.3 | 3.3 | 1 | C |
| 22 | 308 | 10.0 | 0 | C | 7.7 | 26 | 329 | 5.9 | -4.5 | 1.9 | 0 | C |
| 23 | 312 | 10.1 | 0 | C | 7.6 | 28 | 335 | 5.8 | -3.8 | 2.2 | 2 | C |
| 24 | 304 | 10.9 | 0 | C | 7.9 | 15 | 316 | 5.4 | -5.6 | -0.1 | 2 | C |

## JAN. 12, 1982

12

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 302 | 10.1 | 0 | C | 7.8 | -1 | 296 | 3.1 | -6.0 | -2.3 | 3 | C |
| 2 | 304 | 10.5 | 0 | C | 7.5 | 3 | 283 | 1.7 | -7.0 | -2.0 | 1 | C |
| 3 | 293 | 10.4 | 0 | C | 7.4 | -1 | 281 | 1.4 | -6.9 | -2.2 | 1 | C |
| 4 | 295 | 10.3 | 0 | C | 7.1 | -9 | 284 | 1.7 | -6.3 | -2.6 | 1 | C |
| 5 | 307 | 7.6 | 16 | J | 6.4 | 8 | 291 | 2.1 | -5.6 | -0.2 | 2 | J |
| 6 | 305 | 6.0 | 19 | J | 6.6 | 33 | 324 | 4.3 | -3.5 | 3.1 | 2 | J |
| 7 | 290 | 9.6 | 0 | C | 7.1 | 32 | 330 | 5.2 | -3.2 | 3.6 | 1 | C |
| 8 | 299 | 10.6 | 0 | C | 6.0 | 18 | 316 | 3.4 | -3.3 | 1.5 | 3 | C |
| 9 | 298 | 11.8 | 0 | C | 6.2 | -18 | 287 | 1.6 | -5.4 | -1.7 | 2 | C |
| 10 | 299 | 9.8 | 0 | C | 6.8 | 7 | 309 | 4.1 | -5.1 | 1.0 | 1 | C |
| 11 | 299 | 9.1 | 0 | C | 6.8 | 13 | 309 | 4.1 | -4.9 | 1.7 | 1 | C |
| 12 | 300 | 9.0 | 0 | C | 6.6 | 21 | 315 | 4.3 | -4.2 | 2.6 | 0 | C |
| 13 | 301 | 9.0 | 0 | C | 6.5 | 19 | 313 | 4.2 | -4.4 | 2.3 | 0 | C |
| 14 | 303 | 8.9 | 0 | C | 6.4 | 25 | 314 | 4.0 | -4.1 | 2.6 | 1 | C |
| 15 | 301 | 9.1 | 0 | C | 6.1 | 21 | 320 | 4.3 | -3.7 | 2.0 | 1 | C |
| 16 | 298 | 9.6 | 0 | C | 6.1 | 10 | 313 | 4.1 | -4.4 | 0.6 | 1 | C |
| 17 | 298 | 9.7 | 0 | C | 6.3 | 22 | 319 | 4.4 | -4.1 | 1.8 | 0 | C |
| 18 | 298 | 9.7 | 0 | C | 6.2 | 15 | 317 | 4.3 | -4.3 | 0.8 | 1 | C |
| 19 | 307 | 8.7 | 17 | J | 6.3 | 20 | 315 | 4.0 | -4.4 | 1.0 | 1 | J |
| 20 |  |  |  |  | 6.2 | 21 | 264 | -0.6 | -6.0 | 0.4 | 2 | J |
| 21 | 291 | 11.5 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 302 | 8.2 | 15 | J | 5.9 | 11 | 310 | 3.6 | -4.4 | -0.5 | 1 | J |
| 23 | 239 | 13.0 | 0 | C | 5.9 | 27 | 336 | 4.7 | -2.9 | 1.7 | 1 | J |
| 24 | 238 | 13.2 | 0 | C | 5.7 | 23 | 349 | 5.1 | -1.7 | 1.7 | 1 | J |

## JAN. 13, 1982

13

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 287 | 12.5 | 0 | C | 5.8 | 28 | 329 | 4.3 | -3.4 | 1.6 | 1 | J |
| 2 | 288 | 13.4 | 0 | C | 5.7 | 13 | 323 | 4.4 | -3.5 | 0.1 | 1 | J |
| 3 | 283 | 14.2 | 0 | C | 5.0 | 23 | 295 | 1.9 | -4.4 | 0.6 | 2 | J |
| 4 |  |  |  |  | 5.3 | 10 | 295 | 2.1 | -4.6 | -0.2 | 1 | J |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 301 | 23.5 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 301 | 23.5 | 0 | C | 11.5 | 11 | 287 | 2.7 | -9.0 | 1.7 | 6 | C |
| 9 | 326 | 29.4 | 0 | C | 11.0 | -4 | 280 | -1.6 | -9.3 | -0.4 | 5 | C |
| 10 | 307 | 26.1 | 0 | C | 11.3 | 13 | 284 | 2.6 | -10.2 | 2.9 | 3 | C |
| 11 | 302 | 24.2 | 0 | C | 10.5 | 28 | 303 | 4.6 | -6.8 | 4.8 | 4 | C |
| 12 | 292 | 26.0 | 0 | C | 10.0 | 54 | 334 | 5.1 | -2.2 | 8.0 | 2 | C |
| 13 | 295 | 25.6 | 0 | C | 9.5 | 46 | 329 | 5.4 | -3.2 | 6.7 | 2 | C |
| 14 | 304 | 24.5 | 0 | C | 10.0 | 56 | 11 | 5.3 | 0.9 | 8.0 | 3 | C |
| 15 | 321 | 16.3 | 21 | J | 9.8 | 71 | 341 | 3.0 | -1.5 | 9.1 | 1 | J |
| 16 | 310 | 12.1 | 18 | J | 10.9 | 40 | 329 | 7.0 | -4.9 | 6.4 | 2 | J |
| 17 | 307 | 13.1 | 16 | J | 10.4 | 40 | 327 | 6.3 | -5.0 | 5.6 | 3 | J |
| 18 | 294 | 18.1 | 0 | C | 10.1 | 40 | 313 | 4.9 | -6.5 | 4.8 | 3 | C |
| 19 | 298 | 20.6 | 0 | C | 9.4 | 45 | 310 | 4.2 | -6.6 | 5.1 | 1 | C |
| 20 | 299 | 23.6 | 0 | C | 9.0 | 39 | 301 | 3.5 | -7.1 | 3.4 | 2 | C |
| 21 | 299 | 18.8 | 0 | C | 9.2 | 42 | 298 | 3.2 | -7.6 | 3.7 | 1 | C |
| 22 | 301 | 12.3 | 14 | J | 8.6 | 50 | 335 | 4.7 | -4.2 | 4.9 | 3 | J |
| 23 | 306 | 18.4 | 12 | J | 7.4 | 56 | 305 | 2.3 | -5.4 | 4.4 | 1 | J |
| 24 | 291 | 20.4 | 0 | C | 7.7 | 44 | 317 | 4.0 | -5.5 | 3.5 | 1 | C |

## JAN. 14, 1982

14

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 300 | 17.0 | 21 | J | 6.2 | 58 | 339 | 3.0 | -3.0 | 4.4 | 1 | J |
| 2 | 294 | 14.4 | 22 | J | 6.5 | 54 | 359 | 3.8 | -1.8 | 4.9 | 1 | J |
| 3 | 292 | 15.3 | 26 | J | 5.9 | 45 | 8 | 4.1 | -0.7 | 4.1 | 1 | J |
| 4 | 279 | 19.3 | 0 | C | 5.4 | 59 | 334 | 2.5 | -2.3 | 4.1 | 1 | J |
| 5 | 282 | 19.6 | 0 | C | 5.3 | 45 | 314 | 2.5 | -3.2 | 3.0 | 1 | J |
| 6 | 283 | 20.2 | 0 | C | 4.9 | 29 | 310 | 2.3 | -3.0 | 1.6 | 2 | C |
| 7 | 286 | 19.3 | 0 | C | 4.8 | 44 | 301 | 1.8 | -3.2 | 3.0 | 0 | C |
| 8 | 288 | 18.1 | 0 | C | 4.3 | 43 | 337 | 2.8 | -1.3 | 2.9 | 1 | C |
| 9 | 287 | 11.7 | 16 | J | 4.8 | 24 | 328 | 3.7 | -2.3 | 2.0 | 0 | J |
| 10 | 283 | 13.7 | 17 | J | 4.2 | 30 | 325 | 2.9 | -2.0 | 2.1 | 1 | J |
| 11 | 277 | 14.5 | 0 | C | 4.6 | 24 | 314 | 2.9 | -2.9 | 2.0 | 0 | C |
| 12 | 278 | 18.7 | 0 | C | 5.0 | 25 | 314 | 3.1 | -3.2 | 2.2 | 1 | C |
| 13 | 288 | 32.0 | 0 | C | 5.8 | 31 | 313 | 3.1 | -3.3 | 2.8 | 2 | C |
| 14 | 300 | 25.5 | 30 | J | 6.3 | 53 | 75 | 0.9 | 3.4 | 4.9 | 2 | J |
| 15 | 286 | 31.6 | 0 | C | 6.5 | 62 | 61 | 1.5 | 2.3 | 5.9 | 1 | C |
| 16 | 282 | 32.0 | 0 | C | 7.4 | 67 | 120 | -1.3 | 1.6 | 6.6 | 2 | C |
| 17 | 290 | 33.2 | 0 | C | 7.8 | 59 | 312 | 2.7 | -4.0 | 6.1 | 0 | J |
| 18 | 294 | 34.1 | 26 | J | 9.0 | 43 | 93 | -0.3 | 4.4 | 6.4 | 5 | J |
| 19 | 286 | 30.6 | 33 | J | 8.2 | 22 | 112 | -2.8 | 5.9 | 4.8 | 1 | J |
| 20 | 293 | 34.9 | 34 | J | 7.9 | 6 | 100 | -1.3 | 7.0 | 3.1 | 2 | J |
| 21 | 276 | 46.2 | 0 | C | 6.8 | -8 | 103 | -1.5 | 6.0 | 1.2 | 2 | C |
| 22 | 306 | 26.0 | 49 | J | 6.6 | -67 | 124 | -1.3 | 3.9 | -4.5 | 2 | J |
| 23 | 304 | 25.5 | 63 | J | 6.3 | 10 | 114 | -1.4 | 2.8 | 1.8 | 5 | J |
| 24 | 308 | 24.1 | 63 | J | 6.6 | 59 | 265 | -0.1 | -1.7 | 1.3 | 6 | J |

# 01/15/82 – 01/22/82

### JAN. 15, 1982

15

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 305 | 25.5 | 95 | J | 7.0 | -1 | 208 | -2.9 | -1.4 | -0.6 | 7 | J |
| 2 | 289 | 33.4 | 0 | C | 4.9 | 15 | 116 | -2.1 | 3.6 | 2.7 | 1 | J |
| 3 | 286 | 30.5 | 0 | C | 10.7 | -39 | 225 | -5.6 | -3.4 | -7.9 | 3 | C |
| 4 | 280 | 31.5 | 0 | C | 12.6 | -47 | 168 | -7.9 | 3.8 | -8.0 | 4 | C |
| 5 | 308 | 19.7 | 70 | J | 11.0 | 17 | 129 | -6.1 | 6.8 | 4.4 | 4 | J |
| 6 | 286 | 29.8 | 0 | C | 8.8 | -4 | 119 | -3.9 | 7.0 | 0.4 | 5 | J |
| 7 | 331 | 14.3 | 48 | J | 12.7 | -25 | 127 | -6.7 | 9.2 | -4.4 | 4 | J |
| 8 | 327 | 13.7 | 45 | J | 13.4 | 5 | 126 | -7.6 | 10.4 | 1.5 | 4 | J |
| 9 | 323 | 20.4 | 0 | C | 12.5 | 0 | 127 | -6.1 | 8.2 | -0.0 | 7 | C |
| 10 | 340 | 22.0 | 0 | C | 10.6 | 32 | 130 | -5.2 | 6.3 | 4.8 | 4 | C |
| 11 | 351 | 20.6 | 0 | C | 12.8 | -24 | 127 | -6.8 | 8.8 | -5.2 | 3 | C |
| 12 | 351 | 18.9 | 0 | C | 11.6 | -30 | 130 | -6.3 | 7.5 | -5.9 | 1 | C |
| 13 | 352 | 18.7 | 0 | C | 11.9 | -34 | 129 | -6.2 | 7.5 | -6.6 | 2 | C |
| 14 | 358 | 18.9 | 0 | C | 11.5 | -21 | 135 | -7.5 | 7.6 | -3.9 | 2 | J |
| 15 | 337 | 10.5 | 24 | J | 10.6 | -13 | 141 | -7.3 | 6.1 | -1.8 | 4 | J |
| 16 | 369 | 19.3 | 0 | C | 8.0 | -47 | 118 | -2.0 | 4.3 | -4.2 | 4 | C |
| 17 | 366 | 19.1 | 0 | C | 8.2 | 5 | 131 | -4.1 | 4.6 | 1.3 | 5 | C |
| 18 | 380 | 13.7 | 132 | J | 7.2 | -61 | 203 | -2.6 | 0.0 | -5.3 | 4 | J |
| 19 | 369 | 12.8 | 127 | J | 7.3 | -8 | 2 3 | -4.7 | -1.7 | -1.2 | 5 | J |
| 20 | 378 | 12.0 | 100 | J | 7.8 | -18 | 127 | -3.1 | 4.4 | -0.3 | 6 | J |
| 21 | 371 | 17.0 | 0 | C | 7.7 | -25 | 160 | -5.6 | 2.8 | -1.9 | 4 | C |
| 22 | 375 | 16.7 | 0 | C | 8.4 | -3 | 141 | -5.9 | 4.7 | 1.5 | 3 | C |
| 23 | 374 | 16.4 | 0 | C | 8.3 | 4 | 128 | -4.9 | 5.6 | 2.9 | 2 | C |
| 24 | 369 | 11.9 | 75 | J | 8.2 | -13 | 144 | -6.4 | 5.0 | 0.1 | 1 | J |

### JAN. 16, 1982

16

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 12.2 | 74 | J | 8.3 | -11 | 136 | -5.6 | 5.6 | 0.6 | 2 | J |
| 2 | 390 | 15.7 | 0 | C | 8.9 | 23 | 119 | -3.3 | 4.6 | 4.9 | 4 | C |
| 3 | 385 | 16.1 | 0 | C | 9.5 | 22 | 128 | -4.3 | 4.3 | 4.4 | 4 | C |
| 4 | 381 | 16.3 | 0 | C | 9.4 | -20 | 129 | -5.1 | 7.0 | -1.2 | 3 | C |
| 5 | 377 | 15.8 | 0 | C | 9.2 | -20 | 150 | -5.6 | 3.7 | -1.6 | 6 | C |
| 6 | 380 | 15.1 | 0 | C | 8.7 | 3 | 152 | -6.1 | 3.2 | 0.8 | 5 | C |
| 7 | 380 | 14.4 | 0 | C | 9.0 | -5 | 130 | -5.0 | 5.9 | -0.1 | 2 | C |
| 8 | 389 | 14.1 | 0 | C | 9.1 | -35 | 113 | -2.4 | 5.8 | -4.1 | 4 | C |
| 9 | 386 | 10.5 | 70 | J | 8.6 | -38 | 143 | -4.8 | 3.7 | -4.7 | 3 | J |
| 10 | 388 | 10.3 | 70 | J | 8.3 | -4 | 127 | -3.8 | 5.0 | -0.5 | 5 | J |
| 11 | 407 | 10.6 | 90 | J | 8.0 | 10 | 95 | -0.5 | 5.7 | 0.9 | 5 | J |
| 12 | 398 | 14.1 | 0 | C | 8.3 | 24 | 100 | -1.1 | 6.4 | 2.8 | 4 | C |
| 13 | 396 | 14.0 | 0 | C | 9.3 | -34 | 164 | -7.3 | 2.2 | -5.1 | 0 | C |
| 14 | 395 | 9.9 | 71 | J | 9.3 | -43 | 160 | -5.6 | 2.2 | -5.5 | 5 | J |
| 15 | 411 | 9.8 | 55 | J | 9.2 | -76 | 176 | -2.0 | 0.7 | -8.0 | 4 | J |
| 16 | 404 | 13.3 | 0 | C | 9.4 | -61 | 209 | -3.2 | -0.9 | -6.7 | 5 | C |
| 17 | 391 | 13.7 | 0 | C | 8.8 | 33 | 157 | -6.2 | 1.8 | 4.8 | 3 | C |
| 18 | 406 | 10.6 | 65 | J | 6.8 | -55 | 137 | -2.3 | 3.1 | -3.8 | 4 | J |
| 19 | 416 | 11.5 | 68 | J | 7.5 | -83 | 185 | -0.8 | 1.8 | -6.4 | 3 | J |
| 20 | 388 | 11.2 | 67 | J | 7.8 | -24 | 160 | -5.1 | 2.5 | -1.7 | 5 | J |
| 21 | 397 | 11.0 | 73 | J | 8.0 | -9 | 119 | -3.5 | 6.4 | 1.2 | 3 | J |
| 22 | 393 | 10.3 | 55 | J | 8.4 | 0 | 126 | -4.1 | 5.2 | 2.1 | 5 | J |
| 23 | 404 | 9.6 | 73 | J | 8.0 | -43 | 156 | -4.1 | 3.3 | -3.1 | 5 | J |
| 24 | 405 | 10.3 | 98 | J | 7.6 | -13 | 195 | -5.3 | -0.8 | -1.7 | 5 | J |

### JAN. 17, 1982

17

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 10.8 | 117 | J | 6.9 | 52 | 213 | -3.3 | -3.9 | 3.8 | 3 | J |
| 2 | 411 | 13.7 | 0 | C | 7.6 | 3 | 130 | -4.1 | 4.5 | 2.1 | 2 | C |
| 3 | 415 | 10.2 | 100 | J | 7.9 | -25 | 137 | -4.8 | 5.3 | -1.5 | 3 | J |
| 4 | 409 | 9.7 | 75 | J | 8.1 | 19 | 118 | -3.1 | 5.0 | 3.8 | 4 | J |
| 5 | 410 | 9.9 | 71 | J | 8.3 | 30 | 98 | -0.9 | 5.4 | 5.0 | 4 | J |
| 6 | 423 | 10.0 | 76 | J | 8.7 | 16 | 100 | -1.1 | 6.2 | 2.9 | 5 | C |
| 7 | 423 | 10.3 | 79 | J | 8.6 | 45 | 78 | 1.2 | 5.2 | 6.4 | 2 | J |
| 8 | 408 | 9.9 | 59 | J | 9.2 | -8 | 113 | -3.5 | 8.3 | -0.9 | 2 | J |
| 9 | 410 | 10.1 | 70 | J | 9.7 | -33 | 117 | -3.5 | 7.0 | -5.0 | 3 | J |
| 10 | 412 | 11.1 | 71 | J | 9.3 | -43 | 120 | -3.4 | 5.8 | -6.3 | 2 | J |
| 11 | 399 | 15.7 | 0 | C | 8.4 | -6 | 111 | -2.5 | 6.5 | -0.8 | 5 | J |
| 12 | 396 | 13.9 | 0 | C | 9.3 | 0 | 129 | -5.3 | 6.6 | -0.1 | 4 | J |
| 13 | 413 | 7.6 | 40 | J | 9.9 | 10 | 118 | -4.5 | 8.4 | 1.8 | 2 | J |
| 14 | 426 | 11.3 | 0 | C | 6.2 | -11 | 134 | -2.9 | 3.1 | -0.7 | 4 | C |
| 15 | 425 | 10.9 | 0 | C | 6.5 | 40 | 174 | -2.9 | 0.1 | 2.5 | 4 | C |
| 16 | 421 | 10.7 | 0 | C | 7.5 | 5 | 154 | -6.1 | 2.9 | 1.0 | 2 | C |
| 17 | 421 | 10.7 | 0 | C | 7.9 | 6 | 115 | -3.3 | 6.8 | 2.1 | 1 | J |
| 18 | 443 | 7.4 | 112 | J | 7.9 | 4 | 110 | -2.6 | 6.8 | 2.2 | 2 | J |
| 19 | 435 | 9.5 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 452 | 6.5 | 79 | J | 8.2 | 36 | 90 | 0.0 | 4.5 | 6.4 | 2 | J |
| 21 | 434 | 7.3 | 91 | J | 7.9 | 8 | 117 | -3.1 | 5.4 | 3.1 | 4 | J |
| 22 | 419 | 6.7 | 63 | J | 7.6 | 10 | 131 | -4.6 | 4.4 | 3.2 | 2 | J |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 473 | 6.8 | 129 | J | 7.0 | 1 | 90 | 0.0 | 5.4 | 2.5 | 4 | J |

### JAN. 18, 1982

18

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 469 | 6.2 | 155 | J | 6.1 | -26 | 111 | -1.8 | 5.4 | -0.4 | 2 | J |
| 2 | 455 | 8.6 | 0 | C | 5.3 | -9 | 121 | -2.4 | 4.0 | 0.7 | 2 | C |
| 3 | 452 | 8.2 | 0 | C | 5.6 | -9 | 126 | -2.9 | 4.0 | 0.6 | 2 | C |
| 4 | 459 | 6.2 | 100 | J | 5.0 | 6 | 140 | -3.7 | 2.9 | 1.4 | 1 | J |
| 5 | 453 | 6.3 | 91 | J | 4.9 | 5 | 160 | -4.3 | 1.4 | 0.7 | 2 | J |
| 6 | 447 | 5.8 | 105 | J | 5.2 | 0 | 182 | -4.7 | -0.2 | -0.0 | 2 | J |
| 7 | 440 | 5.6 | 105 | J | 5.0 | -14 | 187 | -4.4 | -0.4 | -1.2 | 2 | J |
| 8 | 440 | 4.6 | 65 | J | 5.2 | -5 | 181 | -4.8 | -0.1 | -0.4 | 1 | J |
| 9 | 445 | 6.1 | 73 | J | 6.5 | -13 | 153 | -5.6 | 2.9 | -1.4 | 1 | J |
| 10 | 437 | 5.7 | 83 | J | 6.0 | -16 | 174 | -5.3 | 0.6 | -1.5 | 2 | J |
| 11 | 430 | 7.2 | 107 | J | 6.9 | -10 | 195 | -6.2 | -1.7 | -1.1 | 2 | J |
| 12 | 426 | 7.2 | 133 | J | 7.3 | -16 | 185 | -5.7 | -0.5 | -1.7 | 4 | J |
| 13 | 433 | 7.9 | 0 | C | 6.7 | -29 | 173 | -5.6 | 0.7 | -3.1 | 1 | C |
| 14 | 442 | 8.2 | 0 | C | 6.8 | -31 | 199 | -5.4 | -1.7 | -3.4 | 1 | C |
| 15 | 417 | 6.4 | 87 | J | 6.5 | -8 | 193 | -5.7 | -1.2 | -0.9 | 2 | J |
| 16 | 414 | 7.1 | 86 | J | 6.7 | 11 | 186 | -6.0 | -0.8 | 1.1 | 2 | C |
| 17 | 378 | 12.8 | 0 | C | 6.8 | 18 | 173 | -5.3 | 0.3 | 1.8 | 4 | J |
| 18 | 411 | 6.7 | 55 | J | 9.2 | -28 | 145 | -6.2 | 5.2 | -2.9 | 5 | J |
| 19 | 415 | 7.9 | 28 | J | 9.4 | -56 | 172 | -5.0 | 2.8 | -6.9 | 3 | C |
| 20 | 414 | 9.3 | 24 | J | 9.2 | -59 | 183 | -4.7 | 2.3 | -7.4 | 1 | J |
| 21 | 411 | 10.1 | 24 | J | 9.2 | -60 | 159 | -4.0 | 4.1 | -6.3 | 3 | C |
| 22 | 409 | 6.0 | 42 | L | 8.8 | -47 | 183 | -5.8 | 2.2 | -5.8 | 2 | C |
| 23 | 400 | 6.9 | 87 | L | 8.2 | -40 | 154 | -5.5 | 4.6 | -3.6 | 1 | C |
| 24 | 390 | 7.6 | 0 | C | 9.6 | -28 | 172 | -8.2 | 2.9 | -3.6 | 2 | C |

### JAN. 19, 1982

19

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 8.3 | 0 | C | 9.1 | -22 | 151 | -7.3 | 5.0 | -1.5 | 1 | C |
| 2 | 387 | 10.0 | 0 | C | 7.9 | -14 | 125 | -4.1 | 6.2 | 0.5 | 3 | C |
| 3 | 390 | 10.1 | 0 | C | 7.0 | 47 | 67 | 1.7 | 2.3 | 5.7 | 2 | C |
| 4 | 383 | 9.4 | 0 | C | 5.9 | 43 | 76 | 1.0 | 2.7 | 4.7 | 2 | C |
| 5 | 376 | 9.1 | 0 | C | 4.2 | 36 | 107 | -0.9 | 2.2 | 2.7 | 1 | C |
| 6 | 372 | 8.2 | 0 | C | 3.6 | 26 | 78 | 0.6 | 2.3 | 1.7 | 2 | C |
| 7 | 368 | 7.5 | 0 | C | 3.4 | 53 | 53 | 0.7 | 0.8 | 1.7 | 3 | C |
| 8 | 367 | 6.5 | 0 | C | 3.7 | 28 | 51 | 1.1 | 1.4 | 1.0 | 3 | C |
| 9 | 367 | 5.6 | 0 | C | 4.1 | 33 | 47 | 2.4 | 2.4 | 2.3 | 1 | C |
| 10 | 372 | 5.2 | 0 | C | 2.3 | 20 | 32 | 1.5 | 1.0 | 0.7 | 1 | C |
| 11 | 375 | 5.1 | 0 | C | 4.0 | 3 | 44 | 2.7 | 2.7 | 0.2 | 1 | C |
| 12 | 369 | 5.6 | 0 | C | 3.2 | 21 | 87 | 0.1 | 1.4 | 0.5 | 3 | C |
| 13 | 365 | 6.0 | 0 | C | 2.8 | 14 | 116 | -1.1 | 2.2 | 0.7 | 1 | C |
| 14 | 366 | 6.1 | 0 | C | 2.8 | 5 | 177 | -2.5 | 0.1 | 0.2 | 1 | C |
| 15 | 369 | 6.4 | 0 | C | 3.2 | 22 | 99 | -0.3 | 2.0 | 1.1 | 2 | C |
| 16 | 371 | 6.5 | 0 | C | 3.7 | 46 | 77 | 0.5 | 2.0 | 2.8 | 1 | C |
| 17 | 372 | 6.9 | 0 | C | 3.6 | -6 | 127 | -2.0 | 2.8 | 0.2 | 1 | C |
| 18 | 372 | 7.1 | 0 | C | 3.7 | 27 | 79 | 0.6 | 2.4 | 2.1 | 2 | C |
| 19 | 365 | 7.5 | 0 | C | 3.8 | 18 | 86 | 0.2 | 2.6 | 1.9 | 2 | C |
| 20 | 359 | 7.9 | 0 | C | 3.8 | 32 | 70 | 1.0 | 2.0 | 2.8 | 1 | C |
| 21 | 360 | 8.0 | 0 | C | 4.0 | 71 | 38 | 1.0 | -0.6 | 3.6 | 1 | C |
| 22 | 357 | 8.4 | 0 | C | 3.4 | 54 | 73 | 0.5 | 0.6 | 2.9 | 1 | C |
| 23 | 355 | 8.6 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 377 | 14.2 | 0 | C | 2.0 | 0 | 228 | -1.0 | -1.0 | -0.4 | 1 | C |

### JAN. 20, 1982

20

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 377 | 14.2 | 0 | C | 3.2 | -35 | 201 | -2.0 | -0.1 | -1.7 | 2 | C |
| 2 | 371 | 12.4 | 0 | C | 3.1 | -34 | 215 | -1.9 | -0.6 | -2.0 | 1 | C |
| 3 | 374 | 12.8 | 0 | C |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 358 | 11.6 | 0 | C | 3.8 | 42 | 251 | -0.9 | -3.0 | 2.2 | 0 | C |
| 8 | 358 | 11.6 | 0 | C | 4.0 | 24 | 269 | -0.1 | -3.1 | 1.2 | 2 | C |
| 9 | 364 | 11.7 | 0 | C | 4.5 | -21 | 283 | 0.8 | -3.6 | -1.5 | 2 | C |
| 10 | 358 | 11.8 | 0 | C | 3.8 | -29 | 274 | 0.1 | -2.2 | -1.2 | 3 | C |
| 11 | 360 | 13.7 | 0 | C | 3.2 | 17 | 310 | 1.9 | -2.2 | 0.9 | 1 | C |
| 12 | 359 | 12.5 | 0 | C | 3.4 | 17 | 323 | 2.6 | -2.0 | 1.0 | 1 | C |
| 13 | 352 | 10.1 | 0 | C | 4.9 | 23 | 327 | 3.8 | -2.5 | 1.8 | 0 | C |
| 14 | 347 | 9.6 | 0 | C | 4.2 | 19 | 331 | 3.5 | -2.0 | 1.2 | 1 | C |
| 15 | 371 | 12.9 | 0 | C | 2.3 | 28 | 350 | 2.0 | -0.5 | 1.0 | 1 | C |
| 16 | 360 | 16.0 | 0 | C | 2.0 | 49 | 4 | 1.3 | -0.1 | 1.5 | 0 | C |
| 17 | 348 | 15.3 | 0 | C | 2.5 | 9 | 358 | 2.5 | -0.2 | 0.4 | 0 | C |
| 18 | 348 | 15.3 | 0 | C | 2.2 | 4 | 354 | 2.2 | -0.2 | 0.1 | 0 | C |
| 19 | 338 | 14.5 | 0 | C | 2.5 | -7 | 354 | 2.4 | -0.2 | -0.4 | 0 | C |
| 20 | 326 | 14.1 | 0 | C | 2.3 | 8 | 328 | 1.9 | -1.2 | -0.1 | 0 | C |
| 21 | 336 | 14.7 | 0 | C | 2.4 | 17 | 318 | 1.6 | -1.6 | 0.1 | 1 | C |
| 22 | 327 | 13.3 | 0 | C | 4.5 | 25 | 288 | 1.2 | -3.9 | 0.1 | 2 | C |
| 23 | 322 | 10.7 | 0 | C | 3.7 | 52 | 305 | 1.1 | -2.5 | 1.6 | 2 | C |
| 24 | 326 | 13.8 | 0 | C | 3.0 | 28 | 274 | 0.2 | -2.9 | 0.2 | 1 | C |

### JAN. 21, 1982

21

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 324 | 15.0 | 0 | C | 3.2 | 21 | 240 | -1.3 | -2.5 | -0.0 | 1 | C |
| 2 | 316 | 14.4 | 0 | C | 4.6 | 17 | 266 | -0.3 | -4.4 | -0.4 | 1 | C |
| 3 | 331 | 15.9 | 0 | C | 6.4 | 18 | 262 | -0.9 | -6.3 | -0.2 | 1 | C |
| 4 | 341 | 19.5 | 0 | C | 8.5 | 8 | 255 | -2.2 | -8.1 | -1.2 | 1 | C |
| 5 | 343 | 21.5 | 0 | C | 8.1 | 9 | 258 | -1.6 | -7.4 | -0.6 | 3 | C |
| 6 | 347 | 23.1 | 0 | C | 8.1 | 21 | 277 | 0.8 | -7.5 | 1.5 | 2 | C |
| 7 | 352 | 21.7 | 0 | C | 10.8 | -6 | 262 | -1.4 | -10.4 | -2.4 | 1 | C |
| 8 | 378 | 25.6 | 0 | C | 13.0 | -20 | 258 | -2.3 | -11.1 | -5.2 | 3 | C |
| 9 | 395 | 25.9 | 0 | C | 16.8 | 0 | 264 | -1.4 | -14.5 | -0.7 | 7 | C |
| 10 | 410 | 30.1 | 0 | C | 18.0 | 13 | 267 | -1.0 | -16.8 | 3.6 | 4 | C |
| 11 | 416 | 38.9 | 0 | C | 18.4 | 23 | 250 | -3.8 | -10.6 | 4.7 | 13 | C |
| 12 | 425 | 43.8 | 0 | C | 14.8 | 45 | 102 | -2.0 | 9.6 | 10.0 | 5 | C |
| 13 | 432 | 54.5 | 0 | C | 11.9 | 31 | 101 | -1.9 | 9.3 | 6.2 | 4 | C |
| 14 | 452 | 73.7 | 0 | C | 10.5 | 44 | 212 | -6.0 | -4.2 | 6.6 | 3 | C |
| 15 | 477 | 60.7 | 0 | C | 11.9 | 68 | 268 | -0.2 | -5.0 | 9.3 | 5 | C |
| 16 | 478 | 60.3 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 465 | 42.0 | 0 | C | 16.5 | 1 | 119 | -2.9 | 5.2 | 1.1 | 15 | C |
| 18 | 465 | 42.0 | 0 | C | 16.2 | -52 | 151 | -1.2 | 1.1 | -1.5 | 16 | C |
| 19 | 442 | 47.9 | 0 | C | 18.6 | 25 | 89 | 0.2 | 12.4 | 11.3 | 7 | C |
| 20 | 444 | 43.6 | 0 | C | 20.6 | 17 | 92 | -0.8 | 15.9 | 12.0 | 5 | C |
| 21 | 427 | 35.4 | 0 | C | 20.0 | 12 | 89 | 0.4 | 15.5 | 10.8 | 6 | C |
| 22 | 432 | 27.4 | 0 | C | 19.5 | 40 | 102 | -2.9 | 7.8 | 16.7 | 5 | C |
| 23 | 438 | 25.7 | 0 | C | 18.2 | 33 | 110 | -5.1 | 8.5 | 14.6 | 4 | C |
| 24 | 443 | 28.0 | 0 | C | 18.4 | -29 | 128 | -2.6 | 4.0 | -0.7 | 17 | C |

### JAN. 22, 1982

22

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 482 | 30.5 | 0 | C | 17.0 | 0 | 241 | -8.0 | -13.0 | -5.8 | 4 | C |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 481 | 14.4 | 0 | C | 10.0 | -8 | 170 | -8.0 | 1.8 | -0.6 | 4 | C |
| 4 | 517 | 13.2 | 0 | C | 9.9 | -42 | 179 | -5.6 | 1.6 | -4.7 | 5 | C |
| 5 | 517 | 11.8 | 0 | C | 8.5 | -36 | 183 | -5.4 | 0.7 | -3.9 | 4 | C |
| 6 | 529 | 10.1 | 0 | C | 8.1 | -54 | 188 | -3.9 | 0.4 | -5.4 | 4 | C |
| 7 | 519 | 9.3 | 0 | C | 7.7 | -36 | 152 | -4.4 | 2.8 | -3.3 | 4 | C |
| 8 | 519 | 7.8 | 0 | C | 7.8 | -43 | 182 | -5.4 | 0.2 | -5.0 | 2 | C |
| 9 | 523 | 7.8 | 0 | C | 7.4 | -45 | 236 | -2.7 | -3.7 | -4.9 | 2 | C |
| 10 | 512 | 7.4 | 0 | C | 6.7 | -63 | 220 | -2.0 | -1.6 | -5.1 | 3 | C |
| 11 | 491 | 7.7 | 0 | C | 6.7 | -69 | 178 | -2.0 | 0.2 | -5.3 | 3 | C |
| 12 | 484 | 8.6 | 0 | C | 4.2 | -33 | 169 | -2.2 | 0.5 | -1.4 | 2 | C |
| 13 | 504 | 8.4 | 84 | J | 5.3 | 1 | 164 | -4.4 | 1.3 | 0.2 | 3 | C |
| 14 | 484 | 9.5 | 0 | C | 5.4 | -50 | 204 | -3.0 | -1.0 | -3.9 | 2 | C |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 482 | 8.9 | 0 | C | 5.8 | -9 | 248 | -2.1 | -4.9 | -1.6 | 1 | C |
| 17 | 475 | 8.4 | 0 | C | 7.8 | -22 | 268 | -0.2 | -6.2 | -4.2 | 2 | C |
| 18 | 471 | 11.4 | 0 | C | 6.4 | -13 | 257 | -0.7 | -2.7 | -1.5 | 6 | C |
| 19 | 500 | 13.9 | 0 | C | 6.4 | -14 | 17 | 5.9 | 2.2 | -0.9 | 0 | C |
| 20 | 497 | 12.9 | 0 | C | 8.2 | -30 | 337 | 6.4 | -1.2 | -4.7 | 2 | C |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 476 | 19.4 | 0 | C | 5.8 | -27 | 55 | 2.6 | 4.3 | -0.6 | 3 | C |
| 23 | 480 | 24.3 | 0 | C | 3.9 | 1 | 110 | -1.2 | 2.9 | 1.4 | 2 | C |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

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OF POOR QUALITY**

23

### JAN. 23, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 482 | 27.2 | 0 | C | 5.0 | -51 | 93 | -0.1 | 3.2 | -1.6 | 4 | C |
| 2 | 465 | 19.9 | 34 | J | 7.1 | -41 | 59 | 2.6 | 5.7 | -2.3 | 2 | J |
| 3 | 478 | 18.7 | 54 | J | 10.0 | -47 | 10 | 6.2 | 3.4 | -6.0 | 4 | J |
| 4 | 467 | 23.2 | 57 | J | 11.4 | -19 | 300 | 4.9 | -7.5 | -4.2 | 6 | J |
| 5 | 465 | 17.8 | 0 | C | 8.4 | -7 | 88 | 0.2 | 5.0 | 0.6 | 7 | C |
| 6 | 460 | 18.3 | 0 | C | 6.7 | -24 | 102 | -1.0 | 4.7 | -1.1 | 4 | C |
| 7 | 451 | 15.2 | 0 | C | 7.4 | -30 | 105 | -1.4 | 5.7 | -2.4 | 4 | C |
| 8 | 459 | 11.6 | 0 | C | 8.7 | -9 | 135 | -5.6 | 5.6 | -0.7 | 3 | C |
| 9 | 465 | 10.0 | 73 | J | 8.8 | 12 | 144 | -6.1 | 4.3 | 1.8 | 4 | J |
| 10 | 469 | 9.4 | 96 | J | 8.7 | 16 | 134 | -5.5 | 5.6 | 2.4 | 3 | J |
| 11 | 462 | 14.4 | 0 | C | 8.3 | -30 | 121 | -3.0 | 5.2 | -3.3 | 4 | C |
| 12 | 470 | 14.2 | 0 | C | 9.9 | -8 | 110 | -2.9 | 7.9 | -0.9 | 4 | C |
| 13 | 505 | 14.8 | 122 | J | 9.7 | -36 | 88 | 0.3 | 7.9 | -5.2 | 3 | J |
| 14 | 487 | 14.6 | 136 | J | 9.9 | -2 | 120 | -3.4 | 6.0 | 0.2 | 7 | J |
| 15 | 479 | 14.2 | 126 | J | 11.1 | 9 | 124 | -5.9 | 8.5 | 2.7 | 3 | J |
| 16 | 482 | 14.3 | 141 | J | 10.4 | 11 | 131 | -6.2 | 6.8 | 3.0 | 4 | J |
| 17 | 508 | 16.7 | 0 | C | 9.9 | 25 | 168 | -7.3 | 0.8 | 3.8 | 5 | C |
| 18 | 510 | 16.1 | 0 | C | 10.3 | 6 | 151 | -8.5 | 4.3 | 2.2 | 2 | C |
| 19 | 517 | 16.2 | 0 | C | 9.9 | -8 | 137 | -6.7 | 6.3 | 0.8 | 2 | C |
| 20 | | | | | | | | | | | | |
| 21 | 534 | 19.0 | 0 | C | | | | | | | | |
| 22 | 534 | 19.0 | 0 | C | 9.6 | -28 | 104 | -1.6 | 7.5 | -0.5 | 5 | C |
| 23 | 542 | 19.6 | 0 | C | 8.9 | -37 | 90 | 0.0 | 6.9 | -1.4 | 4 | C |
| 24 | 530 | 16.2 | 0 | C | 10.5 | -9 | 127 | -5.9 | 7.8 | 2.0 | 3 | C |

25

### JAN. 25, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 559 | 8.4 | 0 | C | 5.6 | 77 | 136 | -0.7 | -1.2 | 4.3 | 3 | C |
| 2 | 567 | 7.2 | 0 | C | 4.3 | 56 | 184 | -1.6 | -1.1 | 2.1 | 2 | C |
| 3 | 567 | 6.2 | 0 | C | 4.5 | -35 | 114 | -1.1 | 3.1 | -0.9 | 3 | C |
| 4 | 561 | 5.7 | 0 | C | 4.3 | 6 | 153 | -2.4 | 1.1 | 0.7 | 3 | C |
| 5 | 572 | 4.6 | 0 | C | 3.9 | -4 | 143 | -2.3 | 1.8 | 0.3 | 2 | C |
| 6 | 578 | 4.1 | 0 | C | 3.8 | 16 | 128 | -1.5 | 1.7 | 1.1 | 3 | C |
| 7 | 589 | 3.7 | 0 | C | 3.4 | 6 | 147 | -2.6 | 1.6 | 0.6 | 1 | C |
| 8 | 581 | 3.5 | 0 | C | 3.4 | 5 | 131 | -1.4 | 1.5 | 0.4 | 3 | C |
| 9 | 572 | 3.7 | 0 | C | 3.6 | 31 | 191 | -2.4 | -0.5 | 1.4 | 2 | C |
| 10 | 561 | 3.8 | 0 | C | 4.1 | 15 | 191 | -3.7 | -0.8 | 1.0 | 1 | C |
| 11 | 528 | 4.2 | 0 | C | 4.1 | 7 | 189 | -4.0 | -0.7 | 0.5 | 1 | C |
| 12 | 483 | 4.5 | 0 | C | 3.9 | -1 | 185 | -3.4 | -0.3 | -0.1 | 1 | C |
| 13 | 527 | 3.7 | 0 | C | 3.6 | -3 | 143 | -2.7 | 2.1 | -0.0 | 1 | C |
| 14 | 556 | 2.7 | 93 | J | 3.8 | -15 | 161 | -3.4 | 1.2 | -0.8 | 1 | J |
| 15 | 566 | 3.1 | 98 | J | 3.3 | -28 | 162 | -2.7 | 1.1 | -1.4 | 1 | J |
| 16 | 545 | 3.8 | 0 | C | 3.9 | 43 | 141 | -2.1 | 1.2 | 2.8 | 1 | C |
| 17 | 527 | 3.5 | 62 | J | 3.4 | 34 | 145 | -2.1 | 1.0 | 2.0 | 1 | J |
| 18 | 524 | 4.1 | 0 | C | 3.6 | 21 | 114 | -1.0 | 2.0 | 1.6 | 2 | C |
| 19 | 525 | 4.5 | 0 | C | 3.7 | 68 | 135 | -0.9 | -0.2 | 3.1 | 2 | C |
| 20 | 518 | 3.4 | 83 | J | 3.8 | 35 | 219 | -2.1 | -2.3 | 1.1 | 2 | J |
| 21 | 515 | 4.0 | 0 | C | 4.2 | 12 | 220 | -2.9 | -2.5 | -0.3 | 1 | C |
| 22 | 526 | 3.9 | 0 | C | 3.2 | 47 | 185 | -1.9 | -1.0 | 1.8 | 1 | C |
| 23 | 524 | 3.9 | 0 | C | 3.3 | 18 | 140 | -2.0 | 1.2 | 1.5 | 2 | C |
| 24 | 530 | 3.9 | 0 | C | 3.2 | 23 | 188 | -2.4 | -0.8 | 0.8 | 2 | C |

27

### JAN. 27, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 457 | 14.4 | 0 | C | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 417 | 16.6 | 0 | C | 5.8 | 33 | 16 | 4.5 | 0.8 | 3.2 | 1 | C |
| 8 | 409 | 13.0 | 37 | J | 4.7 | 52 | 46 | 2.0 | 1.6 | 3.9 | 1 | J |
| 9 | 403 | 12.4 | 44 | J | 4.2 | 14 | 43 | 2.8 | 2.6 | 1.2 | 1 | J |
| 10 | 398 | 11.4 | 51 | J | 3.5 | -34 | 66 | 0.8 | 1.8 | -1.2 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 400 | 11.8 | 49 | J | 6.6 | -40 | 55 | 2.7 | 4.4 | -3.4 | 2 | J |
| 16 | 393 | 12.4 | 54 | J | 6.4 | -39 | 64 | 2.1 | 5.1 | -3.1 | 1 | J |
| 17 | 372 | 13.8 | 0 | C | 5.9 | -25 | 91 | -0.1 | 5.7 | -1.1 | 1 | C |
| 18 | 380 | 12.9 | 46 | J | 6.1 | -12 | 118 | -2.5 | 4.8 | 0.3 | 3 | J |
| 19 | 384 | 13.9 | 50 | J | 6.0 | -31 | 80 | 0.9 | 5.6 | -1.2 | 2 | J |
| 20 | 389 | 15.9 | 44 | J | 6.9 | -19 | 56 | 3.6 | 5.8 | -0.0 | 1 | J |
| 21 | | | | | | | | | | | | |
| 22 | 386 | 19.7 | 44 | J | 7.4 | -41 | 64 | 2.4 | 6.5 | -2.1 | 1 | J |
| 23 | 392 | 21.3 | 47 | J | 8.3 | -31 | 48 | 4.5 | 6.3 | -1.4 | 2 | J |
| 24 | 394 | 25.1 | 53 | J | 8.3 | -26 | 47 | 5.0 | 6.4 | -0.8 | 2 | J |

29

### JAN. 29, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 346 | 10.2 | 0 | C | 7.9 | 5 | 116 | -3.3 | 5.8 | 3.6 | 2 | C |
| 2 | 372 | 7.7 | 0 | C | 6.9 | 5 | 134 | -4.7 | 4.2 | 2.6 | 1 | C |
| 3 | 371 | 8.0 | 0 | C | 6.5 | 8 | 129 | -4.0 | 4.3 | 2.8 | 0 | C |
| 4 | 371 | 8.4 | 0 | C | 6.0 | -17 | 184 | -5.5 | 0.2 | -1.8 | 1 | C |
| 5 | 380 | 10.0 | 0 | C | 5.1 | -5 | 167 | -5.0 | 1.2 | -0.1 | 0 | C |
| 6 | 377 | 11.8 | 0 | C | 5.1 | 10 | 178 | -4.9 | -0.0 | 0.9 | 1 | C |
| 7 | 377 | 11.0 | 0 | C | 5.8 | 13 | 168 | -5.3 | 0.9 | 1.4 | 2 | C |
| 8 | 377 | 11.7 | 23 | J | 5.2 | 8 | 177 | -4.9 | 0.2 | 0.7 | 1 | J |
| 9 | 380 | 12.0 | 31 | J | 6.0 | 14 | 160 | -5.3 | 1.8 | 1.6 | 2 | J |
| 10 | 374 | 12.9 | 23 | J | 5.8 | 21 | 157 | -5.0 | 2.0 | 2.2 | 0 | J |
| 11 | 388 | 14.8 | 0 | C | 6.2 | 19 | 151 | -5.1 | 2.7 | 2.2 | 1 | C |
| 12 | 388 | 14.8 | 0 | C | 6.4 | 14 | 145 | -5.0 | 3.5 | 1.8 | 0 | C |
| 13 | 373 | 16.0 | 0 | C | 6.9 | 10 | 150 | -5.7 | 3.1 | 1.4 | 2 | C |
| 14 | 374 | 15.8 | 24 | J | 8.4 | -11 | 192 | -7.7 | -1.4 | -1.7 | 3 | J |
| 15 | 383 | 24.1 | 37 | J | 9.4 | 27 | 217 | -6.6 | -5.5 | 3.4 | 1 | J |
| 16 | 379 | 26.0 | 33 | J | 9.6 | 24 | 213 | -7.4 | -5.5 | 2.9 | 0 | J |
| 17 | 397 | 36.0 | 0 | C | 9.1 | 52 | 276 | 0.5 | -6.5 | 5.1 | 4 | C |
| 18 | 410 | 47.8 | 0 | C | 19.2 | -10 | 274 | 0.7 | -8.8 | -4.5 | 17 | J |
| 19 | | | | | 19.7 | 74 | 125 | -1.8 | -1.4 | 11.3 | 16 | J |
| 20 | 457 | 34.1 | 0 | C | 23.2 | 33 | 120 | -9.4 | 10.3 | 17.6 | 6 | J |
| 21 | 454 | 18.8 | 0 | C | 19.9 | 22 | 116 | -6.7 | 9.9 | 11.4 | 11 | J |
| 22 | 493 | 18.7 | 0 | C | 11.5 | 27 | 111 | -2.6 | 4.4 | 6.3 | 8 | J |
| 23 | 554 | 19.6 | 0 | C | 11.9 | 5 | 139 | -8.4 | 6.1 | 4.2 | 4 | J |
| 24 | 566 | 21.2 | 0 | C | 10.5 | -8 | 120 | -4.3 | 7.2 | 2.4 | 6 | J |

24

### JAN. 24, 1982

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 537 | 15.5 | 0 | C | 10.9 | -11 | 129 | -6.2 | 7.8 | 1.6 | 3 | C |
| 559 | 15.7 | 0 | C | 9.0 | 33 | 159 | -3.5 | 0.3 | 2.7 | 7 | C |
| 553 | 16.8 | 0 | C | 8.9 | 9 | 185 | -7.1 | -1.0 | 0.9 | 4 | C |
| 531 | 15.4 | 0 | C | 9.3 | -5 | 193 | -8.3 | -1.6 | -1.2 | 3 | C |
| 552 | 16.3 | 0 | C | 10.3 | -8 | 214 | -7.2 | -4.4 | -2.4 | 4 | C |
| 567 | 13.2 | 223 | J | 8.9 | 27 | 221 | -5.0 | -5.0 | 2.5 | 5 | J |
| 565 | 14.8 | 0 | C | 9.4 | -8 | 131 | -4.3 | 5.0 | -0.2 | 6 | C |
| 555 | 13.2 | 0 | C | 10.0 | -12 | 143 | -6.6 | 5.2 | -1.3 | 5 | C |
| 552 | 12.6 | 0 | C | 9.6 | 5 | 152 | -8.0 | 4.2 | 1.0 | 3 | C |
| 554 | 9.3 | 121 | J | 9.3 | 12 | 151 | -7.0 | 3.8 | 1.8 | 4 | J |
| 552 | 8.7 | 107 | J | 9.1 | -12 | 146 | -7.2 | 4.9 | -1.7 | 2 | J |
| 554 | 9.2 | 0 | C | 9.2 | 4 | 150 | -7.0 | 4.1 | 0.7 | 3 | C |
| 553 | 8.7 | 0 | C | 9.5 | -7 | 126 | -5.0 | 6.9 | -0.6 | 4 | C |
| 582 | 7.9 | 167 | J | 9.4 | -20 | 86 | 0.6 | 8.1 | -2.2 | 4 | J |
| 552 | 8.2 | 172 | J | 8.4 | -8 | 109 | -2.2 | 6.5 | -0.2 | 5 | J |
| 571 | 11.0 | 207 | J | 7.4 | -51 | 101 | -0.6 | 3.8 | -3.4 | 5 | J |
| 516 | 12.0 | 0 | C | 8.1 | 8 | 125 | -4.4 | 5.9 | 2.4 | 1 | C |
| 520 | 13.3 | 0 | C | 7.9 | 17 | 144 | -4.6 | 2.7 | 2.6 | 4 | C |
| 529 | 13.7 | 0 | C | 8.3 | 51 | 105 | -1.1 | 2.1 | 6.0 | 4 | C |
| 531 | 14.1 | 0 | C | 8.4 | -32 | 91 | -0.1 | 6.1 | -1.2 | 3 | C |
| 535 | 14.1 | 0 | C | 7.9 | -33 | 107 | -1.4 | 5.3 | -1.0 | 4 | C |
| 537 | 12.1 | 0 | C | 6.8 | -24 | 142 | -3.0 | 2.8 | -0.5 | 5 | C |
| 554 | 10.7 | 0 | C | 6.4 | 20 | 130 | -2.0 | 1.7 | 2.1 | 5 | C |
| 562 | 9.8 | 0 | C | 5.1 | -4 | 226 | -1.9 | -1.7 | -1.0 | 3 | C |

26

### JAN. 26, 1982

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 524 | 3.9 | 0 | C | 3.4 | 25 | 186 | -2.6 | -0.8 | 1.0 | 1 | C |
| 519 | 4.0 | 0 | C | 3.7 | 14 | 188 | -3.3 | -0.7 | 0.6 | 1 | C |
| 521 | 4.2 | 0 | C | 4.0 | 29 | 169 | -3.2 | -0.1 | 1.8 | 1 | C |
| 521 | 4.4 | 0 | C | 3.8 | 35 | 160 | -2.6 | 0.3 | 2.2 | 1 | C |
| 512 | 4.8 | 0 | C | 4.0 | 32 | 85 | 0.3 | 2.3 | 2.5 | 2 | J |
| 517 | 5.3 | 0 | C | 4.3 | 2 | 57 | 2.2 | 3.2 | 0.8 | 1 | J |
| 489 | 6.2 | 0 | C | 4.2 | 43 | 120 | -0.9 | 1.3 | 1.9 | 3 | C |
| 487 | 6.4 | 0 | C | 4.2 | 60 | 49 | 0.9 | 0.8 | 2.6 | 3 | C |
| 497 | 4.7 | 55 | J | 4.0 | 48 | 148 | -1.9 | 1.0 | 2.5 | 2 | J |
| 480 | 4.5 | 296 | J | 3.9 | 12 | 172 | -3.2 | 0.4 | 0.7 | 2 | J |
| 507 | 4.3 | 64 | J | 4.0 | -10 | 137 | -2.5 | 2.4 | -0.5 | 2 | J |
| 482 | 4.7 | 131 | J | 4.3 | -13 | 152 | -3.6 | 2.0 | -0.9 | 1 | J |
| 473 | 4.5 | 85 | J | 4.6 | 3 | 147 | -3.8 | 2.4 | 0.4 | 1 | J |
| 467 | 4.3 | 54 | J | 4.5 | 15 | 151 | -3.5 | 1.9 | 1.3 | 1 | J |
| 479 | 5.1 | 67 | J | 4.7 | 35 | 139 | -2.7 | 2.0 | 2.8 | 2 | J |
| 458 | 7.0 | 0 | C | 4.4 | 22 | 137 | -2.8 | 2.3 | 2.0 | 2 | J |
| 458 | 7.0 | 0 | C | 5.1 | 30 | 122 | -2.1 | 2.7 | 3.0 | 2 | J |
| 464 | 6.6 | 58 | J | 4.4 | -1 | 181 | -3.2 | -0.0 | -0.1 | 3 | J |
| 458 | 6.3 | 41 | J | 4.8 | -13 | 207 | -4.1 | -1.6 | -1.7 | 1 | J |
| | | | | | | | | | | | |
| 456 | 8.6 | 69 | J | 6.0 | -27 | 167 | -5.0 | 2.1 | -1.9 | 2 | J |
| | | | | | | | | | | | |
| 464 | 10.5 | 117 | J | 5.0 | -31 | 124 | -1.6 | 2.9 | -0.5 | 4 | J |
| 461 | 11.4 | 138 | J | 4.6 | -40 | 190 | -3.5 | 0.8 | -2.9 | 1 | J |

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### JAN. 28, 1982

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 419 | 27.6 | 0 | C | 9.5 | -12 | 60 | 4.4 | 7.8 | 1.6 | 3 | C |
| 415 | 28.8 | 0 | C | 10.8 | -23 | 53 | 5.8 | 8.6 | -0.5 | 3 | C |
| 375 | 14.4 | 0 | C | 10.9 | -42 | 49 | 5.3 | 8.4 | -4.3 | 0 | C |
| 377 | 10.6 | 0 | C | 14.4 | 28 | 67 | 4.9 | 8.8 | 10.1 | 2 | C |
| 357 | 8.7 | 0 | C | 14.4 | 23 | 71 | 4.3 | 10.1 | 8.7 | 3 | C |
| 341 | 7.0 | 0 | C | 14.9 | 25 | 70 | 4.5 | 10.9 | 8.8 | 2 | C |
| 358 | 7.5 | 0 | C | 14.2 | 13 | 59 | 6.9 | 10.6 | 4.9 | 4 | C |
| 362 | 2.3 | 137 | L | 16.3 | -51 | 115 | -4.3 | 10.6 | -11.2 | 3 | J |
| 394 | 4.4 | 48 | J | 18.8 | -60 | 141 | -6.8 | 6.8 | -14.7 | 7 | J |
| 382 | 8.3 | 0 | C | 16.1 | -71 | 142 | -3.2 | 3.2 | -11.2 | 10 | C |
| 373 | 25.0 | 0 | C | 6.7 | 11 | 17 | 5.6 | 1.7 | 1.2 | 3 | C |
| 352 | 27.1 | 0 | C | 8.2 | -17 | 11 | 7.0 | 1.4 | -2.1 | 4 | C |
| 334 | 26.3 | 0 | C | 11.4 | 40 | 231 | -4.7 | -6.3 | 5.8 | 5 | C |
| 330 | 29.7 | 0 | C | 11.5 | 27 | 241 | -4.9 | -9.3 | 4.1 | 3 | C |
| 354 | 35.7 | 52 | J | 13.5 | 20 | 190 | -11.1 | -2.5 | 3.8 | 6 | J |
| 353 | 39.5 | 0 | C | 16.7 | 48 | 143 | -8.6 | 4.1 | 13.2 | 3 | C |
| 339 | 29.1 | 0 | C | 16.9 | 30 | 107 | -3.9 | 10.6 | 10.8 | 6 | C |
| 342 | 9.2 | 37 | J | 16.8 | 14 | 86 | 1.1 | 14.4 | 8.7 | 1 | J |
| 338 | 11.4 | 36 | J | 15.2 | 15 | 84 | 1.5 | 12.3 | 8.6 | 2 | J |
| 331 | 12.7 | 38 | J | 14.2 | 7 | 92 | -0.5 | 12.1 | 6.8 | 3 | J |
| 322 | 12.9 | 39 | J | 12.9 | 6 | 91 | -0.2 | 11.1 | 6.6 | 1 | J |
| 306 | 15.0 | 0 | C | 13.5 | -2 | 85 | 1.2 | 12.1 | 5.4 | 3 | C |
| 350 | 9.7 | 110 | J | 9.5 | 3 | 112 | -3.5 | 7.5 | 4.4 | 2 | J |
| 357 | 8.2 | 47 | J | 9.0 | -13 | 91 | -0.1 | 8.1 | 2.1 | 3 | J |

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### JAN. 30, 1982

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 564 | 22.1 | 0 | C | 9.4 | 1 | 150 | -6.9 | 3.5 | 1.9 | 5 | J |
| 587 | 18.2 | 0 | C | 12.5 | -23 | 153 | -7.2 | 4.8 | -1.5 | 8 | C |
| 622 | 13.3 | 0 | C | 15.0 | -29 | 134 | -6.6 | 8.3 | -2.1 | 9 | C |
| 625 | 12.6 | 0 | C | 14.3 | -4 | 133 | -8.4 | 8.6 | 2.3 | 6 | C |
| 614 | 11.8 | 0 | C | 13.2 | 4 | 137 | -8.1 | 7.0 | 3.0 | 5 | C |
| 599 | 9.8 | 0 | C | 10.0 | 4 | 149 | -7.3 | 4.2 | 1.7 | 4 | C |
| 590 | 8.0 | 0 | C | 9.0 | 1 | 171 | -7.8 | 1.1 | 0.3 | 3 | C |
| 610 | 8.3 | 0 | C | 8.6 | 6 | 118 | -3.1 | 5.7 | 1.5 | 5 | J |
| 626 | 8.4 | 0 | C | 10.1 | -17 | 122 | -3.7 | 6.1 | -1.6 | 7 | J |
| | | | | 10.4 | -13 | 137 | -6.4 | 6.1 | -1.6 | 5 | J |
| 616 | 7.5 | 0 | C | 8.8 | 8 | 133 | -5.5 | 5.9 | 1.5 | 3 | J |
| 616 | 7.5 | 0 | C | 9.1 | 4 | 133 | -5.8 | 6.2 | 1.0 | 2 | C |
| 596 | 5.3 | 0 | C | 8.6 | -7 | 120 | -3.8 | 6.7 | -0.3 | 4 | J |
| 579 | 4.6 | 0 | C | 8.4 | 17 | 117 | -3.2 | 5.9 | 2.9 | 4 | J |
| 660 | 3.6 | 0 | C | 7.7 | 0 | 151 | -5.1 | 2.8 | 0.4 | 5 | J |
| 682 | 3.7 | 0 | C | 7.6 | 25 | 114 | -2.6 | 5.1 | 4.1 | 3 | J |
| 548 | 4.5 | 0 | C | 7.1 | 4 | 146 | -5.4 | 3.4 | 1.4 | 3 | J |
| 518 | 4.8 | 0 | C | 7.0 | 14 | 131 | -4.1 | 4.0 | 2.9 | 3 | J |
| 587 | 3.2 | 0 | C | 7.2 | 8 | 132 | -4.5 | 4.4 | 2.6 | 2 | J |
| 606 | 2.5 | 239 | L | 7.3 | 3 | 135 | -4.6 | 4.1 | 2.1 | 3 | J |
| 665 | 2.9 | 232 | L | 7.6 | 22 | 37 | 5.3 | 2.4 | 4.2 | 2 | C |
| 654 | 2.3 | 187 | L | 8.1 | 6 | 34 | 6.2 | 3.4 | 2.5 | 3 | C |
| 627 | 3.3 | 239 | L | 7.6 | -11 | 72 | 1.8 | 5.5 | 1.6 | 4 | C |
| 611 | 2.8 | 216 | L | 7.9 | 7 | 111 | -2.5 | 5.5 | 3.9 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 590 | 5.2 | 0 | C | 8.4 | 7 | 100 | -1.4 | 6.4 | 4.4 | 2 | C |
| 2 | 602 | 8.9 | 0 | C | 14.5 | -26 | 117 | -5.8 | 12.7 | -0.6 | 2 | C |
| 3 | 588 | 10.5 | 0 | C | 14.5 | -20 | 119 | -6.4 | 12.4 | 0.1 | 2 | C |
| 4 | 588 | 13.2 | 0 | C | 12.9 | -14 | 121 | -6.2 | 10.8 | 0.7 | 3 | C |
| 5 | 616 | 16.5 | 0 | C | 13.0 | -30 | 112 | -4.1 | 11.4 | -3.0 | 3 | C |
| 6 | 661 | 22.2 | 0 | C | 10.1 | 14 | 88 | 0.3 | 6.0 | 3.2 | 6 | C |
| 7 | 669 | 24.9 | 0 | C | 8.8 | 36 | 92 | -0.3 | 5.2 | 5.6 | 4 | C |
| 8 | 642 | 24.1 | 0 | C | 9.1 | 7 | 117 | -3.6 | 7.0 | 1.9 | 4 | C |
| 9 | 612 | 21.8 | 0 | C | 10.1 | -7 | 136 | -7.1 | 7.0 | -0.5 | 0 | C |
| 10 | 601 | 21.0 | 0 | C | 6.8 | -12 | 91 | -0.1 | 5.0 | -0.6 | 4 | C |
| 11 | 598 | 21.6 | 0 | C | 8.0 | 41 | 160 | -5.2 | 1.5 | 5.0 | 0 | C |
| 12 | 594 | 23.5 | 0 | C | 6.5 | -35 | 338 | 4.2 | -1.4 | -3.2 | 3 | C |
| 13 | 585 | 23.7 | 0 | C | 8.6 | -61 | 271 | 0.0 | -3.0 | -6.7 | 4 | C |
| 14 | 595 | 26.9 | 0 | C | 10.7 | -65 | 44 | 3.1 | 4.2 | -5.0 | 2 | C |
| 15 | 594 | 28.8 | 0 | C | 10.0 | -44 | 74 | 1.5 | 6.2 | -4.5 | 6 | C |
| 16 | 569 | 24.6 | 0 | C | 12.6 | -37 | 89 | 0.1 | 11.3 | -5.2 | 1 | C |
| 17 | 525 | 17.2 | 0 | C | 13.6 | -29 | 79 | 2.2 | 12.8 | -3.2 | 2 | C |
| 18 | 497 | 13.1 | 0 | C | 13.2 | -32 | 85 | 1.0 | 12.6 | -3.2 | 1 | C |
| 19 | | | | | | | | | | | | |
| 20 | 399 | 7.8 | 0 | C | 13.8 | 24 | 139 | -9.5 | 5.4 | 8.4 | 1 | C |
| 21 | 377 | 7.1 | 0 | C | 14.7 | 29 | 143 | -10.3 | 3.9 | 9.6 | 1 | C |
| 22 | 444 | 8.7 | 0 | C | 14.6 | 29 | 146 | -10.5 | 3.2 | 9.5 | 1 | C |
| 23 | 453 | 7.6 | 0 | C | 14.2 | 29 | 150 | -10.7 | 2.2 | 8.8 | 2 | C |
| 24 | | | | | | | | | | | | |

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32

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 7.5 | 0 | C | 14.4 | 16 | 161 | -13.0 | 2.3 | 5.5 | 1 | C |
| 2 | 419 | 7.1 | 0 | C | 14.5 | 13 | 164 | -13.5 | 2.1 | 4.7 | 1 | C |
| 3 | 455 | 5.6 | 0 | C | 14.0 | -4 | 163 | -12.8 | 4.0 | 0.8 | 4 | C |
| 4 | 495 | 2.8 | 0 | C | 14.6 | -15 | 162 | -13.4 | 5.4 | -1.9 | 1 | C |
| 5 | 503 | 2.7 | 0 | C | 14.5 | -12 | 164 | -13.6 | 4.7 | -1.6 | 1 | C |
| 6 | 503 | 2.7 | 0 | C | 14.4 | -9 | 166 | -13.7 | 3.8 | -1.5 | 1 | C |
| 7 | 502 | 2.5 | 0 | C | 13.7 | -7 | 168 | -13.3 | 3.1 | -1.1 | 0 | C |
| 8 | 498 | 2.5 | 0 | C | 14.0 | -7 | 166 | -13.5 | 3.5 | -1.2 | 0 | C |
| 9 | 495 | 2.6 | 0 | C | 13.7 | -6 | 170 | -13.3 | 2.4 | -1.1 | 1 | C |
| 10 | 494 | 2.6 | 0 | C | 13.4 | -4 | 174 | -13.2 | 1.4 | -0.9 | 1 | C |
| 11 | 472 | 4.9 | 0 | C | 13.3 | 2 | 179 | -13.2 | 0.2 | 0.4 | 1 | C |
| 12 | 547 | 12.6 | 0 | C | 25.3 | -13 | 190 | -22.5 | -3.4 | -5.4 | 11 | C |
| 13 | 605 | 14.1 | 0 | C | 27.2 | -33 | 149 | -19.0 | 12.9 | -13.2 | 5 | C |
| 14 | 562 | 13.9 | 0 | C | 25.7 | 9 | 187 | -22.7 | -3.2 | 3.4 | 10 | C |
| 15 | 513 | 11.7 | 0 | C | 23.0 | 36 | 202 | -15.3 | -8.0 | 10.8 | 10 | C |
| 16 | 554 | 14.3 | 0 | C | 22.6 | 37 | 221 | -13.2 | -14.2 | 10.5 | 5 | C |
| 17 | 611 | 22.9 | 0 | C | 15.4 | 76 | 271 | 0.1 | -6.8 | 12.0 | 6 | C |
| 18 | 598 | 25.1 | 0 | C | 12.6 | -47 | 199 | -6.0 | 0.2 | -7.2 | 8 | C |
| 19 | 607 | 32.9 | 0 | C | 11.2 | -48 | 237 | -2.1 | -1.4 | -5.0 | 9 | C |
| 20 | 617 | 42.2 | 0 | C | 9.1 | -28 | 338 | 4.2 | -0.6 | -3.0 | 7 | C |
| 21 | 605 | 30.3 | 0 | C | 9.9 | -23 | 265 | -0.6 | -4.8 | -5.5 | 5 | C |
| 22 | 595 | 20.2 | 0 | C | 4.9 | 72 | 45 | 0.2 | -0.2 | 0.8 | 5 | C |
| 23 | 605 | 16.1 | 0 | C | 7.2 | 38 | 259 | -0.5 | -3.5 | 0.6 | 6 | C |
| 24 | 614 | 14.0 | 0 | C | 8.2 | 41 | 58 | 3.1 | 1.9 | 6.9 | 2 | C |

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33

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 631 | 19.4 | 0 | C | 6.4 | -7 | 72 | 1.3 | 3.9 | 1.4 | 4 | C |
| 2 | 635 | 23.7 | 0 | C | 6.8 | -44 | 255 | -0.8 | -1.4 | -4.1 | 5 | C |
| 3 | 625 | 23.2 | 0 | C | 11.4 | 8 | 262 | -1.4 | -10.5 | -2.9 | 3 | C |
| 4 | 629 | 25.1 | 0 | C | 12.2 | -10 | 254 | -2.4 | -7.2 | -4.4 | 8 | C |
| 5 | 632 | 26.9 | 0 | C | 9.9 | -63 | 237 | -2.2 | -0.8 | -8.8 | 4 | C |
| 6 | 644 | 30.4 | 0 | C | 8.7 | -87 | 13 | 0.4 | 2.1 | -7.6 | 3 | C |
| 7 | 660 | 36.1 | 0 | C | 14.8 | -53 | 273 | 0.5 | -5.5 | -11.5 | 7 | C |
| 8 | 668 | 43.3 | 0 | C | 19.6 | -29 | 268 | -0.6 | -13.6 | -10.3 | 9 | C |
| 9 | 639 | 38.2 | 0 | C | 23.5 | 61 | 72 | 3.5 | 8.3 | 21.3 | 0 | C |
| 10 | 591 | 20.7 | 0 | C | 19.3 | 77 | 356 | 4.3 | -1.9 | 18.0 | 6 | C |
| 11 | 586 | 21.1 | 0 | C | 23.0 | -38 | 85 | 1.6 | 18.7 | -12.5 | 3 | C |
| 12 | 560 | 17.4 | 0 | C | 24.3 | -31 | 80 | 3.5 | 21.3 | -10.5 | 4 | C |
| 13 | 543 | 13.3 | 0 | C | 22.9 | -11 | 80 | 3.9 | 21.3 | -1.8 | 7 | C |
| 14 | 546 | 14.3 | 0 | C | 21.1 | 26 | 71 | 5.9 | 16.0 | 11.4 | 5 | C |
| 15 | 556 | 17.7 | 0 | C | 18.8 | 80 | 99 | -0.5 | -0.0 | 18.3 | 4 | C |
| 16 | 534 | 17.3 | 0 | C | 13.2 | 75 | 113 | -1.3 | 0.3 | 13.0 | 2 | C |
| 17 | 522 | 11.9 | 0 | C | 11.0 | 64 | 107 | -1.4 | 1.7 | 10.4 | 2 | C |
| 18 | 536 | 8.4 | 0 | C | 9.4 | 58 | 71 | 1.6 | 1.8 | 8.5 | 3 | C |
| 19 | 555 | 8.1 | 0 | C | 8.7 | 38 | 55 | 3.8 | 3.1 | 6.7 | 2 | C |
| 20 | 539 | 7.1 | 0 | C | 8.0 | 51 | 26 | 4.3 | -0.5 | 6.1 | 2 | C |
| 21 | 494 | 5.6 | 0 | C | 4.7 | 16 | 9 | 4.2 | 0.0 | 1.4 | 2 | C |
| 22 | 470 | 4.8 | 0 | C | | | | | | | | |
| 23 | 516 | 6.1 | 0 | C | | | | | | | | |
| 24 | 516 | 6.1 | 0 | C | 5.3 | 30 | 24 | 4.1 | 0.3 | 3.2 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 522 | 6.5 | 0 | C | 5.4 | 36 | 30 | 3.7 | 0.5 | 3.7 | 1 | C |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 743 | 7.6 | 0 | C | | | | | | | | |
| 7 | 743 | 7.6 | 0 | C | 13.6 | -45 | 326 | 5.5 | -2.3 | -7.2 | 9 | C |
| 8 | 692 | 4.3 | 0 | C | 9.2 | -50 | 298 | 2.1 | -3.1 | -6.0 | 5 | C |
| 9 | 769 | 3.5 | 0 | C | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 662 | 9.7 | 0 | C | | | | | | | | |
| 16 | 662 | 9.7 | 0 | C | 5.6 | 31 | 221 | -3.0 | -3.1 | 1.7 | 3 | C |
| 17 | 627 | 5.3 | 0 | C | 8.2 | 28 | 217 | -5.5 | -5.0 | 2.4 | 2 | C |
| 18 | 587 | 3.9 | 0 | C | 8.8 | 11 | 205 | -7.7 | -4.0 | 0.4 | 0 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 623 | 2.6 | 0 | C | | | | | | | | |
| 23 | 623 | 2.6 | 0 | C | 8.8 | -32 | 242 | -3.4 | -3.5 | -7.1 | 2 | C |
| 24 | 619 | 2.9 | 0 | C | 9.5 | -39 | 258 | -1.6 | -3.4 | -8.6 | 0 | C |

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35

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 634 | 2.8 | 0 | C | 9.4 | -24 | 244 | -3.7 | -4.9 | -7.0 | 1 | C |
| 2 | 617 | 3.0 | 0 | C | 9.8 | -14 | 246 | -3.6 | -6.5 | -5.7 | 3 | C |
| 3 | 628 | 4.7 | 0 | C | 6.8 | -39 | 215 | -4.0 | -0.9 | -4.8 | 2 | C |
| 4 | 630 | 5.4 | 0 | C | 8.1 | -32 | 225 | -4.6 | -2.7 | -5.4 | 3 | C |
| 5 | 601 | 3.6 | 0 | C | 9.7 | -42 | 238 | -3.7 | -3.6 | -7.8 | 2 | C |
| 6 | 582 | 3.0 | 0 | C | 10.0 | -36 | 235 | -4.7 | -4.9 | -7.3 | 1 | C |
| 7 | 581 | 3.6 | 0 | C | 9.5 | -46 | 227 | -3.9 | -2.9 | -6.6 | 5 | C |
| 8 | 564 | 4.5 | 0 | C | 7.8 | -34 | 16 | 5.9 | 2.3 | -3.8 | 2 | C |
| 9 | 527 | 4.3 | 0 | C | 7.2 | -60 | 246 | -1.4 | -2.3 | -6.2 | 2 | C |
| 10 | 523 | 5.2 | 0 | C | 6.2 | -69 | 266 | -0.2 | -1.5 | -5.3 | 2 | C |
| 11 | 509 | 6.7 | 0 | C | 7.0 | -73 | 355 | 1.9 | 0.4 | -6.4 | 2 | C |
| 12 | 513 | 6.7 | 0 | C | 7.5 | -82 | 299 | 0.4 | -0.2 | -5.9 | 5 | C |
| 13 | 476 | 6.8 | 0 | C | 9.0 | -37 | 216 | -5.7 | -3.5 | -5.8 | 1 | C |
| 14 | 481 | 7.9 | 0 | C | 9.1 | -55 | 210 | -4.6 | -1.5 | -7.7 | 0 | C |
| 15 | 456 | 7.1 | 0 | C | 9.6 | -25 | 237 | -4.7 | -6.4 | -5.4 | 0 | C |
| 16 | 455 | 6.7 | 0 | C | 9.6 | -8 | 248 | -3.5 | -8.2 | -3.3 | 0 | C |
| 17 | 459 | 7.0 | 0 | C | 9.6 | 2 | 245 | -4.0 | -8.5 | -2.1 | 1 | C |
| 18 | 466 | 20.5 | 0 | C | | | | | | | | |
| 19 | 466 | 20.5 | 0 | C | 9.6 | 0 | 245 | -3.8 | -7.6 | -3.1 | 3 | J |
| 20 | 532 | 11.4 | 0 | C | 9.2 | -17 | 254 | -2.4 | -6.5 | -5.9 | 1 | J |
| 21 | 545 | 11.1 | 0 | C | 11.3 | -11 | 259 | -2.1 | -8.6 | -6.7 | 2 | J |
| 22 | 488 | 9.0 | 0 | C | 11.6 | -42 | 245 | -3.6 | -3.2 | -10.3 | 2 | C |
| 23 | 449 | 8.2 | 0 | C | 11.0 | -66 | 230 | -2.9 | 1.8 | -10.5 | 1 | C |
| 24 | 451 | 8.7 | 0 | C | 10.0 | -65 | 234 | -2.5 | 1.4 | -9.6 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 435 | 8.4 | 0 | C | 8.9 | -65 | 242 | -1.8 | 0.9 | -8.6 | 1 | C |
| 2 | 467 | 7.8 | 0 | C | 8.5 | -74 | 256 | -0.6 | 1.6 | -8.2 | 1 | C |
| 3 | 428 | 7.5 | 0 | C | 7.1 | -80 | 241 | -0.5 | 1.6 | -5.6 | 4 | C |
| 4 | 428 | 7.5 | 0 | C | 7.4 | -50 | 285 | 1.2 | -2.1 | -6.8 | 1 | C |
| 5 | 392 | 6.7 | 0 | C | 7.9 | -38 | 278 | 0.9 | -4.2 | -6.6 | 1 | C |
| 6 | 437 | 8.3 | 0 | C | 7.5 | -32 | 290 | 2.0 | -4.3 | -4.9 | 3 | C |
| 7 | 447 | 8.9 | 0 | C | 5.5 | -31 | 279 | 0.7 | -3.6 | -3.5 | 2 | C |
| 8 | 472 | 8.1 | 0 | C | 6.5 | -41 | 312 | 3.1 | -2.7 | -4.5 | 2 | C |
| 9 | 481 | 9.3 | 0 | C | 6.5 | -3 | 302 | 2.8 | -4.5 | -0.9 | 3 | C |
| 10 | 469 | 9.6 | 33 | J | 6.3 | 3 | 297 | 2.1 | -4.1 | -0.2 | 4 | J |
| 11 | 478 | 6.5 | 12 | L | 6.6 | -13 | 324 | 4.9 | -3.4 | -1.7 | 2 | J |
| 12 | 525 | 16.9 | 0 | C | 7.5 | -9 | 337 | 6.8 | -2.7 | -1.4 | 1 | C |
| 13 | 524 | 15.5 | 0 | C | 8.4 | -12 | 348 | 8.0 | -1.4 | -1.8 | 1 | C |
| 14 | 523 | 15.0 | 0 | C | 8.5 | -8 | 352 | 8.3 | -0.9 | -1.4 | 0 | C |
| 15 | 514 | 16.1 | 0 | C | 8.6 | -14 | 2 | 8.2 | 0.7 | -2.0 | 1 | C |
| 16 | 503 | 11.4 | 0 | C | 8.9 | -13 | 353 | 8.5 | -0.6 | -2.2 | 1 | C |
| 17 | 494 | 18.9 | 0 | C | 12.0 | -27 | 334 | 8.7 | -2.6 | -5.8 | 4 | C |
| 18 | 474 | 22.3 | 37 | J | 15.8 | -10 | 31 | 12.9 | 8.2 | 0.1 | 4 | J |
| 19 | 466 | 18.3 | 36 | J | 15.9 | -4 | 21 | 13.9 | 5.3 | 1.1 | 6 | J |
| 20 | 471 | 15.7 | 44 | J | 14.0 | -2 | 14 | 12.2 | 2.9 | 0.9 | 6 | J |
| 21 | 455 | 14.7 | 24 | J | 11.8 | -6 | 343 | 10.6 | -2.4 | -2.5 | 4 | J |
| 22 | 507 | 7.3 | 167 | J | 10.5 | -54 | 40 | 4.2 | 6.7 | -5.0 | 5 | J |
| 23 | 505 | 15.0 | 0 | C | 4.9 | 2 | 19 | 3.7 | 1.1 | 0.8 | 3 | C |
| 24 | 494 | 13.6 | 0 | C | 8.0 | 14 | 253 | -1.3 | -4.4 | -1.2 | 6 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 481 | 13.4 | 0 | C | 10.3 | 29 | 279 | 1.0 | -7.0 | 0.0 | 7 | C |
| 2 | 450 | 14.2 | 0 | C | 9.7 | 29 | 308 | 4.2 | -6.5 | 1.0 | 4 | C |
| 3 | 455 | 15.2 | 0 | C | 8.0 | -25 | 344 | 3.5 | -0.2 | -1.9 | 6 | C |
| 4 | 422 | 11.6 | 0 | C | 10.8 | -14 | 324 | 7.2 | -4.1 | -4.1 | 5 | C |
| 5 | 419 | 11.5 | 0 | C | 10.3 | -22 | 334 | 8.0 | -2.5 | -4.7 | 3 | C |
| 6 | 394 | 8.3 | 0 | C | 10.4 | -40 | 307 | 4.8 | -4.3 | -8.0 | 1 | C |
| 7 | 419 | 10.5 | 0 | C | 10.9 | -39 | 296 | 3.6 | -5.7 | -8.1 | 2 | C |
| 8 | 454 | 14.4 | 0 | C | 10.5 | -31 | 258 | -1.5 | -5.9 | -5.2 | 6 | C |
| 9 | 415 | 9.7 | 0 | C | 9.5 | -41 | 291 | 1.8 | -3.9 | -4.8 | 7 | C |
| 10 | | | | | | | | | | | | |
| 11 | 382 | 8.5 | 0 | C | 9.5 | -47 | 328 | 5.4 | -2.7 | -7.3 | 1 | C |
| 12 | 380 | 8.4 | 0 | C | 10.2 | -46 | 333 | 6.2 | -2.4 | -7.6 | 1 | C |
| 13 | 422 | 19.0 | 47 | J | 8.4 | -35 | 296 | 2.6 | -4.8 | -4.8 | 4 | J |
| 14 | 423 | 18.5 | 34 | J | 8.6 | -36 | 276 | 0.7 | -5.9 | -5.9 | 1 | J |
| 15 | 460 | 17.9 | 0 | C | 9.7 | -47 | 293 | 2.5 | -4.4 | -7.7 | 2 | C |
| 16 | 445 | 16.0 | 0 | C | 10.1 | -53 | 303 | 3.2 | -3.0 | -8.8 | 2 | C |
| 17 | 454 | 16.3 | 0 | C | 10.5 | -60 | 292 | 1.7 | -1.8 | -8.5 | 5 | C |
| 18 | 451 | 16.4 | 0 | C | 10.4 | -68 | 44 | 2.7 | 5.6 | -8.0 | 2 | C |
| 19 | 403 | 17.3 | 24 | J | 9.9 | -68 | 25 | 3.1 | 4.6 | -7.2 | 4 | J |
| 20 | 401 | 12.9 | 22 | J | 10.6 | -6 | 277 | 1.2 | -8.5 | -5.1 | 3 | J |
| 21 | 407 | 12.9 | 18 | J | 11.1 | -8 | 274 | 0.8 | -8.9 | -6.2 | 2 | C |
| 22 | 402 | 8.1 | 19 | J | 10.6 | -16 | 276 | 1.0 | -7.4 | -7.4 | 1 | J |
| 23 | 410 | 12.4 | 0 | C | 10.4 | -81 | 282 | 0.2 | 2.3 | -6.1 | 8 | C |
| 24 | | | | | 9.9 | -66 | 87 | 0.2 | 7.4 | -5.4 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 349 | 8.6 | 0 | C | 10.7 | -71 | 92 | -0.1 | 8.0 | -7.2 | 1 | C |
| 2 | | | | | | | | | | | | |
| 3 | 374 | 9.1 | 0 | C | 8.1 | -63 | 258 | -0.7 | -0.1 | -7.1 | 4 | C |
| 4 | 349 | 7.7 | 0 | C | 8.6 | -13 | 262 | -1.2 | -6.8 | -4.9 | 1 | C |
| 5 | 358 | 8.7 | 0 | C | 7.9 | -26 | 276 | 0.7 | -5.2 | -5.2 | 2 | C |
| 6 | 343 | 6.4 | 0 | C | 8.3 | -17 | 272 | 0.3 | -6.8 | -4.5 | 1 | C |
| 7 | 332 | 6.5 | 0 | C | 8.4 | -28 | 270 | 0.0 | -6.4 | -5.5 | 1 | C |
| 8 | 330 | 6.2 | 0 | C | 8.2 | -16 | 276 | 0.8 | -7.3 | -3.6 | 1 | C |
| 9 | 320 | 6.2 | 0 | C | 8.0 | -15 | 280 | 1.3 | -7.2 | -3.1 | 0 | C |
| 10 | 317 | 6.2 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 369 | 16.1 | 0 | C | 4.6 | -53 | 59 | 1.4 | 2.6 | -3.2 | 1 | C |
| 13 | 369 | 16.1 | 0 | C | 4.6 | -57 | 98 | -0.3 | 2.6 | -3.0 | 2 | C |
| 14 | 371 | 16.1 | 0 | C | 4.9 | -24 | 123 | -2.3 | 3.8 | -1.3 | 2 | C |
| 15 | 374 | 16.1 | 0 | C | 4.2 | -33 | 117 | -0.9 | 1.9 | -0.9 | 3 | C |
| 16 | 380 | 21.3 | 0 | C | 4.6 | -47 | 138 | -2.2 | 2.6 | -2.5 | 2 | C |
| 17 | | | | | | | | | | | | |
| 18 | 383 | 19.6 | 0 | C | 6.0 | -61 | 308 | 0.8 | -0.2 | -2.5 | 5 | C |
| 19 | 366 | 17.9 | 0 | C | 6.6 | -39 | 357 | 4.1 | 1.1 | -3.2 | 4 | C |
| 20 | 356 | 15.1 | 0 | C | 8.1 | -43 | 356 | 5.1 | 1.7 | -4.5 | 4 | C |
| 21 | 350 | 13.8 | 0 | C | 7.5 | -22 | 313 | 4.4 | -3.0 | -4.5 | 2 | C |
| 22 | 363 | 10.9 | 31 | J | 7.6 | -48 | 329 | 4.1 | 0.4 | -5.8 | 3 | J |
| 23 | 367 | 12.1 | 26 | J | 8.3 | -16 | 306 | 4.1 | -3.9 | -4.5 | 4 | J |
| 24 | 352 | 11.9 | 46 | J | 8.3 | 7 | 308 | 4.9 | -6.0 | -2.3 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 359 | 14.7 | 0 | C | 8.7 | 12 | 274 | 0.7 | -8.3 | -2.6 | 0 | C |
| 2 | 366 | 13.1 | 22 | J | 8.5 | 14 | 291 | 2.6 | -7.0 | -1.6 | 4 | J |
| 3 | 363 | 13.7 | 30 | J | 8.6 | -9 | 294 | 3.2 | -6.0 | -4.2 | 3 | J |
| 4 | 360 | 14.8 | 33 | J | 7.2 | -8 | 277 | 0.9 | -6.1 | -3.6 | 3 | J |
| 5 | 360 | 15.3 | 34 | J | 7.9 | 16 | 284 | 1.8 | -7.5 | -0.4 | 2 | J |
| 6 | 348 | 17.9 | 0 | C | 8.2 | -6 | 323 | 5.9 | -4.1 | -2.0 | 3 | C |
| 7 | 345 | 19.1 | 0 | C | 8.1 | -22 | 335 | 6.5 | -2.3 | -3.5 | 2 | C |
| 8 | 338 | 15.8 | 19 | J | 9.0 | -26 | 341 | 7.2 | -1.8 | -4.1 | 3 | J |
| 9 | 346 | 16.0 | 22 | J | 7.9 | -35 | 9 | 4.4 | 1.1 | -3.0 | 6 | J |
| 10 | 363 | 23.2 | 61 | J | 7.9 | -11 | 294 | 2.0 | -4.2 | -1.5 | 6 | J |
| 11 | 350 | 21.5 | 63 | J | 8.3 | -37 | 327 | 4.7 | -2.6 | -4.5 | 4 | J |
| 12 | 337 | 14.8 | 17 | J | 8.5 | -49 | 46 | 3.8 | 4.7 | -5.8 | 1 | J |
| 13 | 338 | 15.4 | 15 | J | 8.5 | -47 | 31 | 4.7 | 3.6 | -5.5 | 3 | J |
| 14 | 327 | 18.2 | 0 | C | 8.3 | -28 | 44 | 5.1 | 5.6 | -3.0 | 1 | C |
| 15 | 329 | 17.5 | 0 | C | 7.9 | -24 | 48 | 4.6 | 5.6 | -2.0 | 2 | C |
| 16 | 331 | 16.5 | 0 | C | 9.3 | -30 | 61 | 3.5 | 7.3 | -2.6 | 4 | C |
| 17 | 346 | 19.4 | 22 | J | 8.4 | -42 | 52 | 3.4 | 5.7 | -3.5 | 4 | J |
| 18 | 354 | 22.2 | 37 | J | 9.3 | -58 | 87 | 0.2 | 6.5 | -5.1 | 4 | J |
| 19 | 341 | 20.0 | 29 | J | 10.3 | -66 | 12 | 3.4 | 3.7 | -6.9 | 6 | J |
| 20 | 343 | 19.5 | 0 | C | 10.1 | -64 | 315 | 2.5 | 0.8 | -7.5 | 6 | C |
| 21 | 356 | 18.0 | 0 | C | 10.3 | 40 | 248 | -2.7 | -9.0 | 2.3 | 3 | C |
| 22 | 339 | 16.4 | 55 | J | 7.5 | 24 | 47 | 3.1 | 1.9 | 3.3 | 6 | J |
| 23 | 352 | 16.2 | 59 | J | 8.2 | -22 | 279 | 0.6 | -2.6 | -3.4 | 7 | J |
| 24 | 356 | 13.8 | 57 | J | 9.0 | -10 | 275 | 0.7 | -6.2 | -5.3 | 4 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 362 | 11.6 | 50 | J | 8.7 | -5 | 276 | 0.8 | -6.5 | -4.4 | 4 | J |
| 352 | 11.0 | 0 | C | 9.8 | -32 | 288 | 2.5 | -4.6 | -8.3 | 1 | C |
| 353 | 15.4 | 0 | C | 9.0 | 6 | 280 | 1.3 | -7.6 | -2.7 | 4 | C |
| 349 | 13.8 | 0 | C | 8.8 | 7 | 287 | 2.5 | -7.8 | -2.2 | 2 | C |
| 349 | 14.7 | 0 | C | 8.6 | -2 | 286 | 2.3 | -7.5 | -2.9 | 2 | C |
| 353 | 12.1 | 0 | C | 8.8 | -7 | 293 | 3.4 | -7.4 | -3.2 | 1 | C |
| 386 | 10.4 | 58 | J | 10.7 | -14 | 300 | 5.1 | -8.0 | -4.5 | 2 | J |
| 381 | 11.3 | 54 | J | 11.1 | -19 | 299 | 4.5 | -7.5 | -4.7 | 5 | J |
| 389 | 11.4 | 51 | J | 10.9 | -9 | 296 | 4.5 | -8.9 | -3.0 | 3 | J |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 366 | 17.1 | 0 | C | 10.0 | -6 | 302 | 5.2 | -8.1 | -2.0 | 2 | C |
| 363 | 24.4 | 0 | C | 7.4 | -18 | 296 | 3.0 | -6.0 | -3.0 | 0 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 355 | 18.9 | 0 | C | 9.3 | 76 | 270 | -0.0 | -3.7 | 8.4 | 1 | C |
| 370 | 19.9 | 15 | J | 8.9 | 56 | 261 | -0.7 | -5.8 | 5.7 | 3 | J |
| 371 | 22.3 | 16 | J | 8.4 | 41 | 289 | 1.9 | -6.6 | 3.5 | 3 | J |
| 364 | 19.1 | 0 | C | 8.7 | 23 | 300 | 4.0 | -7.5 | 1.1 | 1 | C |
| 370 | 15.5 | 13 | J | 9.5 | 8 | 298 | 4.4 | -8.2 | -1.7 | 1 | J |
| 365 | 11.3 | 12 | J | 9.8 | 12 | 301 | 4.8 | -8.2 | -1.3 | 2 | J |
| 370 | 16.0 | 15 | J | 9.5 | 10 | 296 | 4.0 | -8.1 | -2.1 | 2 | J |
| 364 | 16.3 | 33 | J | 8.1 | 5 | 303 | 4.2 | -6.0 | -2.4 | 2 | J |
| 361 | 19.3 | 41 | J | 7.5 | 0 | 296 | 2.9 | -5.2 | -3.0 | 3 | J |
| 360 | 22.1 | 63 | J | 6.6 | 13 | 311 | 3.6 | -4.2 | -1.0 | 3 | J |
| 354 | 22.9 | 66 | J | 7.4 | 17 | 313 | 4.5 | -5.2 | -0.7 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 346 | 18.7 | 48 | J | 10.1 | 12 | 306 | 5.3 | -7.4 | -2.0 | 4 | J |
| 2 | 339 | 18.7 | 22 | J |  |  |  |  |  |  |  |  |
| 3 | 344 | 16.9 | 21 | J | 12.3 | 17 | 298 | 5.4 | -10.7 | -1.3 | 2 | J |
| 4 | 335 | 19.6 | 19 | J | 11.8 | 23 | 332 | 9.1 | -6.2 | 2.1 | 4 | J |
| 5 | 333 | 19.4 | 20 | J | 12.3 | 23 | 318 | 8.1 | -8.4 | 1.8 | 3 | J |
| 6 |  |  |  |  | 12.6 | 32 | 319 | 7.8 | -8.4 | 4.2 | 3 | J |
| 7 | 339 | 18.1 | 12 | J | 11.4 | 33 | 350 | 8.9 | -3.0 | 5.3 | 3 | C |
| 8 | 370 | 25.0 | 39 | J | 10.4 | 22 | 30 | 8.2 | 3.9 | 4.6 | 2 | J |
| 9 | 378 | 31.2 | 66 | J | 8.4 | 20 | 339 | 5.4 | -2.4 | 1.8 | 6 | J |
| 10 | 406 | 35.3 | 87 | J | 10.2 | 22 | 157 | -3.4 | 1.2 | 1.7 | 10 | J |
| 11 | 413 | 51.4 | 0 | C | 12.3 | -67 | 110 | -1.4 | 5.0 | -9.2 | 6 | C |
| 12 | 419 | 48.2 | 0 | C | 15.2 | -69 | 355 | 5.3 | 1.3 | -14.0 | 0 | C |
| 13 | 405 | 35.4 | 112 | J | 14.5 | -31 | 42 | 6.7 | 6.7 | -4.5 | 10 | J |
| 14 | 407 | 34.0 | 104 | J | 13.2 | -85 | 316 | 0.7 | 1.4 | -12.1 | 4 | C |
| 15 | 418 | 40.0 | 0 | C | 12.4 | -42 | 61 | 3.5 | 7.6 | -5.1 | 7 | C |
| 16 | 403 | 15.7 | 0 | C | 15.0 | -67 | 270 | -0.0 | -2.2 | -14.5 | 3 | C |
| 17 | 376 | 13.9 | 0 | C | 13.6 | 1 | 222 | -8.3 | -7.3 | -2.1 | 7 | C |
| 18 | 400 | 6.5 | 347 | J | 12.2 | -30 | 255 | -2.5 | -6.9 | -8.6 | 4 | J |
| 19 | 415 | 6.9 | 171 | J |  |  |  |  |  |  |  |  |
| 20 | 429 | 9.7 | 213 | J | 11.1 | -4 | 251 | -3.4 | -8.6 | -5.0 | 3 | J |
| 21 | 393 | 15.6 | 0 | C | 11.5 | -3 | 294 | 4.5 | -8.7 | -5.3 | 2 | C |
| 22 | 389 | 9.9 | 212 | J | 10.7 | 13 | 311 | 6.6 | -7.7 | -1.7 | 3 | J |
| 23 | 403 | 7.4 | 128 | J | 11.9 | -12 | 270 | -0.0 | -8.0 | -7.3 | 5 | J |
| 24 | 386 | 7.4 | 139 | J | 12.5 | -22 | 275 | 0.9 | -7.2 | -9.6 | 3 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 394 | 7.4 | 138 | J | 11.2 | -19 | 276 | 1.0 | -6.9 | -7.9 | 4 | J |
| 390 | 8.3 | 138 | J | 9.9 | -33 | 305 | 4.0 | -2.9 | -6.7 | 5 | J |
| 431 | 8.6 | 124 | J | 10.7 | -34 | 314 | 5.7 | -2.9 | -7.6 | 4 | J |
| 445 | 6.8 | 108 | J | 10.7 | -30 | 298 | 3.8 | -4.7 | -7.2 | 5 | C |
| 461 | 6.9 | 111 | J | 9.8 | -28 | 308 | 4.7 | -4.3 | -5.9 | 4 | J |
| 474 | 9.8 | 0 | C | 9.1 | -29 | 331 | 6.5 | -2.2 | -5.0 | 3 | C |
| 524 | 13.9 | 115 | J | 1.7 | 55 | 338 | 0.7 | -0.6 | 1.0 | 1 | J |
| 516 | 11.3 | 120 | J | 3.2 | 44 | 281 | 0.3 | -1.6 | 1.0 | 3 | J |
| 491 | 6.1 | 114 | J | 6.0 | 6 | 317 | 3.9 | -3.7 | -0.0 | 3 | J |
| 517 | 7.5 | 172 | J | 4.5 | 7 | 353 | 4.1 | -0.6 | 0.4 | 1 | J |
| 517 | 9.9 | 0 | C | 6.0 | -14 | 6 | 5.6 | 0.8 | -1.3 | 1 | C |
| 536 | 12.2 | 0 | C | 6.2 | -23 | 359 | 5.7 | 0.2 | -2.4 | 0 | C |
| 538 | 13.0 | 0 | C | 6.3 | -31 | 359 | 5.3 | 0.4 | -3.2 | 1 | C |
| 541 | 21.6 | 131 | J | 6.5 | -38 | 13 | 4.4 | 1.6 | -3.3 | 3 | J |
| 595 | 24.6 | 510 | J | 8.8 | -35 | 60 | 3.0 | 6.0 | -3.0 | 5 | J |
| 666 | 35.7 | 0 | C | 20.6 | 43 | 46 | 7.5 | 4.8 | 11.6 | 10 | C |
| 654 | 33.8 | 0 | C | 21.8 | 39 | 22 | 12.6 | 1.4 | 12.2 | 10 | C |
| 565 | 36.3 | 138 | J | 14.7 | 20 | 353 | 12.9 | -3.2 | 3.8 | 5 | J |
| 541 | 40.1 | 189 | J | 10.9 | 23 | 344 | 8.9 | -3.9 | 2.6 | 5 | J |
| 547 | 50.5 | 203 | J | 5.9 | -42 | 56 | 0.7 | 1.5 | -0.6 | 6 | J |
| 631 | 68.5 | 0 | C | 17.2 | -25 | 72 | 2.9 | 10.0 | 0.4 | 13 | C |
| 556 | 23.9 | 199 | J | 21.2 | -57 | 103 | -2.5 | 18.1 | -9.5 | 5 | J |
| 567 | 27.6 | 176 | J | 17.5 | -47 | 95 | -1.0 | 16.1 | -4.7 | 6 | J |
| 577 | 22.2 | 140 | J | 18.4 | -43 | 95 | -1.2 | 17.7 | -3.9 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 585 | 18.3 | 0 | C | 21.9 | 71 | 47 | 4.9 | -5.9 | 20.5 | 1 | J |
| 2 | 576 | 14.9 | 0 | C | 21.8 | 72 | 56 | 3.8 | -5.0 | 20.8 | 2 | J |
| 3 | 555 | 12.9 | 0 | C | 21.7 | 80 | 288 | 1.2 | -12.7 | 17.5 | 2 | J |
| 4 | 519 | 8.5 | 0 | C | 22.5 | 78 | 267 | -0.2 | -13.0 | 18.1 | 3 | J |
| 5 | 520 | 3.7 | 0 | C | 36.8 | 80 | 236 | -3.6 | -17.6 | 32.0 | 2 | J |
| 6 | 528 | 2.7 | 0 | C | 24.5 | 67 | 267 | -0.5 | -15.8 | 18.6 | 2 | C |
| 7 | 513 | 2.7 | 0 | C | 24.8 | 63 | 264 | -1.2 | -16.4 | 18.6 | 1 | C |
| 8 | 503 | 2.5 | 0 | C | 25.1 | 58 | 251 | -4.3 | -16.4 | 18.5 | 1 | C |
| 9 | 494 | 2.8 | 0 | C | 25.3 | 48 | 265 | -1.5 | -19.4 | 15.7 | 4 | C |
| 10 | 501 | 3.1 | 0 | C | 24.8 | 32 | 272 | 0.8 | -22.4 | 10.2 | 2 | C |
| 11 | 507 | 6.7 | 0 | C | 23.9 | -11 | 274 | 1.8 | -22.6 | -7.5 | 1 | C |
| 12 | 486 | 11.0 | 0 | C | 22.5 | -3 | 283 | 4.8 | -20.6 | -3.9 | 6 | J |
| 13 | 444 | 12.4 | 0 | C | 22.7 | 11 | 273 | 1.2 | -22.5 | 0.8 | 3 | C |
| 14 | 433 | 19.3 | 0 | C | 19.7 | 29 | 276 | 1.5 | -14.7 | 5.0 | 12 | C |
| 15 | 458 | 17.0 | 0 | C | 21.3 | 17 | 279 | 3.0 | -20.3 | 1.5 | 5 | C |
| 16 | 440 | 8.7 | 0 | C | 20.0 | 27 | 280 | 3.0 | -18.8 | 3.9 | 4 | C |
| 17 | 432 | 4.9 | 0 | C | 20.2 | 17 | 283 | 4.3 | -19.4 | -0.2 | 3 | C |
| 18 | 449 | 5.1 | 0 | C | 20.3 | -2 | 288 | 6.2 | -17.8 | -7.4 | 1 | C |
| 19 | 492 | 6.3 | 0 | C | 18.7 | -31 | 326 | 12.8 | -4.0 | -12.0 | 4 | C |
| 20 |  |  |  |  | 17.6 | -43 | 12 | 12.1 | 7.4 | -9.2 | 8 | J |
| 21 | 453 | 7.7 | 0 | C | 19.4 | -32 | 27 | 13.4 | 10.5 | -5.0 | 8 | C |
| 22 | 453 | 7.7 | 0 | C | 20.2 | -32 | 21 | 15.7 | 10.7 | -6.2 | 3 | C |
| 23 | 451 | 8.3 | 0 | C | 18.7 | -23 | 298 | 7.7 | -8.7 | -13.3 | 6 | C |
| 24 | 447 | 6.8 | 0 | C | 18.6 | -8 | 271 | 0.4 | -14.4 | -11.6 | 2 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 415 | 5.4 | 0 | C | 18.7 | -7 | 263 | -2.2 | -14.6 | -11.2 | 2 | C |
| 404 | 4.2 | 0 | C | 18.3 | -11 | 258 | -3.7 | -13.6 | -11.3 | 3 | C |
| 391 | 4.0 | 0 | C | 17.7 | -18 | 261 | -2.5 | -12.3 | -12.2 | 2 | C |
| 411 | 3.4 | 0 | C | 17.4 | -25 | 270 | -0.0 | -11.3 | -13.1 | 2 | C |
| 410 | 3.3 | 0 | C | 17.2 | -35 | 270 | 0.1 | -9.7 | -14.0 | 2 | C |
| 438 | 3.3 | 0 | C | 16.3 | -40 | 283 | 2.7 | -8.5 | -13.5 | 1 | C |
| 404 | 3.0 | 0 | C | 15.8 | -41 | 289 | 3.9 | -8.3 | -12.7 | 2 | C |
| 418 | 2.6 | 0 | C | 15.5 | -50 | 296 | 4.3 | -6.3 | -13.3 | 1 | C |
| 411 | 3.0 | 0 | C | 14.8 | -51 | 300 | 4.3 | -5.6 | -11.8 | 5 | C |
| 412 | 4.2 | 0 | C | 14.3 | -41 | 288 | 3.2 | -8.3 | -10.1 | 4 | C |
| 395 | 4.5 | 0 | C | 14.1 | -57 | 312 | 5.0 | -3.9 | -12.0 | 2 | C |
| 393 | 5.4 | 0 | C | 13.3 | -51 | 302 | 4.3 | -5.3 | -10.5 | 3 | C |
| 377 | 5.6 | 0 | C | 13.0 | -58 | 297 | 3.0 | -4.3 | -11.4 | 3 | C |
| 383 | 5.7 | 0 | C | 12.8 | -58 | 319 | 5.0 | -2.3 | -11.2 | 3 | C |
| 396 | 5.2 | 0 | C | 12.3 | -58 | 303 | 3.5 | -2.9 | -11.2 | 1 | C |
| 386 | 5.6 | 0 | C | 11.9 | -54 | 303 | 3.8 | -3.1 | -10.7 | 1 | C |
| 387 | 6.9 | 0 | C | 11.4 | -55 | 298 | 2.9 | -2.5 | -10.2 | 3 | C |
| 401 | 8.8 | 0 | C | 11.4 | -60 | 321 | 4.3 | 0.2 | -10.2 | 2 | C |
| 377 | 7.9 | 0 | C | 11.1 | -58 | 309 | 3.5 | -0.3 | -10.1 | 2 | C |
| 381 | 9.3 | 0 | C | 10.8 | -63 | 305 | 2.6 | 0.8 | -9.8 | 3 | C |
| 379 | 10.2 | 0 | C | 10.2 | -68 | 311 | 2.4 | 1.9 | -9.0 | 4 | C |
| 375 | 10.7 | 0 | C | 9.9 | -61 | 323 | 3.5 | 1.7 | -8.1 | 3 | C |
| 356 | 11.1 | 0 | C | 10.0 | -37 | 328 | 6.5 | -0.4 | -7.0 | 3 | C |
| 353 | 11.6 | 0 | C | 10.2 | -21 | 325 | 7.5 | -2.6 | -5.7 | 2 | C |

FEB. 14, 1982

45

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 384 | 11.7 | 0 | C | 9.0 | -48 | 78 | 0.8 | 5.6 | -1.8 | 6 | C |
| 2 | 391 | 10.6 | 0 | C | 8.6 | -69 | 88 | 0.1 | 5.7 | -4.8 | 4 | C |
| 3 | 394 | 9.3 | 0 | C | 8.7 | -30 | 86 | 0.5 | 8.2 | -0.4 | 2 | C |
| 4 | 390 | 10.0 | 0 | C | 9.0 | -44 | 78 | 1.3 | 7.8 | -2.9 | 3 | C |
| 5 | 400 | 13.6 | 0 | C | 11.5 | -39 | 296 | 3.1 | -3.9 | -7.7 | 7 | C |
| 6 | 396 | 13.6 | 0 | C | 11.7 | -25 | 285 | 2.7 | -8.0 | -7.7 | 2 | C |
| 7 | 399 | 15.8 | 0 | C | 10.5 | -33 | 295 | 3.4 | -5.8 | -6.9 | 3 | C |
| 8 | 404 | 16.4 | 0 | C | 10.8 | -75 | 91 | -0.1 | 4.6 | -8.9 | 3 | C |
| 9 | 396 | 15.6 | 0 | C | 10.3 | -73 | 63 | 1.2 | 3.9 | -8.2 | 4 | C |
| 10 | 389 | 14.0 | 0 | C | 9.2 | -50 | 61 | 2.4 | 5.2 | -5.1 | 4 | C |
| 11 | 392 | 13.3 | 0 | C | 9.1 | -58 | 87 | 0.2 | 5.0 | -6.0 | 4 | C |
| 12 | 384 | 13.2 | 0 | C | 9.4 | -69 | 352 | 2.6 | 0.6 | -6.7 | 5 | C |
| 13 | 362 | 13.4 | 0 | C | 10.1 | -51 | 344 | 4.9 | -0.4 | -6.5 | 5 | C |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 342 | 12.3 | 0 | C | 10.1 | -20 | 28 | 6.6 | 4.0 | -1.9 | 6 | C |
| 16 | 380 | 21.8 | 0 | C | 16.3 | 25 | 46 | 9.4 | 7.7 | 8.8 | 5 | C |
| 17 | 382 | 19.2 | 0 | C | 13.3 | -34 | 65 | 4.0 | 10.1 | -3.4 | 5 | C |
| 18 | 366 | 15.6 | 0 | C | 10.4 | -48 | 341 | 5.2 | 0.6 | -6.4 | 6 | C |
| 19 | 373 | 10.3 | 0 | C | 11.5 | -62 | 358 | 4.9 | 3.7 | -8.6 | 4 | C |
| 20 | 356 | 8.5 | 0 | C | 11.5 | -43 | 320 | 6.2 | -1.3 | -9.2 | 2 | C |
| 21 | 374 | 10.4 | 0 | C | 11.6 | -26 | 304 | 5.7 | -5.0 | -8.5 | 2 | C |
| 22 | 376 | 9.6 | 0 | C | 12.9 | -22 | 311 | 7.8 | -5.2 | -8.5 | 2 | C |
| 23 | 394 | 10.5 | 0 | C | 11.5 | -21 | 313 | 6.8 | -4.2 | -7.0 | 4 | C |
| 24 | 410 | 13.1 | 0 | C | 10.9 | 0 | 314 | 7.5 | -6.5 | -4.0 | 2 | C |

FEB. 15, 1982

46

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 413 | 13.6 | 0 | C | 10.3 | 26 | 310 | 5.9 | -8.3 | 0.2 | 1 | C |
| 418 | 15.9 | 0 | C | 9.5 | 13 | 304 | 5.0 | -7.4 | -1.8 | 2 | C |
| 427 | 13.2 | 0 | C | 11.5 | 60 | 272 | 0.2 | -9.3 | 5.9 | 3 | C |
| 417 | 12.5 | 0 | C | 10.9 | 33 | 147 | -7.1 | 1.9 | 6.9 | 4 | C |
| 430 | 13.7 | 0 | C | 9.2 | -22 | 146 | -6.3 | 5.1 | -1.4 | 4 | C |
| 443 | 13.1 | 0 | C | 6.3 | -63 | 58 | 1.1 | 3.0 | -3.4 | 4 | C |
| 431 | 10.8 | 0 | C | 7.5 | -28 | 124 | -3.5 | 5.8 | -1.9 | 2 | C |
| 425 | 9.5 | 0 | C | 7.4 | -33 | 133 | -4.1 | 5.1 | -2.9 | 2 | C |
| 422 | 8.2 | 0 | C | 8.8 | -26 | 144 | -6.3 | 5.1 | -2.9 | 1 | C |
| 430 | 8.1 | 0 | C | 9.0 | -50 | 124 | -3.1 | 5.6 | -5.8 | 2 | C |
| 442 | 7.3 | 0 | C | 8.9 | -36 | 126 | -4.2 | 6.4 | -4.4 | 1 | C |
| 460 | 5.3 | 0 | C | 9.8 | -58 | 142 | -3.9 | 4.2 | -7.6 | 2 | C |
| 450 | 5.5 | 0 | C | 9.8 | -53 | 144 | -4.7 | 4.6 | -7.1 | 1 | C |
| 438 | 6.4 | 0 | C | 9.7 | -23 | 146 | -7.4 | 5.6 | -2.8 | 0 | C |
| 444 | 6.6 | 0 | C | 9.4 | -28 | 141 | -5.7 | 5.3 | -2.7 | 4 | C |
| 439 | 5.7 | 0 | C | 9.7 | -9 | 141 | -7.4 | 6.2 | 0.2 | 0 | C |
| 446 | 5.5 | 0 | C | 9.6 | 5 | 143 | -7.5 | 5.0 | 2.6 | 2 | C |
| 462 | 5.5 | 0 | C | 9.6 | 9 | 144 | -7.6 | 4.4 | 3.4 | 1 | C |
| 470 | 5.9 | 0 | C | 9.0 | 15 | 149 | -7.5 | 3.1 | 3.9 | 1 | C |
| 459 | 6.4 | 0 | C | 9.2 | 14 | 146 | -7.4 | 3.3 | 4.2 | 1 | C |
| 449 | 6.7 | 0 | C | 8.9 | 20 | 153 | -7.2 | 1.8 | 4.4 | 2 | C |
| 443 | 7.0 | 0 | C | 9.1 | 8 | 152 | -7.9 | 2.9 | 3.2 | 1 | C |
| 436 | 7.2 | 0 | C | 9.5 | -2 | 153 | -8.4 | 3.8 | 1.9 | 1 | C |
| 426 | 7.3 | 0 | C | 9.3 | -7 | 156 | -8.4 | 3.8 | 1.1 | 1 | C |

### FEB. 16, 1982

47

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 441 | 7.9 | 0 | C | 8.3 | -28 | 132 | -4.6 | 6.1 | -0.5 | 3 | C |
| 2 | 443 | 7.7 | 0 | C | 8.2 | -31 | 140 | -4.9 | 5.4 | -1.3 | 3 | C |
| 3 | 430 | 8.4 | 0 | C | 8.2 | -18 | 155 | -7.0 | 4.0 | -0.7 | 0 | C |
| 4 | 417 | 10.7 | 0 | C | 6.9 | -10 | 170 | -6.3 | 1.5 | -0.6 | 2 | C |
| 5 | 405 | 10.0 | 0 | C | 6.8 | -11 | 163 | -6.0 | 2.1 | -0.5 | 2 | C |
| 6 | 408 | 9.0 | 0 | C | 7.0 | -5 | 159 | -5.7 | 2.3 | 0.1 | 3 | C |
| 7 | 418 | 8.5 | 0 | C | 6.8 | 40 | 183 | -5.1 | -1.4 | 4.0 | 1 | C |
| 8 | 414 | 8.7 | 0 | C | 6.6 | 52 | 194 | -3.8 | -2.1 | 4.8 | 1 | C |
| 9 | 412 | 8.8 | 0 | C | 6.9 | 41 | 191 | -5.1 | -1.8 | 4.2 | 1 | C |
| 10 | 403 | 10.0 | 0 | C | 6.7 | 4 | 171 | -6.0 | 0.9 | 0.6 | 2 | C |
| 11 | 399 | 9.6 | 0 | C | 6.1 | 15 | 177 | -4.8 | 0.1 | 1.3 | 3 | C |
| 12 | 399 | 10.0 | 0 | C | 5.8 | -1 | 188 | -5.5 | -0.8 | -0.2 | 1 | C |
| 13 | 399 | 9.3 | 0 | C | 5.6 | 1 | 166 | -4.6 | 1.2 | 0.3 | 2 | C |
| 14 | 399 | 8.8 | 0 | C | 5.6 | -15 | 176 | -5.1 | 0.6 | -1.2 | 1 | C |
| 15 | 406 | 8.7 | 0 | C | 5.7 | -15 | 163 | -5.1 | 1.8 | -1.0 | 1 | C |
| 16 | 402 | 9.2 | 0 | C | 5.3 | 17 | 147 | -4.2 | 2.1 | 2.2 | 1 | C |
| 17 | 396 | 9.8 | 0 | C | 5.1 | -8 | 144 | -3.9 | 2.9 | 0.3 | 1 | C |
| 18 | 388 | 9.5 | 0 | C | 5.4 | -22 | 129 | -3.1 | 4.3 | -0.4 | 1 | C |
| 19 | 390 | 8.2 | 0 | C | 6.2 | 1 | 139 | -4.2 | 3.3 | 1.6 | 3 | C |
| 20 | 393 | 9.6 | 0 | C | 5.4 | -7 | 156 | -4.8 | 2.2 | 0.4 | 1 | C |
| 21 | 388 | 10.6 | 0 | C | 5.5 | 22 | 157 | -4.5 | 0.7 | 2.6 | 2 | C |
| 22 | 388 | 8.7 | 0 | C | 6.1 | 46 | 174 | -4.1 | -1.9 | 3.9 | 1 | C |
| 23 | 391 | 8.5 | 0 | C | 6.2 | 38 | 173 | -4.9 | -1.5 | 3.6 | 1 | C |
| 24 | 387 | 9.2 | 0 | C | 6.3 | 40 | 178 | -4.8 | -1.9 | 3.5 | 0 | C |

### FEB. 17, 1982

48

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 383 | 10.0 | 0 | C | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 417 | 31.0 | 0 | C | | | | | | | | |
| 7 | 382 | 28.0 | 45 | L | 15.7 | -25 | 132 | -9.2 | 11.5 | -3.5 | 2 | C |
| 8 | 403 | 50.6 | 40 | L | 16.7 | -15 | 125 | -8.5 | 12.8 | -1.3 | 6 | C |
| 9 | 428 | 56.9 | 0 | C | 23.8 | 66 | 103 | -2.1 | 4.9 | 21.9 | 8 | C |
| 10 | 467 | 26.4 | 363 | L | 20.5 | -7 | 114 | -7.6 | 17.1 | 0.3 | 6 | C |
| 11 | 452 | 30.1 | 374 | L | 21.6 | -24 | 117 | -7.5 | 15.6 | -4.9 | 10 | C |
| 12 | 527 | 43.0 | 0 | C | 12.0 | -24 | 158 | -8.7 | 4.1 | -3.6 | 7 | C |
| 13 | 506 | 36.0 | 274 | L | 21.8 | 57 | 216 | -9.3 | -9.7 | 16.4 | 4 | J |
| 14 | 502 | 24.4 | 236 | J | 18.5 | 9 | 146 | -9.7 | 6.1 | 3.1 | 14 | J |
| 15 | 561 | 16.4 | 294 | J | 16.2 | -1 | 130 | -9.7 | 11.3 | 2.5 | 6 | J |
| 16 | 618 | 12.8 | 326 | J | 17.0 | -6 | 145 | -12.3 | 8.7 | 0.9 | 8 | J |
| 17 | 666 | 10.1 | 357 | J | 17.8 | -15 | 140 | -12.4 | 11.3 | -0.7 | 6 | J |
| 18 | 671 | 9.9 | 371 | J | 17.5 | -10 | 139 | -10.5 | 9.4 | 1.2 | 10 | J |
| 19 | 655 | 10.1 | 465 | J | 17.4 | 22 | 132 | -9.3 | 7.0 | 9.5 | 8 | J |
| 20 | 638 | 8.7 | 276 | J | 17.3 | -1 | 132 | -9.9 | 9.9 | 4.9 | 9 | J |
| 21 | 646 | 8.7 | 338 | J | 15.2 | -8 | 157 | -11.8 | 5.3 | 0.9 | 8 | J |
| 22 | 640 | 8.2 | 402 | J | 14.1 | 7 | 127 | -7.0 | 7.3 | 6.1 | 7 | J |
| 23 | 619 | 8.0 | 236 | J | 15.9 | 9 | 148 | -12.5 | 5.4 | 6.1 | 5 | J |
| 24 | 658 | 13.2 | 0 | C | 17.1 | 6 | 134 | -10.7 | 8.5 | 7.2 | 6 | C |

### FEB. 18, 1982

49

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 651 | 12.2 | 0 | C | 18.0 | 5 | 120 | -8.1 | 11.1 | 8.5 | 7 | C |
| 2 | 657 | 11.4 | 0 | C | 19.0 | -2 | 121 | -8.7 | 13.0 | 6.8 | 8 | C |
| 3 | 656 | 11.3 | 0 | C | 18.0 | 1 | 122 | -8.7 | 12.5 | 7.0 | 4 | C |
| 4 | 677 | 6.9 | 302 | J | 14.5 | 3 | 125 | -7.2 | 9.1 | 4.9 | 8 | J |
| 5 | 721 | 5.0 | 0 | C | 7.0 | -7 | 124 | -2.7 | 3.9 | 0.9 | 4 | C |
| 6 | 714 | 4.9 | 0 | C | 6.7 | -10 | 143 | -3.6 | 2.8 | 0.1 | 4 | C |
| 7 | 734 | 4.6 | 0 | C | 7.5 | 14 | 130 | -3.9 | 4.1 | 2.6 | 3 | C |
| 8 | 772 | 4.7 | 0 | C | 6.8 | -51 | 149 | -2.3 | 2.1 | -2.9 | 4 | C |
| 9 | 763 | 4.5 | 0 | C | 7.0 | -31 | 136 | -3.4 | 3.7 | -2.1 | 4 | C |
| 10 | 753 | 4.0 | 0 | C | 7.6 | 11 | 134 | -4.5 | 4.5 | 2.0 | 3 | C |
| 11 | 720 | 4.4 | 0 | C | 6.9 | 35 | 141 | -3.5 | 2.3 | 3.6 | 3 | C |
| 12 | 796 | 2.8 | 193 | J | 5.4 | 11 | 125 | -2.5 | 3.4 | 1.4 | 3 | J |
| 13 | 803 | 3.0 | 238 | J | 4.6 | -23 | 130 | -2.4 | 3.1 | -1.0 | 2 | J |
| 14 | 774 | 3.3 | 0 | C | 5.0 | -25 | 132 | -2.4 | 2.9 | -1.1 | 3 | C |
| 15 | 775 | 3.2 | 0 | C | 4.5 | -25 | 178 | -3.3 | 0.5 | -1.5 | 2 | C |
| 16 | 788 | 2.1 | 192 | J | 4.1 | 9 | 144 | -2.9 | 1.8 | 1.1 | 2 | J |
| 17 | 739 | 3.3 | 0 | C | | | | | | | | |
| 18 | 764 | 2.8 | 202 | J | 5.2 | 16 | 138 | -3.3 | 2.3 | 2.3 | 2 | J |
| 19 | 763 | 3.0 | 259 | J | 5.1 | -4 | 146 | -3.9 | 2.5 | 0.8 | 2 | J |
| 20 | 779 | 3.7 | 273 | J | 5.1 | -23 | 168 | -4.4 | 1.7 | -1.3 | 2 | J |
| 21 | 730 | 5.6 | 676 | J | 5.9 | -22 | 180 | -5.0 | 1.0 | -1.8 | 2 | J |
| 22 | 741 | 4.9 | 373 | J | 4.8 | 12 | 226 | -2.6 | -2.7 | -0.7 | 3 | J |
| 23 | 704 | 4.8 | 0 | C | 8.0 | -10 | 194 | -6.1 | -0.8 | -1.7 | 4 | C |
| 24 | 732 | 5.7 | 316 | J | 6.6 | -49 | 198 | -2.9 | 1.1 | -3.4 | 5 | J |

### FEB. 19, 1982

50

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 727 | 5.8 | 358 | J | 6.6 | -40 | 150 | -3.9 | 3.9 | -2.1 | 3 | J |
| 2 | 702 | 7.6 | 0 | C | 8.0 | -29 | 154 | -5.7 | 4.1 | -1.6 | 3 | C |
| 3 | 705 | 7.6 | 0 | C | 8.8 | -40 | 162 | -5.7 | 4.0 | -3.6 | 3 | C |
| 4 | 717 | 7.2 | 0 | C | 9.2 | -54 | 147 | -4.1 | 5.2 | -5.0 | 4 | J |
| 5 | 716 | 7.2 | 0 | C | 8.2 | 15 | 167 | -5.5 | 0.6 | 1.8 | 4 | C |
| 6 | 721 | 6.1 | 0 | C | 7.3 | 22 | 170 | -5.2 | 0.1 | 2.3 | 4 | C |
| 7 | 710 | 5.4 | 0 | C | 6.5 | -37 | 160 | -3.3 | 1.9 | -2.2 | 4 | C |
| 8 | 703 | 5.3 | 0 | C | 6.7 | -18 | 198 | -4.6 | -1.1 | -1.8 | 4 | C |
| 9 | 703 | 5.1 | 0 | C | 7.6 | -17 | 211 | -4.8 | -2.5 | -2.2 | 4 | C |
| 10 | 701 | 5.2 | 0 | C | 7.4 | 15 | 193 | -5.8 | -1.6 | 1.3 | 4 | C |
| 11 | 706 | 4.8 | 0 | C | 7.1 | 56 | 181 | -2.8 | -0.7 | 4.1 | 4 | C |
| 12 | 670 | 5.1 | 0 | C | 6.8 | 28 | 176 | -5.5 | -0.1 | 3.0 | 2 | C |
| 13 | 671 | 5.3 | 0 | C | 6.9 | 0 | 153 | -5.2 | 2.6 | 0.5 | 3 | C |
| 14 | 710 | 4.3 | 133 | J | 7.9 | -19 | 133 | -5.0 | 5.7 | -1.4 | 2 | J |
| 15 | 717 | 4.5 | 136 | J | 7.9 | -24 | 130 | -4.4 | 5.8 | -1.6 | 2 | C |
| 16 | 704 | 4.5 | 116 | J | 7.4 | -12 | 169 | -5.9 | 1.5 | -0.9 | 4 | J |
| 17 | 685 | 5.9 | 0 | C | 7.9 | -15 | 89 | 0.2 | 7.2 | 0.6 | 2 | C |
| 18 | 663 | 6.4 | 0 | C | 7.6 | -16 | 142 | -4.4 | 3.9 | -0.2 | 4 | C |
| 19 | 713 | 5.0 | 283 | J | 7.3 | -23 | 145 | -4.2 | 3.6 | -0.7 | 5 | J |
| 20 | 688 | 4.6 | 100 | J | 6.9 | -12 | 172 | -6.3 | 1.4 | -0.8 | 2 | J |
| 21 | 732 | 3.3 | 204 | J | 5.2 | 35 | 179 | -2.9 | -1.0 | 1.8 | 4 | J |
| 22 | 629 | 4.3 | 0 | C | 4.7 | 2 | 135 | -2.5 | 2.0 | 1.4 | 2 | C |
| 23 | 681 | 3.5 | 0 | C | 4.7 | -20 | 145 | -2.1 | 1.8 | -0.0 | 3 | C |
| 24 | 693 | 3.1 | 0 | C | 4.6 | -12 | 150 | -3.6 | 2.2 | 0.4 | 1 | C |

### FEB. 20, 1982

51

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 680 | 3.1 | 0 | C | 4.9 | 7 | 162 | -3.6 | 0.8 | 1.0 | 3 | C |
| 2 | 691 | 3.2 | 0 | C | 4.6 | 3 | 127 | -1.4 | 1.5 | 1.0 | 3 | C |
| 3 | 669 | 3.9 | 0 | C | 4.7 | 27 | 82 | 0.5 | 2.2 | 3.2 | 2 | C |
| 4 | 619 | 4.8 | 0 | C | 4.9 | -22 | 124 | -2.3 | 3.7 | -0.0 | 1 | C |
| 5 | 591 | 5.2 | 0 | C | 4.3 | -37 | 129 | -2.0 | 3.1 | -1.3 | 2 | J |
| 6 | 579 | 5.1 | 0 | C | 4.5 | -1 | 174 | -3.8 | 0.4 | 0.0 | 2 | C |
| 7 | 573 | 5.0 | 0 | C | 4.3 | 6 | 163 | -3.3 | 0.9 | 0.6 | 2 | C |
| 8 | 585 | 5.0 | 0 | C | 3.8 | -14 | 135 | -1.5 | 1.6 | -0.2 | 2 | C |
| 9 | 597 | 5.1 | 0 | C | 4.1 | 0 | 143 | -2.1 | 1.5 | 0.3 | 3 | C |
| 10 | 590 | 5.1 | 0 | C | 4.4 | 22 | 136 | -1.5 | 1.3 | 1.1 | 4 | J |
| 11 | 582 | 5.2 | 0 | C | 4.4 | -26 | 117 | -1.1 | 2.3 | -0.8 | 3 | C |
| 12 | 574 | 5.2 | 0 | C | 4.5 | -18 | 136 | -2.5 | 2.5 | -0.7 | 2 | C |
| 13 | 571 | 5.5 | 0 | C | 4.7 | -41 | 182 | -3.4 | 0.4 | -2.9 | 1 | C |
| 14 | 571 | 5.5 | 0 | C | 4.8 | 16 | 150 | -3.1 | 1.5 | 1.4 | 3 | C |
| 15 | 670 | 3.7 | 134 | J | 5.2 | 38 | 92 | -0.1 | 3.1 | 4.0 | 1 | J |
| 16 | 656 | 3.5 | 125 | J | 5.0 | 38 | 90 | 0.0 | 2.6 | 3.7 | 2 | J |
| 17 | 587 | 5.3 | 0 | C | 4.5 | -25 | 139 | -1.6 | 1.7 | -0.5 | 4 | J |
| 18 | 606 | 5.1 | 0 | C | 4.9 | 32 | 121 | -1.8 | 1.9 | 3.1 | 2 | C |
| 19 | 631 | 4.8 | 94 | J | 5.4 | 15 | 168 | -4.8 | 0.4 | 1.6 | 2 | J |
| 20 | 647 | 4.3 | 166 | J | 4.5 | 54 | 179 | -2.2 | -1.4 | 2.7 | 2 | J |
| 21 | 632 | 4.0 | 115 | J | 4.6 | 33 | 202 | -3.0 | -2.1 | 1.2 | 2 | J |
| 22 | 632 | 3.9 | 77 | J | 4.1 | 12 | 187 | -3.7 | -0.8 | 0.4 | 2 | J |
| 23 | 627 | 4.3 | 90 | J | 4.6 | -4 | 222 | -3.1 | -2.2 | -1.8 | 2 | J |
| 24 | 622 | 4.5 | 113 | J | 4.6 | -16 | 186 | -4.1 | 0.3 | -1.2 | 2 | J |

### FEB. 21, 1982

52

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 620 | 4.6 | 122 | J | 2.8 | 23 | 123 | -1.2 | 1.0 | 1.7 | 2 | J |
| 2 | 618 | 4.6 | 148 | J | 3.0 | 7 | 123 | -1.0 | 1.2 | 0.9 | 2 | J |
| 3 | 595 | 3.7 | 118 | J | 4.3 | -6 | 76 | 0.7 | 2.8 | 1.1 | 3 | J |
| 4 | 571 | 3.6 | 100 | J | 3.3 | -3 | 126 | -1.4 | 1.7 | 0.7 | 2 | J |
| 5 | 524 | 3.9 | 0 | C | 3.9 | 10 | 51 | 2.1 | 2.2 | 1.5 | 2 | C |
| 6 | 501 | 3.8 | 0 | C | 2.9 | -9 | 62 | 0.5 | 1.0 | 0.1 | 2 | C |
| 7 | 546 | 2.4 | 70 | J | 3.0 | 30 | 46 | 1.8 | 1.4 | 2.0 | 1 | J |
| 8 | 587 | 5.1 | 113 | J | 4.7 | 8 | 49 | 2.2 | 2.4 | 1.0 | 4 | J |
| 9 | 635 | 9.5 | 205 | J | 5.9 | -2 | 50 | 3.1 | 3.6 | 0.6 | 3 | J |
| 10 | 591 | 7.0 | 0 | C | 10.1 | 12 | 37 | 7.4 | 5.2 | 3.0 | 3 | C |
| 11 | 576 | 6.8 | 0 | C | 9.0 | -40 | 122 | -3.3 | 6.0 | -4.3 | 4 | C |
| 12 | 556 | 6.1 | 0 | C | 10.3 | -49 | 168 | -6.1 | 2.5 | -6.9 | 3 | C |
| 13 | 539 | 6.2 | 0 | C | 11.0 | -42 | 181 | -7.7 | 1.2 | -7.0 | 3 | C |
| 14 | 545 | 4.8 | 117 | J | 10.2 | 2 | 171 | -9.9 | 1.5 | 0.7 | 1 | J |
| 15 | 544 | 4.5 | 151 | J | 9.9 | 16 | 170 | -8.5 | 0.8 | 2.8 | 4 | J |
| 16 | 523 | 4.5 | 0 | C | 10.0 | 60 | 176 | -4.8 | -2.1 | 7.9 | 3 | C |
| 17 | 522 | 4.3 | 0 | C | 10.1 | 60 | 235 | -2.6 | -6.2 | 6.1 | 4 | C |
| 18 | 516 | 6.1 | 0 | C | 9.2 | 32 | 125 | -3.3 | 2.9 | 5.1 | 6 | C |
| 19 | 554 | 7.0 | 79 | J | 7.5 | 29 | 278 | 0.9 | -7.4 | 0.4 | 1 | J |
| 20 | 558 | 6.5 | 74 | J | 8.7 | 36 | 260 | -1.2 | -8.0 | 1.1 | 3 | J |
| 21 | 547 | 7.3 | 53 | J | 8.0 | -7 | 252 | -2.3 | -5.6 | -4.4 | 3 | J |
| 22 | 540 | 10.1 | 53 | J | 7.3 | 10 | 260 | -1.2 | -6.5 | -2.6 | 2 | J |
| 23 | 530 | 8.7 | 48 | J | 7.5 | 21 | 251 | -2.2 | -6.7 | -1.3 | 2 | J |
| 24 | 520 | 6.6 | 48 | J | 8.0 | 31 | 242 | -3.1 | -7.0 | 0.2 | 2 | J |

### FEB. 22, 1982

53

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 515 | 7.6 | 0 | C | 7.3 | 24 | 254 | -1.7 | -6.4 | -0.8 | 3 | J |
| 2 | 546 | 5.5 | 52 | J | 10.7 | -14 | 233 | -5.8 | -5.4 | -6.0 | 4 | J |
| 3 | 544 | 5.4 | 38 | J | 10.3 | -16 | 219 | -7.4 | -4.0 | -5.2 | 3 | J |
| 4 | 542 | 10.6 | 60 | J | 10.9 | -28 | 209 | -7.9 | -1.9 | -6.2 | 3 | C |
| 5 | 507 | 6.3 | 0 | C | 9.8 | -9 | 215 | -7.5 | -4.3 | -3.3 | 3 | C |
| 6 | 538 | 4.2 | 58 | J | 9.0 | 3 | 209 | -7.4 | -4.0 | -0.9 | 3 | C |
| 7 | 532 | 3.5 | 94 | J | 8.7 | 13 | 185 | -8.3 | -1.2 | 1.6 | 2 | J |
| 8 | 524 | 3.4 | 60 | J | 8.1 | -9 | 170 | -7.5 | 1.6 | -0.9 | 2 | J |
| 9 | 530 | 2.9 | 63 | J | 7.1 | -3 | 179 | -6.9 | 0.2 | -0.3 | 1 | J |
| 10 | 509 | 5.4 | 51 | J | 8.1 | -12 | 213 | -5.5 | -3.3 | -2.0 | 4 | J |
| 11 | 511 | 9.5 | 56 | J | 8.5 | -16 | 237 | -4.5 | -6.4 | -3.5 | 1 | J |
| 12 | 496 | 7.5 | 0 | C | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 560 | 9.8 | 0 | C | 11.1 | -40 | 50 | 5.3 | 8.0 | -5.2 | 1 | C |
| 16 | 560 | 9.8 | 0 | C | 10.5 | -54 | 60 | 1.2 | 3.0 | -2.6 | 9 | C |
| 17 | 592 | 13.0 | 50 | J | 9.0 | -19 | 246 | -3.2 | -5.7 | -4.9 | 3 | J |
| 18 | 562 | 15.9 | 43 | J | 7.8 | -31 | 254 | -1.7 | -4.0 | -5.7 | 3 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 599 | 9.2 | 106 | J | 10.0 | -33 | 26 | 7.2 | 5.7 | -2.7 | 3 | J |
| 22 | 593 | 14.4 | 111 | J | 8.5 | -49 | 354 | 4.3 | 2.3 | -4.5 | 5 | J |
| 23 | 615 | 10.5 | 161 | J | 7.8 | -47 | 316 | 3.8 | -0.0 | -6.7 | 1 | J |
| 24 | 547 | 11.6 | 0 | C | 11.3 | -53 | 285 | 1.7 | -0.5 | -11.0 | 1 | C |

### FEB. 23, 1982

54

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 535 | 10.9 | 0 | C | 10.7 | -55 | 288 | 1.4 | -0.3 | -8.1 | 6 | C |
| 2 | 479 | 7.4 | 0 | C | 10.8 | 27 | 203 | -5.1 | -3.3 | 1.3 | 9 | C |
| 3 | 372 | 4.4 | 0 | C | 11.0 | 39 | 192 | -8.4 | -4.8 | 5.2 | 1 | C |
| 4 | 371 | 4.2 | 0 | C | 10.7 | 25 | 194 | -9.4 | -4.0 | 3.1 | 1 | C |
| 5 | 447 | 4.3 | 0 | C | 9.9 | 8 | 204 | -8.8 | -4.1 | -0.2 | 2 | C |
| 6 | 476 | 4.1 | 0 | C | 9.6 | 8 | 191 | -8.4 | -2.0 | 0.6 | 4 | C |
| 7 | 515 | 3.6 | 48 | J | 9.7 | 24 | 180 | -8.6 | -1.1 | 3.7 | 2 | J |
| 8 | 504 | 3.9 | 35 | J | 9.5 | 8 | 184 | -9.1 | -0.9 | 1.1 | 2 | J |
| 9 | 497 | 3.2 | 29 | J | 8.8 | -7 | 192 | -8.3 | -1.5 | -1.4 | 1 | J |
| 10 | 487 | 2.0 | 28 | J | 8.4 | -8 | 192 | -7.9 | -1.5 | -1.4 | 1 | J |
| 11 | 491 | 2.1 | 32 | J | 8.1 | -4 | 205 | -7.1 | -3.1 | -1.1 | 2 | J |
| 12 | 491 | 1.7 | 63 | L | 7.9 | -19 | 217 | -5.8 | -3.9 | -3.2 | 2 | J |
| 13 | 380 | 4.1 | 0 | C | 7.8 | -23 | 224 | -5.1 | -4.2 | -3.9 | 2 | C |
| 14 | 352 | 4.4 | 0 | C | 7.4 | -26 | 221 | -5.0 | -3.5 | -4.1 | 1 | J |
| 15 | 374 | 4.6 | 0 | C | 7.4 | -34 | 219 | -4.7 | -2.6 | -4.9 | 1 | J |
| 16 | 392 | 5.3 | 0 | C | 8.0 | -38 | 221 | -4.5 | -2.3 | -5.6 | 2 | C |
| 17 | 387 | 5.1 | 0 | C | 7.9 | -46 | 171 | -5.3 | 2.8 | -4.9 | 1 | C |
| 18 | 380 | 5.0 | 0 | C | 7.0 | -52 | 214 | -3.4 | -0.0 | -5.8 | 2 | J |
| 19 | 474 | 3.0 | 54 | J | 6.4 | -51 | 202 | -3.6 | 0.8 | -5.0 | 2 | J |
| 20 | 492 | 3.4 | 35 | J | 5.9 | -79 | 53 | 0.6 | 3.3 | -4.3 | 2 | J |
| 21 | 500 | 4.2 | 28 | J | 6.0 | -56 | 28 | 2.9 | 3.8 | -3.4 | 1 | J |
| 22 | 496 | 3.8 | 30 | J | 5.9 | -57 | 336 | 2.9 | 1.5 | -4.8 | 2 | J |
| 23 | 474 | 6.1 | 31 | J | 5.7 | -42 | 343 | 3.8 | 1.0 | -3.7 | 2 | J |
| 24 | 456 | 9.3 | 29 | J | 5.9 | -28 | 352 | 5.1 | 0.9 | -2.7 | 1 | J |

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### FEB. 24, 1982

55

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 454 | 9.3 | 22 | J | 5.5 | -60 | 337 | 2.5 | 1.6 | -4.5 | 1 | J |
| 2 | 458 | 7.3 | 20 | J | 5.7 | -69 | 280 | 0.3 | 1.0 | -5.4 | 1 | J |
| 3 | 450 | 9.6 | 25 | J | 5.8 | -67 | 303 | 1.1 | 0.8 | -5.1 | 2 | J |
| 4 | 427 | 9.2 | 26 | J | 5.8 | -58 | 216 | -2.4 | 0.5 | -5.0 | 1 | J |
| 5 | | | | | 5.5 | -54 | 235 | -1.8 | -0.7 | -5.0 | 1 | J |
| 6 | | | | | 5.4 | -52 | 218 | -2.6 | -0.5 | -4.6 | 1 | J |
| 7 | 426 | 11.2 | 25 | J | 5.9 | -18 | 359 | 5.5 | 0.4 | -1.7 | 1 | J |
| 8 | 415 | 14.3 | 24 | J | 5.6 | -7 | 34 | 3.9 | 2.7 | 0.1 | 3 | J |
| 9 | 412 | 20.3 | 22 | J | 5.2 | -12 | 23 | 4.2 | 2.0 | -0.6 | 2 | J |
| 10 | 411 | 17.8 | 21 | J | 5.7 | -10 | 25 | 4.9 | 2.4 | -0.5 | 1 | J |
| 11 | 457 | 9.0 | 0 | C | 6.0 | -16 | 31 | 4.9 | 3.2 | -1.1 | 1 | C |
| 12 | 466 | 12.5 | 0 | C | 4.7 | -46 | 38 | 2.2 | 2.2 | -2.5 | 2 | C |
| 13 | 457 | 10.5 | 0 | C | | | | | | | | |
| 14 | 414 | 6.9 | 25 | J | 5.3 | -75 | 48 | 0.8 | 1.8 | -4.1 | 3 | J |
| 15 | | | | | 5.6 | -15 | 57 | 2.9 | 4.8 | -0.2 | 0 | J |
| 16 | | | | | 5.6 | -32 | 45 | 3.3 | 4.0 | -1.8 | 1 | J |
| 17 | 445 | 6.2 | 26 | J | 5.5 | -51 | 54 | 2.0 | 4.0 | -2.9 | 1 | J |
| 18 | 392 | 5.1 | 17 | J | | | | | | | | |
| 19 | 559 | 1.3 | 39 | J | | | | | | | | |
| 20 | 433 | 14.9 | 0 | C | 7.3 | -53 | 52 | 2.6 | 5.6 | -3.4 | 1 | C |
| 21 | 433 | 14.9 | 0 | C | 5.9 | -1 | 81 | 0.9 | 4.7 | 2.7 | 2 | C |
| 22 | 385 | 15.3 | 23 | J | 8.0 | -48 | 354 | 5.3 | 2.7 | -5.3 | 0 | J |
| 23 | 387 | 19.2 | 20 | J | 8.0 | -53 | 334 | 4.3 | 1.7 | -6.4 | 2 | J |
| 24 | 386 | 23.7 | 19 | J | 8.5 | -55 | 346 | 4.6 | 2.8 | -6.3 | 2 | J |

### FEB. 25, 1982

56

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 19.9 | 14 | J | 8.6 | -65 | 343 | 3.5 | 3.3 | -7.2 | 1 | J |
| 2 | 375 | 25.9 | 18 | J | 9.0 | -47 | 12 | 5.7 | 4.3 | -4.8 | 3 | J |
| 3 | 375 | 27.2 | 18 | J | 9.3 | -55 | 10 | 5.3 | 4.5 | -6.2 | 1 | J |
| 4 | 486 | 10.3 | 29 | J | 10.5 | -54 | 13 | 6.0 | 4.9 | -7.0 | 1 | J |
| 5 | 374 | 35.1 | 16 | J | 11.2 | -45 | 335 | 7.0 | -0.0 | -8.4 | 2 | J |
| 6 | 379 | 23.9 | 23 | J | 12.7 | -38 | 317 | 7.2 | -3.7 | -9.5 | 2 | J |
| 7 | 379 | 30.0 | 21 | J | 12.6 | -35 | 314 | 7.1 | -5.0 | -8.9 | 2 | J |
| 8 | 374 | 39.1 | 14 | J | 13.9 | -35 | 322 | 7.6 | -4.1 | -7.9 | 7 | J |
| 9 | 381 | 38.5 | 16 | J | 13.4 | -29 | 314 | 7.9 | -6.7 | -7.9 | 3 | J |
| 10 | 405 | 29.7 | 0 | C | 13.4 | -9 | 124 | -6.4 | 9.8 | 0.0 | 7 | C |
| 11 | 397 | 26.6 | 0 | C | 13.7 | -10 | 129 | -8.5 | 10.6 | -0.5 | 3 | C |
| 12 | 395 | 24.5 | 0 | C | 14.5 | -10 | 133 | -9.7 | 10.7 | -0.6 | 1 | C |
| 13 | 403 | 14.7 | 59 | J | 16.7 | -17 | 134 | -10.5 | 11.6 | -2.4 | 5 | J |
| 14 | 398 | 18.1 | 0 | C | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 507 | 16.0 | 0 | C | | | | | | | | |
| 20 | 507 | 16.0 | 0 | C | 16.5 | 13 | 131 | -9.6 | 8.0 | 8.2 | 6 | C |
| 21 | 534 | 15.7 | 0 | C | 15.4 | 42 | 137 | -7.2 | 1.2 | 11.0 | 7 | C |
| 22 | 532 | 15.5 | 0 | C | 15.1 | -11 | 121 | -7.0 | 11.3 | 4.0 | 4 | C |
| 23 | 531 | 15.0 | 0 | C | 14.7 | 23 | 146 | -10.1 | 2.9 | 8.1 | 5 | C |
| 24 | 521 | 13.3 | 0 | C | 14.2 | 30 | 144 | -8.7 | 1.9 | 8.6 | 5 | C |

### FEB. 26, 1982

57

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 567 | 14.0 | 0 | C | 11.8 | -9 | 173 | -8.1 | 1.5 | -0.5 | 7 | C |
| 2 | 592 | 13.7 | 0 | C | 9.5 | -41 | 177 | -5.5 | 2.7 | -3.9 | 5 | C |
| 3 | 611 | 12.3 | 0 | C | 10.7 | 2 | 150 | -6.5 | 3.1 | 2.0 | 7 | C |
| 4 | 647 | 10.2 | 0 | C | 12.3 | -9 | 150 | -8.8 | 5.3 | 0.7 | 5 | C |
| 5 | 667 | 9.1 | 0 | C | 11.6 | 6 | 147 | -5.9 | 3.1 | 2.2 | 8 | C |
| 6 | 650 | 8.5 | 0 | C | 12.0 | -20 | 149 | -7.9 | 5.7 | -1.6 | 5 | C |
| 7 | 653 | 8.7 | 0 | C | 11.8 | 17 | 124 | -4.6 | 5.9 | 4.4 | 7 | C |
| 8 | 634 | 8.8 | 0 | C | 10.9 | -18 | 148 | -7.6 | 5.4 | -1.7 | 4 | C |
| 9 | 623 | 8.9 | 0 | C | 11.2 | 15 | 159 | -8.0 | 2.6 | 2.9 | 6 | C |
| 10 | 620 | 8.7 | 0 | C | 11.9 | -17 | 145 | -8.2 | 6.2 | -1.9 | 5 | C |
| 11 | 635 | 8.8 | 0 | C | 12.0 | -25 | 114 | -4.1 | 9.8 | -3.0 | 3 | C |
| 12 | 626 | 8.8 | 0 | C | 10.9 | 18 | 167 | -8.3 | 1.3 | 3.0 | 5 | C |
| 13 | 620 | 8.8 | 0 | C | 10.8 | 40 | 152 | -6.4 | 2.2 | 6.7 | 3 | C |
| 14 | 574 | 8.0 | 0 | C | | | | | | | | |
| 15 | 574 | 8.0 | 0 | C | 10.3 | 7 | 129 | -6.0 | 6.9 | 3.2 | 2 | C |
| 16 | 599 | 7.8 | 0 | C | 10.3 | 37 | 139 | -4.9 | 2.5 | 6.0 | 6 | C |
| 17 | 626 | 8.8 | 0 | C | 9.9 | 19 | 124 | -4.4 | 5.2 | 4.9 | 4 | C |
| 18 | 608 | 8.4 | 0 | C | 10.4 | 9 | 133 | -6.8 | 5.9 | 4.4 | 2 | C |
| 19 | 600 | 8.2 | 0 | C | 10.3 | 5 | 156 | -9.1 | 3.1 | 2.6 | 2 | C |
| 20 | 601 | 8.6 | 0 | C | | | | | | | | |
| 21 | 582 | 6.5 | 0 | C | | | | | | | | |
| 22 | 582 | 6.5 | 0 | C | 6.4 | 27 | 190 | -4.8 | -2.0 | 1.6 | 3 | C |
| 23 | 611 | 5.2 | 0 | C | 6.1 | 6 | 171 | -5.2 | 0.3 | 0.9 | 3 | C |
| 24 | 563 | 5.9 | 0 | C | 5.9 | 8 | 182 | -5.6 | -0.6 | 0.6 | 1 | C |

### FEB. 27, 1982

58

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 549 | 6.4 | 0 | C | 6.1 | -9 | 177 | -5.3 | 0.7 | -0.5 | 3 | C |
| 2 | 574 | 5.6 | 0 | C | 6.0 | 8 | 135 | -3.6 | 2.7 | 2.4 | 2 | C |
| 3 | 576 | 5.4 | 0 | C | 6.0 | -1 | 167 | -4.8 | 1.0 | 0.5 | 3 | C |
| 4 | 531 | 6.0 | 0 | C | 6.2 | 10 | 166 | -5.5 | 0.8 | 1.5 | 2 | C |
| 5 | 510 | 6.3 | 0 | C | 6.6 | -8 | 162 | -6.0 | 2.2 | -0.1 | 1 | C |
| 6 | 505 | 6.1 | 0 | C | 6.8 | 14 | 163 | -5.8 | 1.1 | 2.0 | 2 | C |
| 7 | 499 | 6.0 | 0 | C | 6.7 | 22 | 155 | -5.5 | 1.7 | 3.1 | 1 | C |
| 8 | 512 | 5.5 | 0 | C | 6.7 | 1 | 182 | -6.2 | -0.3 | -0.0 | 2 | C |
| 9 | 542 | 5.5 | 0 | C | 6.3 | 18 | 196 | -4.8 | -1.7 | 1.3 | 3 | C |
| 10 | 542 | 5.4 | 0 | C | 6.4 | -33 | 212 | -3.6 | -1.6 | -3.1 | 3 | C |
| 11 | 524 | 6.1 | 0 | C | 6.5 | 17 | 115 | -1.7 | 3.4 | 1.9 | 4 | C |
| 12 | 519 | 6.3 | 0 | C | 7.1 | 5 | 92 | -0.2 | 6.5 | 1.8 | 2 | C |
| 13 | 515 | 5.6 | 0 | C | 6.7 | -6 | 144 | -4.9 | 3.7 | 0.1 | 2 | C |
| 14 | 530 | 5.2 | 0 | C | 6.1 | 17 | 182 | -5.3 | -0.5 | 1.5 | 2 | C |
| 15 | 529 | 5.2 | 0 | C | 6.2 | 5 | 188 | -5.4 | -0.9 | 0.2 | 2 | C |
| 16 | 530 | 5.1 | 0 | C | 5.9 | -12 | 185 | -5.2 | -0.1 | -1.2 | 2 | C |
| 17 | 540 | 5.0 | 0 | C | 5.8 | -39 | 188 | -4.2 | 0.7 | -3.5 | 1 | C |
| 18 | 531 | 5.2 | 0 | C | 5.9 | -31 | 185 | -4.1 | 0.7 | -2.4 | 3 | C |
| 19 | 518 | 5.4 | 0 | C | 5.3 | 36 | 168 | -3.7 | -0.6 | 2.8 | 2 | C |
| 20 | 529 | 5.2 | 0 | C | 5.5 | 43 | 132 | -2.4 | 0.6 | 4.1 | 2 | C |
| 21 | 533 | 5.7 | 0 | C | 5.1 | 3 | 133 | -2.6 | 2.3 | 1.6 | 3 | C |
| 22 | 526 | 6.2 | 0 | C | 5.7 | 21 | 146 | -3.8 | 1.2 | 2.9 | 3 | C |
| 23 | 526 | 6.3 | 0 | C | 5.4 | 8 | 102 | -1.0 | 3.4 | 3.0 | 2 | C |
| 24 | 527 | 6.0 | 0 | C | 5.6 | 6 | 125 | -2.4 | 2.7 | 2.3 | 3 | C |

### FEB. 28, 1982

59

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 524 | 5.8 | 0 | C | 5.7 | 39 | 163 | -3.4 | -0.7 | 2.9 | 3 | C |
| 2 | 526 | 5.6 | 0 | C | 5.7 | 36 | 170 | -3.6 | -0.9 | 2.7 | 3 | C |
| 3 | 530 | 5.5 | 0 | C | 5.9 | 21 | 119 | -2.3 | 2.8 | 3.6 | 2 | C |
| 4 | 524 | 5.4 | 0 | C | 6.1 | 19 | 101 | -0.7 | 2.8 | 2.8 | 4 | C |
| 5 | 519 | 5.1 | 0 | C | 6.1 | 25 | 175 | -5.1 | -0.6 | 2.3 | 2 | C |
| 6 | 523 | 4.9 | 0 | C | 5.8 | 29 | 168 | -4.8 | 0.0 | 2.9 | 1 | C |
| 7 | 523 | 4.9 | 0 | C | 5.5 | 5 | 74 | 1.2 | 3.9 | 1.6 | 3 | C |
| 8 | 529 | 4.8 | 0 | C | 5.5 | 18 | 94 | -0.3 | 3.7 | 2.4 | 3 | C |
| 9 | 531 | 4.6 | 0 | C | 5.2 | 41 | 123 | -1.4 | 1.6 | 2.6 | 4 | C |
| 10 | 521 | 4.9 | 0 | C | 5.8 | 7 | 165 | -4.6 | 1.1 | 0.8 | 3 | C |
| 11 | 515 | 5.2 | 0 | C | 6.3 | 30 | 172 | -3.3 | 0.1 | 2.0 | 5 | C |
| 12 | 509 | 5.2 | 0 | C | 5.6 | 5 | 148 | -4.6 | 2.7 | 1.0 | 1 | C |
| 13 | 492 | 5.1 | 0 | C | 6.1 | 13 | 155 | -4.9 | 2.0 | 1.7 | 2 | C |
| 14 | 487 | 5.2 | 0 | C | | | | | | | | |
| 15 | 493 | 5.2 | 0 | C | 5.6 | 11 | 160 | -4.9 | 1.4 | 1.5 | 2 | C |
| 16 | 490 | 5.5 | 0 | C | 5.8 | -8 | 179 | -5.5 | 0.3 | -0.7 | 1 | C |
| 17 | 485 | 6.0 | 0 | C | 6.1 | -22 | 148 | -3.8 | 2.8 | -0.9 | 3 | C |
| 18 | 482 | 6.7 | 0 | C | 6.8 | 7 | 116 | -2.8 | 5.0 | 3.2 | 1 | C |
| 19 | 483 | 7.0 | 0 | C | 6.3 | -17 | 158 | -4.3 | 2.2 | -0.5 | 4 | C |
| 20 | 483 | 7.1 | 0 | C | 6.1 | -20 | 188 | -4.7 | 0.3 | -1.8 | 3 | C |
| 21 | 480 | 7.3 | 0 | C | | | | | | | | |
| 22 | 475 | 7.2 | 0 | C | | | | | | | | |
| 23 | 475 | 7.2 | 0 | C | 5.4 | -11 | 166 | -4.8 | 1.5 | -0.1 | 2 | C |
| 24 | 474 | 7.4 | 0 | C | 5.6 | -11 | 134 | -3.2 | 3.2 | 1.1 | 3 | C |

### MAR. 1, 1982

60

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 461 | 7.5 | 0 | C | 6.1 | -22 | 153 | -4.4 | 3.0 | -0.4 | 3 | C |
| 2 | 454 | 7.7 | 0 | C | 5.9 | 4 | 165 | -5.4 | 1.0 | 1.0 | 2 | C |
| 3 | 436 | 10.1 | 0 | C | 8.3 | 15 | 119 | -3.3 | 4.2 | 4.4 | 4 | C |
| 4 | 501 | 12.3 | 0 | C | 8.5 | 3 | 84 | 0.8 | 6.0 | 3.3 | 4 | C |
| 5 | 489 | 13.3 | 0 | C | 7.8 | -6 | 147 | -5.2 | 3.4 | 0.8 | 4 | C |
| 6 | 438 | 13.1 | 0 | C | 8.1 | 2 | 142 | -4.8 | 3.4 | 1.5 | 5 | C |
| 7 | 508 | 12.9 | 0 | C | 8.0 | -13 | 129 | -4.0 | 5.1 | 0.1 | 4 | C |
| 8 | 511 | 12.7 | 0 | C | 8.1 | 33 | 115 | -2.6 | 4.4 | 5.3 | 3 | C |
| 9 | 507 | 12.0 | 0 | C | 7.8 | 6 | 96 | -0.5 | 4.7 | 1.6 | 5 | C |
| 10 | 498 | 11.1 | 0 | C | 7.4 | 67 | 214 | -2.3 | -2.8 | 6.1 | 2 | C |
| 11 | 489 | 10.0 | 0 | C | 8.6 | 26 | 93 | -0.4 | 6.7 | 5.0 | 2 | C |
| 12 | 652 | 32.0 | 0 | C | 17.8 | 22 | 87 | 0.9 | 14.0 | 9.3 | 8 | C |
| 13 | 679 | 36.3 | 0 | C | 27.3 | 10 | 87 | 1.4 | 24.5 | 10.1 | 6 | C |
| 14 | 656 | 19.1 | 0 | C | 33.4 | -6 | 258 | -4.9 | -21.6 | -7.7 | 23 | C |
| 15 | 684 | 27.5 | 0 | C | 31.4 | -62 | 82 | 1.8 | 19.1 | -20.0 | 14 | C |
| 16 | 694 | 36.2 | 0 | C | 26.1 | -14 | 76 | 5.7 | 23.8 | 1.8 | 7 | C |
| 17 | 649 | 24.8 | 0 | C | 27.2 | -8 | 61 | 12.7 | 22.4 | 4.9 | 6 | C |
| 18 | 624 | 19.9 | 0 | C | 26.1 | -6 | 66 | 10.4 | 22.7 | 7.1 | 2 | C |
| 19 | 566 | 16.3 | 0 | C | | | | | | | | |
| 20 | 562 | 13.2 | 0 | C | 27.9 | 8 | 61 | 13.4 | 19.1 | 15.1 | 2 | C |
| 21 | 606 | 20.2 | 0 | C | 26.5 | 9 | 61 | 12.5 | 17.3 | 15.6 | 1 | C |
| 22 | 607 | 19.8 | 0 | C | 25.9 | -53 | 271 | 0.2 | -1.5 | -24.6 | 7 | C |
| 23 | 706 | 25.4 | 0 | C | 26.0 | -48 | 14 | 16.1 | 13.6 | -13.4 | 6 | C |
| 24 | 768 | 30.3 | 0 | C | 24.1 | -52 | 13 | 14.0 | 12.9 | -13.7 | 5 | C |

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61

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 709 | 23.9 | 0 | C | 21.6 | -47 | 3 | 14.1 | 8.8 | -12.3 | 5 | C |
| 2 | 709 | 21.8 | 0 | C | 22.4 | -56 | 19 | 11.8 | 13.1 | -13.7 | 2 | C |
| 3 | 698 | 14.3 | 0 | C | 21.9 | -53 | 4 | 13.2 | 9.3 | -14.6 | 3 | C |
| 4 | 704 | 16.3 | 0 | C | 21.1 | -47 | 350 | 13.9 | 4.6 | -15.0 | 3 | C |
| 5 | 664 | 15.6 | 0 | C | 20.0 | -41 | 337 | 12.5 | -0.2 | -12.9 | 8 | C |
| 6 | 615 | 8.4 | 0 | C | 17.8 | -51 | 341 | 10.7 | 1.3 | -14.1 | 2 | C |
| 7 | 612 | 10.1 | 0 | C | 16.4 | -43 | 357 | 11.7 | 2.6 | -10.6 | 4 | C |
| 8 | 603 | 7.5 | 0 | C | 15.7 | -47 | 19 | 9.0 | 5.7 | -9.1 | 7 | C |
| 9 | 610 | 9.2 | 0 | C | 15.1 | -76 | 327 | 3.1 | 1.2 | -14.3 | 3 | C |
| 10 | 631 | 13.1 | 0 | C | 15.5 | -38 | 27 | 9.6 | 6.4 | -7.3 | 7 | C |
| 11 | 628 | 9.9 | 0 | C | 17.5 | -35 | 26 | 12.7 | 8.0 | -8.6 | 2 | C |
| 12 | 637 | 5.5 | 0 | C | 20.5 | -44 | 24 | 13.2 | 8.5 | -12.7 | 2 | C |
| 13 | 640 | 4.6 | 0 | C | | | | | | | | |
| 14 | 552 | 5.3 | 0 | C | 13.4 | -49 | 33 | 7.4 | 7.1 | -8.6 | 0 | C |
| 15 | 552 | 5.3 | 0 | C | 15.4 | -43 | 31 | 9.5 | 8.2 | -8.5 | 2 | C |
| 16 | 556 | 5.4 | 0 | C | 14.7 | -42 | 35 | 8.8 | 8.8 | -7.2 | 3 | C |
| 17 | 579 | 2.8 | 0 | C | 13.9 | -30 | 40 | 9.1 | 9.6 | -3.6 | 2 | C |
| 18 | 572 | 2.8 | 0 | C | 10.1 | -22 | 59 | 4.4 | 8.3 | -0.2 | 3 | C |
| 19 | 616 | 6.5 | 0 | C | 8.8 | -38 | 79 | 1.2 | 8.3 | -1.7 | 2 | C |
| 20 | 570 | 4.0 | 0 | C | | | | | | | | |
| 21 | 595 | 3.8 | 0 | C | 6.5 | -43 | 99 | -0.7 | 6.1 | -1.2 | 0 | C |
| 22 | 595 | 3.8 | 0 | C | 7.9 | -31 | 13 | 6.5 | 3.4 | -2.6 | 1 | C |
| 23 | 616 | 3.1 | 0 | C | 7.4 | -28 | 9 | 6.4 | 2.8 | -2.3 | 1 | C |
| 24 | 502 | 4.2 | 0 | C | 7.6 | -36 | 19 | 5.9 | 4.2 | -2.6 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 617 | 1.1 | 214 | L | | | | | | | | |
| 7 | 624 | 1.3 | 208 | L | 6.4 | -7 | 36 | 5.1 | 3.7 | 0.4 | 1 | C |
| 8 | 571 | 1.9 | 265 | L | 6.1 | -12 | 68 | 2.0 | 5.0 | 0.2 | 3 | J |
| 9 | | | | | 5.9 | -33 | 131 | -3.1 | 4.1 | -2.2 | 2 | J |
| 10 | | | | | 5.9 | -23 | 139 | -4.1 | 4.0 | -1.5 | 0 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 490 | 10.2 | 0 | C | 3.8 | -37 | 91 | -0.1 | 3.5 | -1.4 | 0 | C |
| 16 | 490 | 10.2 | 0 | C | 3.8 | -37 | 130 | -1.8 | 2.7 | -1.3 | 1 | C |
| 17 | 486 | 8.6 | 0 | C | 4.8 | -31 | 100 | -0.7 | 4.3 | -0.8 | 2 | C |
| 18 | 500 | 10.8 | 0 | C | 5.1 | -21 | 120 | -2.4 | 4.5 | 0.0 | 1 | C |
| 19 | 525 | 12.6 | 0 | C | 5.8 | -21 | 105 | -1.4 | 5.6 | 0.5 | 1 | C |
| 20 | 520 | 13.3 | 38 | J | 4.8 | -7 | 126 | -2.7 | 3.6 | 1.4 | 1 | C |
| 21 | 515 | 13.3 | 0 | C | 4.4 | 6 | 139 | -3.1 | 2.1 | 1.8 | 1 | C |
| 22 | 500 | 13.7 | 30 | J | 4.0 | 15 | 121 | -1.8 | 2.0 | 2.4 | 2 | J |
| 23 | 502 | 14.6 | 31 | J | 3.7 | 2 | 105 | -1.0 | 2.9 | 2.1 | 1 | J |
| 24 | 484 | 11.4 | 0 | C | 5.1 | -16 | 105 | -1.1 | 4.3 | 1.3 | 2 | C |

# 03/04/82 – 03/11/82

MAR. 4, 1982

63

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 484 | 11.8 | 0 | C | 5.4 | 42 | 150 | -3.3 | -0.3 | 3.9 | 1 | C |
| 2 | 500 | 11.3 | 52 | J | 4.9 | 46 | 155 | -3.0 | -0.6 | 3.6 | 2 | J |
| 3 | 487 | 11.0 | 55 | J | 5.2 | 50 | 123 | -1.8 | 0.5 | 4.8 | 1 | J |
| 4 | 503 | 11.5 | 0 | C | 5.4 | 51 | 148 | -2.8 | -0.3 | 4.5 | 1 | C |
| 5 | 487 | 10.6 | 0 | C | 6.1 | 28 | 149 | -4.6 | 1.4 | 3.7 | 1 | C |
| 6 | 491 | 11.8 | 0 | C | 7.1 | 20 | 151 | -5.7 | 2.2 | 3.4 | 1 | C |
| 7 | 504 | 14.9 | 0 | C | 6.8 | 22 | 136 | -4.5 | 3.3 | 3.7 | 2 | C |
| 8 | 493 | 19.0 | 75 | J | 6.8 | 11 | 142 | -5.0 | 3.4 | 2.2 | 2 | J |
| 9 | 495 | 14.4 | 0 | C | 5.4 | 21 | 127 | -2.8 | 3.2 | 2.5 | 3 | C |
| 10 | 484 | 14.5 | 0 | C | 8.1 | -8 | 94 | -0.5 | 6.5 | 0.4 | 5 | C |
| 11 | 480 | 15.5 | 0 | C | 5.7 | -69 | 63 | 0.8 | 2.5 | -4.4 | 2 | C |
| 12 | 476 | 14.7 | 0 | C | 6.6 | -4 | 107 | -1.9 | 5.9 | 0.7 | 2 | C |
| 13 | 471 | 13.1 | 0 | C | 5.9 | 21 | 119 | -2.5 | 4.0 | 2.8 | 2 | C |
| 14 | 469 | 12.3 | 0 | C | 4.8 | 17 | 112 | -1.7 | 3.7 | 2.4 | 0 | C |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 485 | 15.6 | 84 | J | 3.8 | -8 | 140 | -2.3 | 1.9 | 0.3 | 3 | J |
| 18 | 471 | 11.2 | 0 | C | 6.7 | -1 | 184 | -6.5 | -0.4 | -0.3 | 1 | C |
| 19 | 453 | 7.0 | 48 | J | 7.0 | 58 | 309 | 2.3 | -5.1 | 3.8 | 1 | J |
| 20 | 455 | 5.7 | 35 | J | 7.5 | 49 | 315 | 3.3 | -5.5 | 3.0 | 2 | J |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

MAR. 5, 1982

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 6.9 | 73 | J | 6.0 | 16 | 107 | -1.6 | 3.7 | 4.2 | 2 | J |
| 528 | 6.9 | 99 | J | 7.7 | 8 | 104 | -1.8 | 5.7 | 4.4 | 2 | J |
| 545 | 7.1 | 108 | J | 7.3 | 25 | 96 | -0.7 | 4.2 | 5.4 | 2 | J |
| 526 | 10.5 | 0 | C | 8.6 | -42 | 127 | -3.6 | 6.5 | -3.0 | 2 | C |
| 506 | 9.1 | 69 | J | 8.5 | -21 | 102 | -1.1 | 5.6 | -0.1 | 6 | J |
| 506 | 9.4 | 107 | J | 3.6 | 47 | 69 | 0.7 | 1.1 | 2.6 | 3 | J |
| 478 | 8.6 | 0 | C | 3.6 | -6 | 86 | 0.2 | 3.3 | 0.5 | 2 | J |
| 492 | 4.3 | 0 | C | 4.9 | 37 | 79 | 0.2 | 0.9 | 1.0 | 4 | C |
| 544 | 7.9 | 103 | J | 3.5 | 30 | 44 | 1.6 | 1.3 | 1.6 | 3 | J |
| 530 | 5.5 | 0 | C | 3.2 | -7 | 69 | 1.0 | 2.7 | 0.2 | 1 | C |
| 530 | 5.5 | 0 | C | 2.8 | 23 | 84 | 0.2 | 1.9 | 1.3 | 2 | C |
| 493 | 6.5 | 0 | C | 4.4 | 10 | 55 | 2.5 | 3.3 | 1.5 | 0 | C |
| 522 | 4.9 | 101 | J | 4.2 | -1 | 48 | 2.8 | 3.0 | 0.7 | 0 | J |
| 511 | 6.1 | 42 | J | 3.9 | 10 | 43 | 2.7 | 2.3 | 1.3 | 1 | J |
| 481 | 5.8 | 0 | C | 3.7 | 1 | 50 | 2.3 | 2.6 | 1.0 | 1 | C |
| 502 | 5.5 | 37 | J | 3.9 | -11 | 63 | 1.7 | 3.4 | 0.6 | 1 | J |
| 453 | 5.5 | 0 | C | 3.5 | -35 | 110 | -0.9 | 3.1 | -0.7 | 1 | C |
| 469 | 4.8 | 0 | C | 3.0 | -26 | 146 | -2.2 | 1.9 | -0.5 | 0 | C |
| 487 | 4.3 | 0 | C | 3.0 | -23 | 155 | -2.5 | 1.6 | -0.4 | 0 | C |
| 484 | 4.4 | 0 | C | 3.0 | -19 | 142 | -2.2 | 1.9 | 0.1 | 0 | C |
| 477 | 3.9 | 35 | J | 3.1 | -9 | 145 | -2.3 | 1.6 | 0.5 | 1 | J |
| 476 | 4.1 | 37 | J | 3.0 | -10 | 147 | -2.4 | 1.6 | 0.5 | 1 | J |
| 470 | 3.9 | 0 | C | 3.0 | -3 | 159 | -2.8 | 1.0 | 0.5 | 0 | C |

MAR. 6, 1982

65

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 455 | 4.1 | 0 | C | 2.7 | -6 | 160 | -2.5 | 0.9 | 0.3 | 0 | C |
| 2 | 451 | 4.0 | 0 | C | 2.8 | -4 | 161 | -2.6 | 0.9 | 0.3 | 0 | C |
| 3 | 452 | 3.7 | 0 | C | 2.8 | -2 | 155 | -2.6 | 1.1 | 0.5 | 0 | C |
| 4 | 448 | 3.7 | 0 | C | 2.8 | -6 | 155 | -2.5 | 1.2 | 0.3 | 0 | C |
| 5 | 439 | 3.5 | 0 | C | 2.8 | -3 | 152 | -2.5 | 1.3 | 0.4 | 0 | C |
| 6 | 432 | 3.3 | 0 | C | 2.8 | 1 | 148 | -2.4 | 1.4 | 0.6 | 0 | C |
| 7 | 424 | 3.5 | 0 | C | 2.9 | 6 | 147 | -2.5 | 1.4 | 0.8 | 0 | C |
| 8 | 429 | 3.3 | 34 | J | 3.1 | 6 | 142 | -2.4 | 1.7 | 0.8 | 0 | J |
| 9 | 421 | 3.8 | 0 | C | 3.1 | 18 | 146 | -2.5 | 1.4 | 1.3 | 0 | C |
| 10 | 425 | 4.0 | 0 | C | 3.0 | 25 | 143 | -2.1 | 1.3 | 1.6 | 0 | C |
| 11 | 412 | 3.6 | 26 | J | 3.2 | 14 | 140 | -2.3 | 1.7 | 1.1 | 1 | J |
| 12 | 406 | 3.6 | 18 | J | 3.1 | 13 | 140 | -2.2 | 1.7 | 1.0 | 0 | J |
| 13 | 403 | 3.8 | 21 | J | 3.8 | 26 | 171 | -3.0 | 0.1 | 1.6 | 2 | J |
| 14 | 387 | 4.7 | 25 | J | 3.7 | 8 | 290 | 1.1 | -3.0 | -0.3 | 2 | J |
| 15 | 372 | 5.5 | 0 | C | 4.0 | -1 | 308 | 2.4 | -2.9 | -0.9 | 1 | C |
| 16 | 359 | 6.6 | 0 | C | 4.3 | 11 | 314 | 2.9 | -3.1 | -0.2 | 1 | C |
| 17 | 356 | 6.0 | 0 | C | 5.8 | 39 | 295 | 1.9 | -5.1 | 1.8 | 0 | J |
| 18 | 367 | 5.6 | 0 | C | 5.8 | 34 | 309 | 3.0 | -4.7 | 1.4 | 1 | J |
| 19 | 371 | 5.4 | 20 | J | 5.8 | 25 | 307 | 3.1 | -4.8 | 0.2 | 1 | J |
| 20 | 365 | 4.1 | 21 | J | 6.1 | 25 | 311 | 3.6 | -4.8 | 0.1 | 1 | J |
| 21 | 351 | 5.2 | 0 | C | 6.2 | 24 | 322 | 4.5 | -4.3 | 0.3 | 0 | J |
| 22 | 346 | 6.2 | 0 | C | 6.3 | 18 | 333 | 5.3 | -3.3 | 0.1 | 1 | J |
| 23 | 340 | 5.5 | 17 | J | 6.3 | 18 | 342 | 5.5 | -2.5 | 0.5 | 1 | J |
| 24 | 344 | 6.1 | 0 | C | 6.4 | 49 | 302 | 2.2 | -5.5 | 1.9 | 1 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 349 | 5.5 | 0 | C | 6.3 | 36 | 177 | -5.1 | -1.8 | 3.2 | 0 | J |
| 336 | 5.8 | 0 | C | 6.6 | 34 | 297 | 2.5 | -6.0 | 0.5 | 1 | C |
| 355 | 4.4 | 22 | J | 6.4 | 37 | 302 | 2.6 | -5.5 | 1.1 | 1 | C |
| 332 | 6.7 | 0 | C | 6.4 | 40 | 289 | 1.6 | -5.9 | 1.5 | 1 | C |
| 335 | 7.1 | 0 | C | 6.7 | 51 | 309 | 2.5 | -4.9 | 3.3 | 1 | C |
| 343 | 7.4 | 0 | C | 7.0 | 57 | 297 | 1.6 | -4.9 | 4.0 | 2 | C |
| 361 | 6.2 | 18 | J | 6.7 | 48 | 280 | 0.8 | -5.6 | 3.3 | 1 | J |
| 369 | 6.8 | 20 | J | 6.6 | 37 | 262 | -0.7 | -6.0 | 2.4 | 1 | J |
| 338 | 8.4 | 0 | C | 6.5 | 43 | 311 | 3.1 | -4.5 | 3.5 | 1 | C |
| 341 | 8.5 | 0 | C | 7.0 | 50 | 284 | 1.1 | -5.3 | 4.3 | 1 | C |
| 344 | 8.9 | 0 | C | 7.0 | 49 | 305 | 2.5 | -4.5 | 4.2 | 2 | C |
| 348 | 9.5 | 0 | C | 7.6 | 42 | 277 | 0.7 | -6.5 | 3.8 | 1 | C |
| 347 | 9.6 | 0 | C | 7.7 | 31 | 277 | 0.8 | -7.3 | 2.5 | 1 | C |
| 342 | 9.8 | 0 | C | 7.9 | 38 | 273 | 0.3 | -7.2 | 3.2 | 1 | C |
| 341 | 10.3 | 0 | C | 8.0 | 36 | 267 | -0.4 | -7.5 | 2.6 | 1 | C |
| 348 | 9.5 | 18 | J | 8.0 | 42 | 305 | 3.2 | -5.9 | 3.2 | 1 | J |
| 348 | 9.8 | 20 | J | 8.1 | 31 | 263 | -0.8 | -7.8 | 1.3 | 2 | J |
| 335 | 10.6 | 16 | J | 7.7 | 11 | 31 | 6.0 | 2.7 | 2.7 | 3 | J |
| 339 | 9.9 | 20 | J | 8.0 | 58 | 347 | 4.0 | -3.9 | 5.4 | 1 | J |
| 346 | 10.7 | 33 | J | 7.2 | 57 | 282 | 0.7 | -5.8 | 3.0 | 3 | J |
| 340 | 8.6 | 22 | J | 8.1 | 83 | 258 | -0.2 | -4.8 | 5.9 | 3 | J |
| 338 | 8.7 | 27 | J | 7.6 | 46 | 299 | 2.3 | -6.1 | 1.8 | 3 | J |
| 342 | 8.6 | 39 | J | 6.9 | 10 | 298 | 2.8 | -4.9 | -2.1 | 3 | J |
| 338 | 10.7 | 19 | J | 8.0 | 19 | 289 | 2.4 | -7.1 | -1.8 | 2 | J |

MAR. 8, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 331 | 7.8 | 35 | J | 7.8 | -7 | 319 | 5.6 | -3.6 | -3.5 | 2 | J |
| 2 | 328 | 7.5 | 36 | J | 7.7 | -11 | 326 | 6.2 | -2.8 | -3.4 | 1 | J |
| 3 | 351 | 3.9 | 62 | J | 8.5 | -9 | 321 | 6.2 | -3.7 | -3.6 | 2 | J |
| 4 | 357 | 3.3 | 81 | J | 8.6 | -6 | 320 | 6.3 | -4.3 | -3.2 | 2 | J |
| 5 | 382 | 4.8 | 0 | C | 9.0 | 1 | 313 | 5.9 | -5.9 | -2.4 | 2 | J |
| 6 | 395 | 2.7 | 60 | J | 8.7 | 13 | 300 | 4.1 | -7.3 | -0.8 | 2 | J |
| 7 | 351 | 2.9 | 53 | J | 8.2 | 12 | 304 | 4.3 | -6.6 | -0.4 | 2 | J |
| 8 | 386 | 2.7 | 65 | J | 8.3 | 7 | 307 | 4.7 | -6.3 | -0.7 | 2 | J |
| 9 | 385 | 2.7 | 61 | J | 8.2 | 9 | 309 | 4.8 | -6.0 | -0.2 | 3 | J |
| 10 | 367 | 6.5 | 0 | C | 8.7 | -3 | 308 | 5.2 | -6.5 | -1.8 | 2 | C |
| 11 | 363 | 7.3 | 0 | C | 8.7 | 11 | 306 | 4.9 | -6.9 | 0.2 | 2 | C |
| 12 | 357 | 8.5 | 0 | C | 8.4 | 3 | 304 | 4.5 | -6.5 | -0.9 | 2 | C |
| 13 | 349 | 10.9 | 0 | C | 8.2 | 30 | 309 | 4.2 | -5.8 | 2.6 | 1 | C |
| 14 | 341 | 12.8 | 0 | C | 9.1 | 1 | 334 | 7.5 | -3.7 | -0.8 | 3 | C |
| 15 | 339 | 9.8 | 43 | J | 9.9 | -3 | 317 | 7.2 | -6.3 | -2.4 | 2 | J |
| 16 | 332 | 10.3 | 40 | J | 10.3 | -3 | 318 | 7.3 | -6.1 | -2.7 | 3 | J |
| 17 | 331 | 15.9 | 0 | C | 11.9 | -9 | 313 | 7.6 | -6.8 | -4.7 | 3 | C |
| 18 | 333 | 12.4 | 27 | J | 12.0 | 4 | 307 | 7.1 | -8.9 | -3.3 | 1 | J |
| 19 | 335 | 13.5 | 24 | J | 12.0 | -1 | 306 | 6.6 | -8.0 | -4.4 | 4 | J |
| 20 | 357 | 15.1 | 43 | J | 11.5 | 3 | 299 | 5.4 | -8.7 | -4.4 | 3 | J |
| 21 | 341 | 17.5 | 30 | J | 11.6 | -23 | 318 | 7.7 | -3.5 | -7.4 | 3 | J |
| 22 | 344 | 19.9 | 47 | J | 11.8 | -14 | 304 | 5.9 | -5.8 | -7.1 | 4 | J |
| 23 | 345 | 19.9 | 53 | J | 13.4 | -11 | 308 | 7.7 | -6.7 | -7.6 | 4 | J |
| 24 | 356 | 15.2 | 117 | J | 12.9 | -41 | 338 | 8.7 | 1.7 | -8.7 | 4 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 357 | 19.8 | 0 | C | 9.5 | -2 | 271 | 0.1 | -5.1 | -3.7 | 7 | J |
| 346 | 20.1 | 0 | C | 8.5 | 23 | 266 | -0.5 | -7.2 | -1.1 | 4 | J |
| 368 | 15.1 | 126 | J | 8.8 | 36 | 253 | -2.0 | -8.3 | 1.1 | 2 | J |
| 355 | 18.2 | 0 | C | 9.1 | 55 | 246 | -2.0 | -7.3 | 4.3 | 3 | J |
| 348 | 18.0 | 0 | C | 8.6 | 21 | 264 | -0.9 | -8.0 | -0.4 | 2 | C |
| 343 | 17.7 | 0 | C | 8.7 | 22 | 263 | -1.0 | -8.1 | 0.2 | 3 | C |
| 347 | 19.1 | 0 | C | 7.8 | 76 | 70 | 0.4 | -0.4 | 4.8 | 6 | C |
| 350 | 20.5 | 0 | C | 9.7 | 31 | 279 | 1.3 | -9.0 | 2.5 | 2 | C |
| 362 | 22.9 | 0 | C | 14.3 | 12 | 278 | 2.0 | -14.0 | -0.3 | 2 | C |
| 392 | 17.8 | 97 | J | 14.7 | 13 | 281 | 2.7 | -14.4 | 0.3 | 1 | J |
| 406 | 17.4 | 95 | J | 14.1 | 13 | 275 | 1.1 | -12.4 | 0.3 | 7 | J |
| 380 | 30.5 | 0 | C | 7.8 | 7 | 339 | 4.2 | -1.7 | 0.2 | 7 | J |
| 381 | 26.7 | 0 | C | 9.8 | -32 | 350 | 5.0 | -0.2 | -3.3 | 8 | J |
| 399 | 17.1 | 0 | C | 12.4 | -12 | 299 | 5.6 | -9.2 | -4.9 | 4 | C |
| 432 | 11.2 | 0 | C | 14.5 | -34 | 27 | 10.0 | 7.1 | -5.8 | 6 | J |
| 464 | 11.8 | 0 | C | 12.4 | -39 | 15 | 9.2 | 4.8 | -6.4 | 3 | J |
| 472 | 13.9 | 0 | C | 11.7 | -24 | 342 | 9.3 | -1.2 | -5.2 | 5 | J |
| 463 | 14.2 | 0 | C | 9.9 | -17 | 341 | 6.8 | -1.2 | -3.0 | 6 | J |
| 467 | 10.9 | 352 | L | 10.5 | -13 | 313 | 5.8 | -4.6 | -4.7 | 6 | J |
| 466 | 10.0 | 347 | L | 9.7 | -8 | 322 | 5.5 | -3.2 | -3.0 | 6 | J |
| 446 | 9.0 | 319 | L | 10.4 | 4 | 322 | 7.2 | -5.1 | -2.5 | 5 | J |
| 508 | 11.6 | 0 | C | 11.0 | 31 | 205 | -4.1 | -3.0 | 1.1 | 9 | C |
| 502 | 7.5 | 0 | C | 15.8 | -36 | 341 | 11.7 | 1.9 | -9.7 | 4 | C |
| 505 | 5.5 | 0 | C | 16.5 | -31 | 347 | 13.5 | 2.0 | -8.6 | 3 | C |

MAR. 10, 1982

69

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 456 | 4.1 | 0 | C | 14.5 | -24 | 311 | 8.7 | -7.1 | -9.1 | 0 | C |
| 7 | 456 | 4.1 | 0 | C | 14.4 | -24 | 313 | 9.0 | -7.3 | -8.6 | 1 | C |
| 8 | 472 | 3.8 | 0 | C | 13.9 | -26 | 315 | 8.7 | -6.7 | -8.2 | 2 | C |
| 9 | 495 | 3.8 | 0 | C | 13.0 | -15 | 292 | 3.7 | -8.5 | -4.8 | 8 | C |
| 10 | 446 | 8.0 | 0 | C | 10.4 | 30 | 190 | -7.7 | -2.3 | 4.1 | 5 | C |
| 11 | 443 | 12.7 | 0 | C | 6.0 | 65 | 210 | -0.5 | -0.5 | 1.1 | 6 | C |
| 12 | 446 | 15.1 | 0 | C | 5.3 | -5 | 318 | 2.9 | -2.5 | -0.9 | 3 | C |
| 13 | 447 | 14.6 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 397 | 9.7 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 397 | 9.7 | 0 | C | 6.0 | 15 | 325 | 3.8 | -3.0 | 0.4 | 3 | C |
| 16 | 399 | 9.1 | 0 | C | 6.9 | -5 | 326 | 5.3 | -3.2 | -1.7 | 2 | C |
| 17 | 397 | 8.4 | 0 | C | 7.1 | 16 | 325 | 4.4 | -3.4 | 0.3 | 4 | C |
| 18 | 386 | 9.1 | 0 | C | 7.0 | 41 | 129 | -3.0 | 1.6 | 5.3 | 3 | C |
| 19 | 388 | 9.2 | 0 | C | 6.7 | 45 | 99 | -0.7 | 1.7 | 5.8 | 2 | C |
| 20 | 386 | 8.6 | 0 | C | 5.9 | -2 | 349 | 5.7 | -0.9 | -0.8 | 1 | C |
| 21 | 381 | 7.2 | 0 | C | 6.0 | -15 | 318 | 4.1 | -2.3 | -3.3 | 2 | C |
| 22 | 380 | 6.2 | 0 | C | 6.0 | -16 | 316 | 4.1 | -2.3 | -3.5 | 1 | C |
| 23 | 379 | 6.1 | 0 | C | 5.9 | -25 | 326 | 4.3 | -1.0 | -3.6 | 2 | C |
| 24 | 378 | 6.3 | 0 | C | 5.7 | -32 | 333 | 3.9 | -0.1 | -3.4 | 2 | C |

MAR. 11, 1982

70

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 356 | 6.6 | 0 | C | 5.6 | -4 | 342 | 5.1 | -1.2 | -1.2 | 1 | C |
| 362 | 6.7 | 0 | C | 6.5 | -25 | 321 | 4.4 | -1.6 | -4.1 | 1 | C |
| 373 | 6.5 | 0 | C | 6.7 | -43 | 349 | 4.7 | 1.4 | -4.3 | 1 | C |
| 372 | 6.0 | 0 | C | 6.8 | -24 | 350 | 5.9 | 0.3 | -2.9 | 1 | C |
| 375 | 5.6 | 0 | C | 6.9 | -10 | 356 | 6.6 | 0.1 | -1.3 | 1 | C |
| 374 | 5.8 | 0 | C | 6.5 | -20 | 4 | 6.0 | 1.2 | -1.9 | 1 | C |
| 365 | 6.5 | 0 | C | 6.1 | -6 | 20 | 5.5 | 2.0 | 0.0 | 1 | C |
| 359 | 6.8 | 0 | C | 5.6 | 35 | 48 | 2.9 | 2.2 | 3.8 | 2 | C |
| 363 | 7.3 | 0 | C | 5.4 | 55 | 109 | -0.9 | 1.7 | 4.6 | 2 | C |
| 364 | 8.8 | 0 | C | 4.3 | 57 | 50 | 1.2 | 0.8 | 3.2 | 2 | C |
| 361 | 9.9 | 0 | C | 4.6 | -21 | 343 | 2.7 | -0.6 | -1.2 | 3 | C |
| 350 | 10.9 | 0 | C | 4.2 | -20 | 286 | 1.0 | -3.0 | -1.9 | 2 | C |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 353 | 7.8 | 0 | C | 4.0 | 11 | 267 | -0.2 | -3.9 | -0.2 | 0 | C |
| 353 | 7.8 | 0 | C | 5.4 | 25 | 265 | -0.3 | -3.5 | 0.5 | 3 | C |
| 363 | 7.4 | 0 | C | 5.6 | 12 | 293 | 1.8 | -4.2 | -0.4 | 3 | C |
| 363 | 7.5 | 0 | C |  |  |  |  |  |  |  |  |
| 350 | 6.1 | 0 | C | 6.7 | -13 | 322 | 5.1 | -2.9 | -3.1 | 0 | C |
| 350 | 6.1 | 0 | C | 6.7 | -24 | 322 | 4.7 | -2.0 | -4.1 | 1 | C |
| 349 | 5.8 | 0 | C | 5.6 | -35 | 318 | 3.3 | -1.0 | -4.1 | 2 | C |
| 349 | 6.2 | 0 | C | 5.5 | -8 | 304 | 3.0 | -3.3 | -3.0 | 1 | C |
| 354 | 5.6 | 0 | C | 5.7 | 3 | 302 | 3.0 | -4.1 | -2.4 | 0 | C |
| 339 | 7.9 | 0 | C | 4.5 | -9 | 318 | 3.2 | -2.0 | -2.2 | 1 | C |
| 327 | 7.7 | 0 | C | 4.9 | 16 | 323 | 3.7 | -3.1 | -0.5 | 1 | C |

ORIGINAL PAGE IS
OF POOR QUALITY

03/12/82 – 03/19/82

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HR     VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC MAGN LAT LON                    SC
                                                          71
                      MAR. 12, 1982

  1    335  7.4   0  C   4.6  -5 301   2.3  -2.9  -2.4  1  C
  2    335  7.6   0  C   4.6 -10 294   1.8  -3.0  -2.8  1  C
  3    335  7.7   0  C   4.8 -11 293   1.8  -3.3  -2.9  0  C
  4    327  7.6   0  C   4.5  16 312   2.8  -3.4  -0.3  1  C
  5    328  7.6   0  C   4.6  23 304   2.3  -3.8   0.2  1  C
  6    331  8.0   0  C   4.7  25 289   1.3  -4.0   0.4  2  C
  7    334  8.7   0  C   4.8  24 263  -0.5  -4.6   0.5  1  C
  8    331  9.5   0  C   4.9  31 291   1.4  -4.2   1.3  1  C
  9    325 10.2   0  C   4.8  18 302   2.3  -3.9   0.5  1  C
 10    319 10.7   0  C   4.9  10 306   2.8  -3.9   0.0  1  C
 11    316 10.7   0  C   5.1  12 323   3.8  -3.1   0.4  1  C
 12    319 10.9   0  C   5.0  22 284   1.0  -4.5   0.9  2  C
 13    322 11.1   0  C   5.5  46 283   0.8  -4.2   2.8  2  C
 14    332 14.0   0  C
 15    344 18.6   0  C   8.9  14 278   1.1  -8.4  -0.4  2  C
 16    336 16.6   0  C  10.2 -30 307   5.1  -4.7  -6.8  3  C
 17    354 22.5   0  C   9.0 -25 308   3.8  -3.4  -4.4  6  C
 18    373 24.8   0  C   8.7  49 221  -3.7  -5.3   3.7  4  C
 19    354 18.9   0  C  10.7  11 287   2.9  -9.5  -2.8  3  C
 20    341 15.7   0  C  10.1  11 279   1.5  -9.2  -3.2  2  C
 21    334 15.9   0  C  10.1  19 291   3.4  -9.1  -2.0  1  C
 22    341 20.6   0  C   9.8  19 292   2.9  -7.3  -1.7  5  C
 23    328 29.2   0  C   7.6  15 286   1.3  -4.4  -1.5  5  C
 24    325 30.2   0  C   8.4  29 342   4.6  -2.8   1.4  6  C

                                                          73
                      MAR. 14, 1982

  1    335 15.2   0  C   5.1  -3 260  -0.4  -1.9  -1.4  4  C
  2    330 17.1   0  C   4.9  -9 317   3.0  -2.0  -2.1  2  C
  3    334 16.9   0  C   5.6  10 329   4.7  -3.0  -0.5  0  C
  4    325 17.4   0  C   6.0   6 335   5.4  -2.5  -0.6  1  C
  5    296 16.8   0  C   7.4   7 334   6.6  -3.4  -0.5  0  C
  6    306 17.7   0  C   6.7  11 330   5.5  -3.5   0.0  2  C
  7    307 16.9   0  C   6.1  16 330   4.9  -3.2   0.6  1  C
  8    307 16.7   0  C   6.0  26 331   4.6  -3.2   1.8  1  C
  9    301 15.4   0  C   6.8   9 333   5.9  -3.1   0.4  1  C
 10    306 15.0   0  C   6.8   6 309   4.0  -4.9  -0.5  2  C
 11    315 16.0   0  C   7.0 -23 303   3.2  -4.4  -3.5  2  C
 12    302 16.7   0  C   6.8 -26 323   4.8  -3.0  -3.7  0  C
 13    313 16.2   0  C
 14    313 16.2   0  C   7.3 -14 308   4.1  -4.7  -2.9  2  C
 15    310 15.3   0  C   7.1  -3 310   4.2  -4.6  -1.8  3  C
 16    321 16.2   0  C   6.8 -32 294   2.2  -3.6  -5.0  1  C
 17    309 14.9   0  C   6.8 -18 296   2.7  -4.5  -4.1  1  C
 18    303 11.4   0  C   6.7  -9 294   2.4  -4.4  -3.0  3  C
 19    322 17.6   0  C   5.9 -27 273   0.3  -3.0  -4.3  2  C
 20    312 18.0   0  C   6.2  -9 292   2.2  -4.3  -3.7  1  C
 21    312 19.7   0  C   6.5   5 292   2.4  -5.2  -2.8  1  C
 22    313 19.4   0  C   6.5  -9 290   2.2  -4.4  -4.1  1  C
 23    314 23.0   0  C   5.1 -29 281   0.8  -2.1  -4.4  2  C
 24    312 24.8   0  C   4.4 -57 246  -1.0   0.3  -4.2  1  C

                                                          75
                      MAR. 16, 1982

  1
  2
  3
  4
  5
  6
  7    265 12.3   0  C   7.5  -4 250  -2.5  -6.5  -2.7  0  C
  8    265 12.3   0  C   7.3  -5 242  -3.4  -6.0  -2.3  1  C
  9    261 12.0   0  C   7.2  -1 248  -2.7  -6.4  -1.6  1  C
 10    263 10.9   0  C   7.1   0 256  -1.7  -6.7  -1.5  1  C
 11    263 10.4   0  C   6.3  -1 266  -0.5  -6.0  -1.3  1  C
 12    269 12.6   0  C
 13    264 17.9   0  C   5.5  21 211  -4.0  -2.7   1.2  2  C
 14    264 17.9   0  C   5.1   9 225  -3.2  -3.2  -0.1  2  C
 15    261 18.1   0  C   4.9   1 255  -1.3  -4.5  -1.3  1  C
 16    260 18.2   0  C   5.4   7 243  -2.4  -4.7  -1.0  1  C
 17    259 16.2   0  C   6.5   8 241  -3.1  -5.5  -1.3  1  C
 18    257 14.9   0  C   4.4  10 229  -2.8  -3.3  -0.7  1  C
 19    258 19.1   0  C   4.2 -10 238  -2.0  -2.6  -2.2  1  C
 20    256 22.0   0  C   5.3  -3 233  -3.1  -3.4  -2.3  1  C
 21    253 21.0   0  C   5.3  20 230  -3.2  -4.2  -0.6  0  C
 22    259 23.2   0  C   6.3  19 203  -5.3  -2.9   0.4  2  C
 23    255 28.4   0  C   6.1  35 188  -4.7  -2.4   2.3  2  C
 24    255 38.9   0  C

                                                          77
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  1    362 22.0   0  C  33.2 -40  87   1.4  32.9  -3.6  2  C
  2    461 14.8   0  C  31.5 -32 100  -4.6  30.4  -0.3  6  C
  3    461 14.8   0  C  28.2 -15 112  -9.8  24.5   5.9  7  C
  4    472 22.1   0  C  27.5  -7 125 -15.2  20.5   7.2  5  C
  5    470 29.2   0  C  26.3  12 134 -16.5  13.4  11.4  9  C
  6    526 28.5   0  C  22.7  12 134 -14.4  12.3   9.6  7  C
  7    563 25.2   0  C  23.4  29 131 -12.0  10.0  13.9  7  C
  8    566 23.9   0  C  22.0   3 130 -13.2  14.9   5.3  6  C
  9    550 21.3   0  C  16.5 -18 135  -9.4  10.1  -2.0  7  C
 10    613 20.7   0  C  15.1   7 146 -11.8   7.3   3.3  4  C
 11    588 16.7   0  C  12.8   5 143  -9.7   6.9   2.5  3  C
 12    596 12.5   0  C   9.0  21 136  -5.3   4.3   3.8  5  C
 13    587  6.0   0  C   5.5  11 144  -3.9   2.5   1.6  1  C
 14    587  4.4   0  C   5.7  19 114  -1.5   2.9   2.1  3  C
 15    594  4.4   0  C   6.1   2 197  -5.5  -1.6  -0.2  2  C
 16    572  4.6   0  C   6.2 -17 196  -5.1  -0.8  -2.0  2  C
 17    568  4.7   0  C
 18
 19
 20    531  4.1   0  C   5.3 -15 171  -4.9   1.3  -0.7  1  C
 21    531  4.1   0  C   5.5  -7 169  -4.8   1.1  -0.0  2  C
 22    537  4.1   0  C   5.6  -5 148  -4.2   2.4   1.1  2  C
 23    525  4.5   0  C   5.9  -9 149  -4.3   2.6   0.9  3  C
 24    515  5.3   0  C   6.0 -39 123  -2.4   5.0  -0.8  2  C
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```
VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
         1000  SC MAGN LAT LON                    SC
                                                    72
                MAR. 13, 1982

343 26.1   0  C  10.6 -39 358   2.5   1.1  -1.8 10  C
352 19.4   0  C  12.7 -52 300   3.9  -0.5 -11.9  1  C

394 20.2   0  C  13.1 -35  12  10.5   5.4  -5.7  1  C
394 20.2   0  C  12.4 -40 334   7.4  -0.4  -7.7  6  C
372 25.5   0  C   9.7   2 270   0.0  -8.7  -3.1  2  C
369 24.5   0  C   9.0  -2 254  -2.4  -7.7  -2.8  3  C
370 21.1   0  C   8.4  22 240  -3.8  -7.2   1.2  2  C
376 16.6   0  C   7.9   5 290   2.5  -6.8  -1.0  3  C
374 13.4   0  C   8.5  -4 311   5.5  -6.1  -2.0  1  C


373  8.5   0  C   7.8   0 340   7.3  -2.6  -0.6  0  C
373  8.5   0  C   8.1  -5 330   7.0  -3.7  -1.7  1  C
381  8.3   0  C   8.0   0 333   7.1  -3.4  -1.0  1  C
373  6.4   0  C   8.3   1 336   7.6  -3.2  -0.9  1  C
375  5.1   0  C   8.3   2 334   7.4  -3.5  -1.1  1  C
387  5.5   0  C   8.3   3 334   7.4  -3.5  -1.2  0  C
355  7.8   0  C   7.8   3 335   7.0  -3.2  -1.2  1  C
354  7.7   0  C   7.5   6 330   6.4  -3.6  -1.2  0  C
351 10.8   0  C   7.5  11 330   6.3  -3.8  -0.8  1  C
355 10.7   0  C   6.5  -8 326   5.3  -2.5  -2.8  1  C
361 12.7   0  C   4.7  -2 306   2.2  -2.5  -1.8  3  C
361 13.4   0  C   5.9   3 197  -5.5  -1.5  -0.7  1  C

                                                    74
                MAR. 15, 1982

305 21.7   0  C   4.7 -48 242  -1.4  -0.3  -4.4  1  C
302 17.9   0  C   5.4 -11 232  -3.2  -2.9  -3.0  1  C
304 17.3   0  C   5.3 -34 209  -3.8  -0.4  -3.5  1  C
307 14.6   0  C   5.4 -12 217  -2.1  -1.1  -1.2  5  C
309 14.2   0  C   6.4   2 224  -4.6  -4.1  -1.5  1  C
307 15.2   0  C   5.8  -4 222  -4.2  -3.4  -1.8  1  C
300 13.3   0  C   6.0  18 237  -3.0  -4.9   0.2  2  C
296 11.5   0  C   6.3  21 242  -2.7  -5.6   0.7  0  C

296 13.7   0  C
296 13.7   0  C   6.0  15 228  -3.9  -4.5   0.6  1  C

292 11.5   0  C
292 11.5   0  C   7.3  15 255  -1.8  -6.9   0.2  1  C
293 11.4   0  C   7.1  10 246  -2.9  -6.4  -0.6  0  C
292 11.1   0  C   7.1   8 239  -3.6  -6.0  -1.1  1  C
289 11.0   0  C   7.2   5 242  -3.3  -5.9  -1.8  1  C


272 11.3   0  C
272 11.3   0  C   7.9   9 231  -4.9  -5.7  -2.2  1  C
271 11.2   0  C   8.2   9 230  -5.2  -5.8  -2.4  0  C
275 11.0   0  C   8.2   5 232  -5.0  -5.7  -3.1  1  C

                                                    76
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258 33.0   0  C   7.1  50 226  -3.1  -5.6   2.6  1  C
257 32.7   0  C   6.9  39 245  -2.3  -6.4   1.0  0  C
249 35.3   0  C   5.5  19 284   1.2  -5.3  -1.0  0  C
246 34.2   0  C   6.5  44 294   1.8  -5.7   2.0  2  C
250 39.7   0  C   4.9   9 275   0.3  -4.0  -1.1  2  C
255 42.6   0  C   4.3 -29 252  -1.1  -2.4  -3.0  1  C
254 34.5   0  C   6.8  52 266  -0.3  -5.6   3.7  1  C
260 29.8   0  C   7.7   7 233  -4.3  -5.8  -0.7  2  C
258 32.1   0  C   8.5  11 236  -4.6  -7.1  -0.1  0  C
257 36.7   0  C   7.3  -4 232  -4.5  -5.4  -1.7  1  C
260 43.3   0  C   7.0  -5 232  -4.1  -5.1  -1.6  1  C
251 54.1   0  C   8.8 -22 257  -1.9  -6.9  -4.8  2  C
241 74.1   0  C   9.2   5 252  -2.7  -8.2  -1.1  1  C
224 88.5   0  C   9.4 -14 268  -0.3  -7.0  -3.8  4  C
243 80.7   0  C  16.3  41 223  -8.2 -10.0   6.9  8  C

272 73.1   0  C  24.7  42 273   1.1 -22.9   7.9  4  C
239 86.2   0  C  22.4  51 245  -5.4 -17.2   9.4  9  C
226 88.3   0  C  17.6  57 220  -6.6 -11.3   9.2  9  C
343 29.2   0  C  30.4 -15  93  -1.7  29.1   8.1  2  C

267 88.7   0  C  19.0  -9  95  -1.3  14.7   7.0 11  C
361 43.7   0  C  28.3 -17  91  -0.7  25.9   8.2  7  C
363 37.0   0  C  30.3  -8  97  -3.5  26.5  13.5  3  C

                                                    78
                MAR. 19, 1982

562  5.1   0  C   6.6 -34 135  -3.1   4.3  -0.8  3  C
548  5.5   0  C   6.7 -27 209  -3.9  -0.7  -3.1  4  C
539  5.6   0  C   6.3 -11 194  -4.6  -0.5  -1.4  3  C
559  5.4   0  C   7.0  16 110  -1.7   3.4   3.4  4  C
542  5.0   0  C   6.7  40 125  -2.4   1.7   4.6  3  C
512  4.9   0  C   6.8  24 132  -3.8   3.1   4.0  2  C
480  4.8   0  C   6.9  -9 137  -4.7   4.4   0.5  2  C
474  4.7   0  C   6.9  -9 137  -4.8   4.5   0.2  1  C
472  4.9   0  C   7.1   8 147  -5.3   3.1   1.7  2  C
448  5.0   0  C   7.2  15 149  -5.8   3.0   2.5  1  C
445  4.2   0  C   7.1  14 154  -5.6   2.3   2.0  3  C
476  3.6   0  C   7.2  -9 142  -5.4   4.3  -0.2  2  C
486  3.4   0  C   7.1  13 158  -5.8   2.0   2.0  3  C
482  3.1   0  C   7.2  -4 144  -4.9   3.5   0.5  4  C
468  2.7   0  C   7.7  10 137  -5.1   4.3   2.6  3  C
451  2.5   0  C   8.0   8 143  -6.2   4.1   2.7  1  C
438  2.5   0  C   8.3   6 139  -6.2   4.6   2.9  1  C
414  2.7   0  C   8.4   5 142  -6.5   4.3   3.0  1  C
375  3.1   0  C   8.6  19 142  -6.4   3.1   4.8  0  C
356  3.2   0  C   7.5   0 148  -6.2   3.4   2.0  1  C
448  2.7   0  C   8.4 -21 142  -5.8   5.4   0.1  2  C
492  3.0   0  C   8.5 -24 137  -4.7   5.1   0.1  4  C
476  3.2   0  C   8.7   3 161  -7.2   1.7   1.8  4  C
489  3.3   0  C   7.9  25 153  -5.8   0.7   4.1  2  C
```

# 03/20/82 – 03/27/82

MAR. 20, 1982

79

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 494 | 3.5 | 0 | C | 8.0 | 34 | 143 | -4.9 | 0.7 | 5.5 | 2 | C |
| 2 | 481 | 3.8 | 0 | C | 7.7 | 35 | 149 | -5.0 | 0.4 | 5.0 | 2 | C |
| 3 | 478 | 3.8 | 0 | C | 7.7 | 14 | 125 | -4.1 | 4.1 | 4.4 | 2 | C |
| 4 | 473 | 3.9 | 0 | C | 7.2 | -1 | 131 | -4.5 | 4.6 | 2.2 | 2 | C |
| 5 | 477 | 4.1 | 0 | C | 7.2 | -22 | 135 | -4.4 | 5.1 | -0.5 | 2 | C |
| 6 | 489 | 4.3 | 0 | C | 7.5 | -27 | 156 | -5.3 | 3.3 | -1.9 | 2 | C |
| 7 | 475 | 4.8 | 0 | C | 7.3 | -17 | 183 | -6.0 | 0.3 | -1.8 | 3 | C |
| 8 | 465 | 5.1 | 0 | C | | | | | | | | |
| 9 | 466 | 5.1 | 0 | C | 7.0 | -3 | 186 | -5.7 | -0.5 | -0.5 | 3 | C |
| 10 | 470 | 5.1 | 0 | C | 7.4 | 6 | 133 | -4.5 | 4.5 | 1.7 | 3 | C |
| 11 | 461 | 5.1 | 0 | C | 6.9 | 40 | 140 | -3.0 | 1.7 | 3.6 | 4 | C |
| 12 | 454 | 5.1 | 0 | C | 7.1 | 2 | 167 | -6.4 | 1.4 | 0.5 | 2 | C |
| 13 | 470 | 5.1 | 0 | C | 6.9 | -21 | 146 | -4.3 | 3.2 | -1.2 | 3 | C |
| 14 | 484 | 5.1 | 0 | C | 7.3 | -54 | 132 | -2.5 | 3.9 | -4.2 | 3 | C |
| 15 | 516 | 4.1 | 145 | J | 7.7 | -44 | 158 | -4.4 | 3.0 | -3.9 | 4 | J |
| 16 | 452 | 5.0 | 0 | C | 8.1 | -27 | 169 | -7.0 | 2.5 | -3.0 | 1 | J |
| 17 | 422 | 2.8 | 51 | J | 8.9 | -11 | 151 | -7.3 | 4.4 | 0.1 | 3 | J |
| 18 | 402 | 2.2 | 34 | J | 9.6 | -23 | 165 | -8.4 | 3.6 | -2.3 | 2 | J |
| 19 | 433 | 2.6 | 50 | J | 10.2 | -20 | 154 | -8.0 | 5.0 | -1.0 | 4 | J |
| 20 | 495 | 2.6 | 141 | J | 10.6 | -24 | 134 | -6.5 | 8.0 | -0.1 | 2 | J |
| 21 | | | | | | | | | | | | |
| 22 | 456 | 3.2 | 0 | C | 11.2 | -28 | 151 | -8.3 | 6.7 | -1.6 | 3 | J |
| 23 | 577 | 5.4 | 363 | J | 6.7 | -37 | 131 | -3.1 | 4.9 | -0.9 | 4 | J |
| 24 | 603 | 6.1 | 306 | J | 4.2 | -2 | 135 | -2.7 | 2.3 | 1.4 | 2 | J |

MAR. 21, 1982

80

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 630 | 5.4 | 218 | J | 6.9 | 7 | 154 | -6.1 | 2.0 | 2.3 | 1 | J |
| 2 | 614 | 4.7 | 215 | J | 7.1 | -6 | 168 | -6.6 | 1.6 | 0.1 | 2 | J |
| 3 | 607 | 4.3 | 111 | J | 6.8 | -12 | 173 | -6.4 | 1.4 | -0.8 | 1 | J |
| 4 | 572 | 5.7 | 95 | J | 4.8 | -31 | 183 | -4.0 | 0.9 | -2.2 | 1 | J |
| 5 | 568 | 5.3 | 124 | J | 4.7 | -32 | 169 | -3.7 | 1.6 | -1.9 | 2 | J |
| 6 | 528 | 5.9 | 0 | C | 7.4 | -37 | 210 | -5.1 | -1.1 | -5.2 | 1 | J |
| 7 | 565 | 5.7 | 94 | J | 7.5 | -36 | 220 | -4.4 | -2.2 | -5.1 | 2 | J |
| 8 | 559 | 7.5 | 111 | J | 4.4 | -42 | 238 | -1.5 | -1.6 | -3.0 | 2 | J |
| 9 | 551 | 7.7 | 127 | J | 3.8 | -15 | 291 | 1.3 | -3.0 | -1.7 | 1 | J |
| 10 | 553 | 7.5 | 144 | J | 3.3 | -7 | 282 | 0.6 | -2.5 | -0.9 | 2 | J |
| 11 | 502 | 6.8 | 0 | C | 5.0 | -30 | 250 | -1.2 | -2.8 | -2.6 | 3 | J |
| 12 | 502 | 7.8 | 0 | C | 5.8 | -12 | 228 | -3.6 | -3.6 | -2.0 | 2 | C |
| 13 | 509 | 7.4 | 0 | C | 5.9 | -54 | 198 | -2.7 | 0.0 | -4.0 | 3 | C |
| 14 | 511 | 7.0 | 0 | C | 5.4 | -62 | 165 | -2.4 | 1.8 | -4.3 | 1 | C |
| 15 | 508 | 6.8 | 0 | C | 5.1 | -23 | 187 | -4.4 | 0.0 | -2.0 | 1 | C |
| 16 | 503 | 6.2 | 0 | C | 5.2 | -30 | 152 | -3.8 | 2.7 | -1.6 | 1 | C |
| 17 | 492 | 6.0 | 0 | C | 5.0 | -22 | 161 | -4.2 | 2.0 | -1.1 | 1 | C |
| 18 | 494 | 5.5 | 44 | J | 5.1 | -15 | 171 | -4.7 | 1.2 | -0.8 | 1 | J |
| 19 | 490 | 8.9 | 63 | J | 8.3 | -27 | 184 | -7.2 | 1.3 | -3.5 | 2 | J |
| 20 | 491 | 8.8 | 59 | J | 8.8 | -29 | 182 | -7.5 | 1.9 | -3.7 | 1 | J |
| 21 | 485 | 8.3 | 62 | J | 8.0 | -21 | 173 | -7.2 | 2.3 | -1.9 | 2 | J |
| 22 | 477 | 8.2 | 0 | C | 8.2 | -15 | 169 | -7.7 | 2.5 | -0.9 | 1 | C |
| 23 | 491 | 9.0 | 76 | J | 8.9 | -20 | 170 | -7.6 | 2.7 | -1.5 | 3 | J |
| 24 | 507 | 15.4 | 128 | J | 8.2 | -33 | 175 | -6.1 | 2.7 | -3.0 | 4 | J |

MAR. 22, 1982

81

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 522 | 20.0 | 0 | C | 10.2 | -23 | 230 | -5.3 | -3.3 | -6.3 | 5 | C |
| 2 | 535 | 20.5 | 0 | C | 11.6 | -2 | 238 | -4.7 | -6.2 | -4.3 | 7 | C |
| 3 | 545 | 20.1 | 0 | C | 10.7 | -83 | 111 | -0.4 | 5.5 | -7.4 | 4 | C |
| 4 | 560 | 22.0 | 0 | C | 11.1 | -83 | 356 | 1.0 | 3.6 | -7.2 | 7 | C |
| 5 | 583 | 24.4 | 0 | C | 8.2 | -40 | 352 | 6.2 | 1.4 | -5.2 | 0 | J |
| 6 | 583 | 23.3 | 0 | C | 10.0 | -34 | 352 | 7.4 | 0.9 | -5.1 | 4 | J |
| 7 | 560 | 20.4 | 121 | J | 9.3 | -17 | 29 | 7.6 | 4.8 | -1.2 | 2 | J |
| 8 | 553 | 17.6 | 101 | J | 9.2 | -12 | 78 | 1.8 | 8.8 | 0.6 | 2 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 485 | 26.3 | 23 | J | 12.2 | -21 | 64 | 4.9 | 10.7 | -1.6 | 3 | J |
| 15 | 480 | 28.6 | 27 | J | 12.4 | -18 | 63 | 5.3 | 11.0 | -0.6 | 2 | J |
| 16 | 478 | 21.2 | 29 | J | | | | | | | | |
| 17 | 457 | 18.6 | 62 | J | | | | | | | | |
| 18 | 462 | 19.6 | 30 | J | 11.3 | -31 | 65 | 4.1 | 10.3 | -1.4 | 2 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 434 | 9.2 | 0 | C | 9.1 | 12 | 44 | 5.7 | 3.7 | 4.4 | 4 | C |
| 22 | 434 | 9.2 | 0 | C | 10.0 | -1 | 49 | 6.3 | 6.0 | 4.0 | 3 | C |
| 23 | 368 | 4.4 | 249 | L | 9.7 | 16 | 35 | 7.6 | 2.9 | 5.3 | 0 | C |
| 24 | 453 | 6.5 | 27 | J | 9.7 | 18 | 36 | 7.4 | 2.8 | 5.5 | 0 | C |

MAR. 23, 1982

82

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 449 | 5.1 | 0 | C | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 425 | 5.3 | 0 | C | | | | | | | | |
| 8 | 425 | 5.3 | 0 | C | 9.4 | 12 | 87 | 0.4 | 6.5 | 3.4 | 6 | C |
| 9 | 391 | 4.1 | 0 | C | 10.3 | -26 | 103 | -2.1 | 9.7 | -2.1 | 1 | C |
| 10 | 408 | 4.7 | 0 | C | 9.3 | -35 | 130 | -4.7 | 6.7 | -3.8 | 2 | C |
| 11 | 434 | 4.7 | 0 | C | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 445 | 5.2 | 0 | C | | | | | | | | |
| 15 | 445 | 5.2 | 0 | C | 6.1 | -11 | 94 | -0.4 | 5.4 | 0.6 | 2 | C |
| 16 | 443 | 5.8 | 0 | C | 6.5 | -17 | 111 | -2.1 | 5.8 | 0.2 | 2 | C |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 431 | 9.0 | 0 | C | 8.5 | 20 | 87 | 0.5 | 4.8 | 6.8 | 1 | C |

MAR. 24, 1982

83

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 430 | 9.1 | 0 | C | 8.8 | -1 | 114 | -3.1 | 5.7 | 3.7 | 4 | C |
| 2 | 428 | 9.2 | 0 | C | | | | | | | | |
| 3 | 431 | 11.6 | 0 | C | 9.6 | 5 | 129 | -5.8 | 5.7 | 4.2 | 1 | C |
| 4 | 431 | 11.6 | 0 | C | 9.9 | 10 | 107 | -2.2 | 6.0 | 4.6 | 5 | C |
| 5 | 451 | 14.6 | 0 | C | 9.8 | 35 | 101 | -1.3 | 4.3 | 7.2 | 4 | C |
| 6 | 459 | 17.4 | 0 | C | 10.5 | 17 | 83 | 1.2 | 7.7 | 6.2 | 3 | C |
| 7 | 446 | 17.7 | 0 | C | 10.8 | 35 | 111 | -2.9 | 5.6 | 8.1 | 3 | C |
| 8 | 440 | 18.6 | 0 | C | 11.9 | 38 | 119 | -3.9 | 5.1 | 8.0 | 5 | C |
| 9 | 443 | 19.3 | 0 | C | 12.0 | 18 | 102 | -1.9 | 7.9 | 5.1 | 6 | C |
| 10 | 452 | 20.8 | 0 | C | 12.3 | 24 | 83 | 1.3 | 8.5 | 6.3 | 6 | C |
| 11 | 470 | 19.4 | 0 | C | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 565 | 8.9 | 0 | C | | | | | | | | |

MAR. 25, 1982

84

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 583 | 7.8 | 0 | C | 9.5 | -27 | 124 | -4.3 | 7.7 | 0.2 | 2 | C |
| 2 | 589 | 7.3 | 0 | C | 9.5 | -2 | 132 | -5.2 | 5.1 | 2.9 | 5 | C |
| 3 | 584 | 7.3 | 0 | C | 8.8 | 15 | 146 | -6.2 | 2.6 | 3.8 | 3 | C |
| 4 | 585 | 7.0 | 0 | C | 8.5 | 40 | 182 | -5.3 | -2.2 | 3.9 | 4 | C |
| 5 | 598 | 6.5 | 0 | C | 8.1 | 32 | 152 | -4.7 | 1.0 | 4.1 | 4 | C |
| 6 | 579 | 5.8 | 0 | C | 8.2 | 1 | 138 | -5.7 | 4.8 | 2.0 | 2 | C |
| 7 | 591 | 5.7 | 0 | C | 7.5 | 11 | 153 | -5.6 | 2.3 | 2.0 | 3 | C |
| 8 | 607 | 5.7 | 0 | C | 7.4 | 10 | 132 | -4.5 | 4.5 | 2.5 | 2 | C |
| 9 | 602 | 5.2 | 0 | C | 7.3 | 3 | 149 | -5.2 | 3.0 | 1.0 | 3 | C |
| 10 | 615 | 5.4 | 0 | C | 7.3 | -27 | 184 | -5.1 | 0.3 | -2.6 | 4 | C |
| 11 | 631 | 5.4 | 0 | C | 6.7 | 7 | 153 | -4.4 | 2.1 | 1.1 | 4 | C |
| 12 | 641 | 5.4 | 0 | C | 5.9 | 10 | 150 | -2.8 | 1.5 | 0.9 | 4 | C |
| 13 | 643 | 5.1 | 0 | C | 6.1 | -15 | 148 | -3.3 | 2.2 | -0.5 | 4 | C |
| 14 | 657 | 4.9 | 0 | C | 5.9 | 28 | 162 | -3.5 | 0.6 | 2.1 | 4 | C |
| 15 | 647 | 4.9 | 0 | C | 5.8 | 13 | 160 | -3.7 | 1.0 | 1.2 | 3 | C |
| 16 | 627 | 4.7 | 0 | C | 6.1 | 7 | 147 | -4.7 | 2.6 | 1.7 | 1 | C |
| 17 | 615 | 4.6 | 0 | C | 5.8 | -10 | 128 | -3.3 | 4.2 | 0.8 | 2 | C |
| 18 | 576 | 5.0 | 0 | C | 6.0 | 2 | 144 | -4.6 | 2.9 | 1.7 | 2 | C |
| 19 | 557 | 5.1 | 0 | C | | | | | | | | |
| 20 | 542 | 5.9 | 0 | C | 5.1 | -39 | 86 | 0.3 | 4.5 | -0.7 | 1 | C |
| 21 | 542 | 5.9 | 0 | C | 5.4 | -9 | 107 | -1.3 | 3.9 | 1.7 | 3 | C |
| 22 | 533 | 5.7 | 0 | C | 5.4 | -18 | 138 | -2.9 | 2.8 | 0.4 | 3 | C |
| 23 | 558 | 5.5 | 0 | C | 5.3 | -46 | 132 | -2.1 | 3.7 | -1.3 | 2 | C |
| 24 | 561 | 5.7 | 0 | C | 6.2 | 8 | 147 | -4.7 | 2.1 | 2.4 | 2 | C |

MAR. 26, 1982

85

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 562 | 6.3 | 0 | C | 5.8 | 32 | 104 | -0.9 | 1.8 | 4.1 | 3 | C |
| 2 | 562 | 6.5 | 0 | C | 6.0 | -17 | 59 | 2.6 | 4.4 | 1.0 | 3 | C |
| 3 | 552 | 6.6 | 0 | C | 5.7 | 5 | 77 | 0.9 | 3.3 | 2.3 | 3 | C |
| 4 | 534 | 6.6 | 0 | C | 5.7 | 10 | 126 | -2.7 | 2.9 | 2.4 | 3 | C |
| 5 | 526 | 6.0 | 0 | C | 6.2 | -5 | 128 | -3.1 | 3.8 | 1.2 | 3 | C |
| 6 | 545 | 5.0 | 0 | C | 6.3 | 16 | 82 | 0.7 | 4.4 | 3.4 | 2 | C |
| 7 | 552 | 4.8 | 0 | C | 6.6 | 12 | 69 | 2.2 | 5.0 | 3.1 | 2 | C |
| 8 | 546 | 4.8 | 0 | C | 6.1 | 9 | 98 | -0.8 | 4.9 | 2.3 | 2 | C |
| 9 | 532 | 5.3 | 0 | C | 6.2 | 5 | 116 | -1.5 | 2.9 | 1.0 | 5 | C |
| 10 | 533 | 5.6 | 0 | C | 5.5 | -12 | 186 | -4.6 | -0.2 | -1.1 | 2 | C |
| 11 | 544 | 4.9 | 0 | C | 5.6 | -32 | 79 | 0.7 | 3.8 | -1.4 | 2 | C |
| 12 | 533 | 4.8 | 0 | C | 5.0 | -5 | 148 | -4.1 | 2.6 | 0.1 | 1 | C |
| 13 | 523 | 5.2 | 0 | C | 4.2 | 7 | 172 | -4.1 | 0.5 | 0.7 | 0 | C |
| 14 | 519 | 5.4 | 0 | C | 4.8 | 23 | 133 | -2.4 | 2.1 | 2.1 | 3 | C |
| 15 | 510 | 5.4 | 0 | C | 5.3 | 52 | 143 | -2.4 | 0.6 | 4.2 | 2 | C |
| 16 | 504 | 5.4 | 0 | C | 5.0 | -19 | 153 | -3.7 | 2.2 | -0.8 | 2 | C |
| 17 | 505 | 5.6 | 0 | C | 5.0 | -33 | 148 | -3.2 | 2.7 | -1.5 | 2 | C |
| 18 | 507 | 5.7 | 0 | C | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 494 | 5.9 | 0 | C | 5.1 | 22 | 108 | -1.4 | 2.7 | 3.8 | 0 | C |
| 21 | 494 | 5.9 | 0 | C | 5.0 | 16 | 117 | -1.7 | 2.2 | 2.7 | 3 | C |
| 22 | 480 | 6.3 | 0 | C | 5.0 | -27 | 188 | -4.1 | 0.7 | -2.1 | 1 | C |
| 23 | 477 | 6.3 | 0 | C | 4.5 | 14 | 91 | -0.1 | 1.9 | 2.2 | 3 | C |
| 24 | 483 | 6.6 | 0 | C | 4.2 | 5 | 189 | -2.5 | -0.4 | -0.0 | 3 | C |

MAR. 27, 1982

86

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 456 | 6.4 | 0 | C | 4.3 | 4 | 173 | -4.0 | 0.3 | 0.5 | 1 | C |
| 2 | 454 | 6.4 | 0 | C | 4.3 | 15 | 155 | -3.5 | 0.8 | 1.7 | 2 | C |
| 3 | 454 | 6.6 | 0 | C | 4.8 | -17 | 146 | -3.4 | 2.6 | 0.0 | 2 | C |
| 4 | 452 | 6.5 | 0 | C | 4.7 | 5 | 137 | -2.7 | 2.1 | 1.5 | 3 | C |
| 5 | 457 | 6.3 | 0 | C | 4.4 | 6 | 86 | 0.3 | 3.4 | 2.0 | 1 | C |
| 6 | 463 | 6.6 | 0 | C | 5.0 | -22 | 65 | 1.6 | 3.8 | -0.2 | 2 | C |
| 7 | 458 | 6.5 | 0 | C | 4.7 | 19 | 79 | 0.7 | 3.0 | 2.3 | 2 | C |
| 8 | 452 | 6.2 | 0 | C | 4.4 | -4 | 73 | 1.1 | 3.3 | 0.7 | 2 | C |
| 9 | 446 | 6.1 | 0 | C | 4.6 | -8 | 72 | 1.1 | 3.5 | 0.3 | 2 | C |
| 10 | 440 | 6.0 | 0 | C | 4.6 | 4 | 116 | -1.8 | 3.4 | 1.1 | 2 | C |
| 11 | 437 | 5.9 | 0 | C | 4.4 | 7 | 125 | -1.2 | 1.6 | 0.6 | 3 | C |
| 12 | 442 | 5.8 | 113 | J | 4.0 | 41 | 166 | -2.9 | 0.1 | 2.6 | 0 | C |
| 13 | 450 | 6.2 | 86 | J | 4.3 | -4 | 123 | -2.0 | 3.1 | 0.5 | 2 | C |
| 14 | 436 | 5.9 | 0 | C | 5.3 | -18 | 95 | -0.4 | 4.9 | -0.3 | 1 | C |
| 15 | 423 | 5.9 | 0 | C | 5.2 | -16 | 84 | 0.5 | 4.7 | 0.1 | 2 | C |
| 16 | 419 | 5.8 | 0 | C | | | | | | | | |
| 17 | 409 | 5.6 | 0 | C | 5.5 | 14 | 88 | 0.2 | 4.3 | 3.2 | 1 | C |
| 18 | 404 | 5.5 | 0 | C | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 397 | 5.7 | 0 | C | | | | | | | | |
| 21 | 397 | 5.7 | 0 | C | 5.4 | 17 | 102 | -1.1 | 3.3 | 3.9 | 1 | C |
| 22 | 420 | 5.0 | 35 | J | 5.4 | 5 | 107 | -1.5 | 3.7 | 3.0 | 2 | C |
| 23 | 408 | 5.3 | 39 | J | 5.1 | 0 | 123 | -2.5 | 3.1 | 2.1 | 2 | C |
| 24 | 416 | 6.0 | 0 | C | 5.1 | 25 | 126 | -2.4 | 1.7 | 3.5 | 2 | C |

**ORIGINAL PAGE IS OF POOR QUALITY**

03/28/82 – 04/04/82

MAR. 28, 1982 — 87

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 6.7 | 0 | C | 5.7 | 23 | 136 | -3.5 | 1.7 | 3.6 | 2 | C |
| 2 | 425 | 8.1 | 0 | C | 6.2 | 16 | 124 | -1.0 | 2.8 | 3.2 | 3 | C |
| 3 | 425 | 8.1 | 0 | C | 6.6 | 13 | 110 | -1.4 | 2.9 | 2.8 | 5 | C |
| 4 | 413 | 8.5 | 0 | C | 6.3 | -54 | 183 | -3.6 | 2.1 | -4.5 | 1 | C |
| 5 | 412 | 8.6 | 0 | C | 5.6 | -15 | 124 | -2.6 | 4.1 | 0.4 | 2 | C |
| 6 | 405 | 9.0 | 0 | C | 5.3 | -10 | 136 | -3.1 | 3.1 | 0.4 | 2 | C |
| 7 | 400 | 8.6 | 0 | C | 5.1 | 14 | 109 | -1.5 | 3.6 | 2.3 | 1 | C |
| 8 | 394 | 8.2 | 0 | C | 5.6 | -14 | 145 | -4.1 | 3.1 | -0.4 | 2 | C |
| 9 | 383 | 7.6 | 0 | C | 5.3 | 25 | 145 | -3.7 | 2.0 | 2.7 | 1 | C |
| 10 | 391 | 6.2 | 0 | C | 5.8 | 16 | 136 | -3.9 | 3.3 | 2.3 | 1 | C |
| 11 | 387 | 5.7 | 0 | C | 5.9 | 18 | 133 | -3.5 | 3.3 | 2.4 | 2 | C |
| 12 | 381 | 6.1 | 0 | C | 5.9 | 11 | 139 | -4.3 | 3.4 | 1.8 | 1 | C |
| 13 | | | | | | | | | | | | |
| 14 | 358 | 5.2 | 0 | C | | | | | | | | |
| 15 | 358 | 5.2 | 0 | C | 5.2 | -14 | 118 | -2.3 | 4.5 | 0.1 | 1 | C |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 309 | 1.7 | 113 | L | 5.3 | -7 | 159 | -5.1 | 1.2 | -0.1 | 1 | J |
| 20 | 313 | 1.9 | 118 | L | 5.7 | -9 | 167 | -5.4 | 1.5 | -0.1 | 1 | J |
| 21 | 310 | 3.1 | 0 | C | 6.7 | -17 | 133 | -4.3 | 4.9 | 0.9 | 1 | C |
| 22 | 380 | 2.8 | 0 | C | 9.3 | 14 | 125 | -4.3 | 4.0 | 5.0 | 5 | C |
| 23 | 358 | 2.6 | 161 | L | 10.6 | 18 | 157 | -8.8 | 1.3 | 4.7 | 4 | J |
| 24 | 324 | 3.4 | 0 | C | 10.3 | -8 | 141 | -7.8 | 6.0 | 2.4 | 2 | J |

MAR. 29, 1982 — 88

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 345 | 3.7 | 0 | C | 11.0 | -4 | 133 | -7.3 | 6.9 | 3.7 | 2 | C |
| 2 | 349 | 5.0 | 0 | C | 10.1 | -21 | 135 | -6.5 | 7.4 | 0.3 | 2 | C |
| 3 | 346 | 6.8 | 0 | C | 9.8 | -15 | 135 | -6.6 | 7.1 | 1.1 | 1 | C |
| 4 | 351 | 7.8 | 0 | C | 9.1 | -23 | 141 | -6.3 | 6.1 | -0.7 | 2 | C |
| 5 | 375 | 11.5 | 0 | C | 7.5 | -59 | 322 | 2.8 | 0.4 | -6.3 | 2 | C |
| 6 | 385 | 13.3 | 0 | C | 8.0 | -72 | 292 | 0.9 | 0.5 | -7.7 | 2 | C |
| 7 | 381 | 7.0 | 37 | J | 9.2 | -56 | 151 | -4.4 | 4.6 | -6.3 | 3 | J |
| 8 | 383 | 6.9 | 37 | J | 10.1 | -44 | 134 | -5.0 | 6.9 | -5.3 | 2 | J |
| 9 | 378 | 7.5 | 25 | J | 10.8 | -43 | 138 | -5.8 | 6.7 | -5.8 | 2 | J |
| 10 | 345 | 8.7 | 0 | C | 12.4 | -12 | 167 | -11.6 | 3.1 | -1.9 | 2 | C |
| 11 | 337 | 9.9 | 0 | C | 13.4 | 2 | 174 | -13.3 | 1.3 | 0.8 | 0 | C |
| 12 | 335 | 8.0 | 22 | J | 12.7 | 20 | 183 | -11.7 | -1.5 | 4.1 | 2 | J |
| 13 | 339 | 7.3 | 17 | J | 12.6 | 25 | 183 | -11.4 | -1.8 | 5.1 | 0 | J |
| 14 | 347 | 10.6 | 0 | C | 11.0 | 47 | 187 | -7.1 | -2.7 | 7.3 | 2 | C |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 337 | 6.9 | 21 | J | 10.2 | 27 | 162 | -8.4 | 0.8 | 5.2 | 2 | J |
| 18 | 345 | 10.4 | 36 | J | 12.6 | 34 | 168 | -10.0 | -1.1 | 7.1 | 3 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 398 | 15.9 | 0 | C | | | | | | | | |
| 22 | 399 | 14.1 | 48 | J | 7.8 | -17 | 284 | 1.8 | -4.7 | -5.9 | 1 | J |
| 23 | 383 | 11.7 | 45 | J | 8.4 | 15 | 306 | 4.6 | -6.4 | -1.9 | 2 | J |
| 24 | 382 | 11.8 | 47 | J | 7.8 | 13 | 315 | 5.1 | -5.1 | -1.5 | 3 | J |

MAR. 30, 1982 — 89

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 392 | 11.0 | 45 | J | 8.3 | 0 | 290 | 2.8 | -6.5 | -4.3 | 0 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 389 | 11.0 | 0 | C | | | | | | | | |
| 8 | 382 | 9.0 | 39 | J | 7.6 | 18 | 303 | 3.4 | -5.5 | 0.5 | 4 | J |
| 9 | 385 | 12.0 | 0 | C | 7.8 | 3 | 322 | 5.4 | -4.2 | -0.6 | 4 | J |
| 10 | 374 | 9.8 | 43 | J | 7.8 | 1 | 313 | 4.8 | -5.0 | -1.0 | 3 | J |
| 11 | 383 | 12.9 | 0 | C | 7.4 | 27 | 289 | 2.0 | -6.4 | 1.9 | 1 | C |
| 12 | | | | | | | | | | | | |
| 13 | 400 | 11.2 | 40 | J | 8.3 | -39 | 282 | 1.3 | -4.9 | -6.3 | 2 | J |
| 14 | 400 | 11.9 | 43 | J | 8.5 | -18 | 274 | 0.6 | -7.1 | -4.5 | 1 | J |
| 15 | 367 | 14.0 | 0 | C | 8.5 | 25 | 323 | 6.0 | -5.4 | 2.1 | 1 | C |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 371 | 10.9 | 45 | J | 7.7 | 34 | 40 | 4.4 | 1.7 | 5.1 | 3 | J |
| 19 | 367 | 10.1 | 55 | J | 7.0 | 26 | 358 | 5.3 | -1.4 | 2.2 | 4 | J |
| 20 | 368 | 10.2 | 57 | J | 7.1 | 5 | 326 | 5.5 | -3.5 | -1.4 | 2 | J |
| 21 | 369 | 13.4 | 0 | C | 7.4 | -3 | 318 | 5.3 | -3.8 | -3.0 | 1 | C |
| 22 | 372 | 10.4 | 47 | J | 6.9 | -5 | 333 | 5.8 | -2.1 | -2.1 | 2 | J |
| 23 | 377 | 13.2 | 0 | C | 7.3 | 0 | 311 | 4.4 | -4.1 | -2.9 | 2 | C |
| 24 | 373 | 14.2 | 0 | C | 6.4 | -31 | 286 | 1.2 | -2.1 | -4.8 | 2 | C |

MAR. 31, 1982 — 90

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 14.2 | 0 | C | 6.3 | -5 | 304 | 3.1 | -3.5 | -2.9 | 3 | C |
| 2 | 386 | 10.9 | 60 | J | 5.9 | -35 | 294 | 1.6 | -1.6 | -4.2 | 3 | J |
| 3 | 387 | 11.2 | 73 | J | 6.5 | -7 | 319 | 4.6 | -3.1 | -2.6 | 2 | J |
| 4 | 400 | 10.5 | 39 | J | 7.0 | -27 | 273 | 0.3 | -3.7 | -5.1 | 3 | J |
| 5 | 386 | 13.8 | 0 | C | 7.0 | -1 | 280 | 1.2 | -6.3 | -2.9 | 1 | J |
| 6 | 385 | 10.6 | 52 | J | 6.6 | -6 | 305 | 3.0 | -3.8 | -2.0 | 4 | J |
| 7 | 391 | 10.5 | 41 | J | 6.3 | -24 | 299 | 2.3 | -3.4 | -3.4 | 3 | J |
| 8 | 401 | 11.0 | 41 | J | 6.2 | -43 | 293 | 1.6 | -2.6 | -4.7 | 3 | J |
| 9 | 387 | 10.1 | 60 | J | 6.6 | 42 | 356 | 4.9 | -1.4 | 4.2 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 391 | 11.2 | 64 | J | 7.9 | -19 | 338 | 6.8 | -2.2 | -3.0 | 2 | J |
| 13 | 395 | 11.1 | 59 | J | 7.7 | -24 | 327 | 5.3 | -2.7 | -3.5 | 3 | J |
| 14 | 397 | 9.3 | 50 | J | 8.3 | 28 | 311 | 4.7 | -6.2 | 2.3 | 2 | J |
| 15 | 406 | 9.9 | 49 | J | 7.9 | 47 | 327 | 3.6 | -3.6 | 3.7 | 5 | J |
| 16 | 407 | 10.7 | 57 | J | 6.5 | -29 | 313 | 2.5 | -1.9 | -2.8 | 5 | J |
| 17 | 387 | 12.5 | 0 | C | 8.0 | -87 | 310 | 0.1 | 1.7 | -4.5 | 6 | C |
| 18 | 416 | 13.0 | 0 | C | 9.0 | -45 | 174 | -6.2 | 3.3 | -5.4 | 1 | C |
| 19 | 358 | 8.7 | 43 | J | 6.7 | -56 | 313 | 2.1 | 0.2 | -5.0 | 4 | J |
| 20 | 361 | 7.4 | 90 | J | 7.0 | -16 | 320 | 4.7 | -2.5 | -3.5 | 3 | J |
| 21 | 371 | 7.8 | 144 | J | 6.4 | -4 | 321 | 4.7 | -3.0 | -2.4 | 2 | J |
| 22 | 392 | 6.5 | 36 | J | 7.6 | 32 | 281 | 1.1 | -6.6 | -0.2 | 3 | J |
| 23 | 364 | 4.0 | 25 | J | 7.5 | -21 | 338 | 5.9 | -0.6 | -3.4 | 3 | J |
| 24 | 363 | 5.2 | 34 | J | 7.4 | 16 | 291 | 2.2 | -5.7 | -1.7 | 4 | J |

APR. 1, 1982 — 91

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 409 | 6.9 | 48 | J | 7.0 | -5 | 272 | 0.2 | -5.4 | -4.3 | 1 | J |
| 2 | 442 | 6.6 | 55 | J | 7.4 | -2 | 215 | -4.6 | -2.6 | -1.8 | 5 | J |
| 3 | 444 | 6.3 | 85 | L | 6.3 | 2 | 179 | -6.2 | -0.0 | 0.2 | 1 | J |
| 4 | 387 | 7.7 | 0 | C | 7.4 | 57 | 287 | 1.1 | -5.8 | 3.6 | 2 | C |
| 5 | 386 | 8.0 | 0 | C | 7.7 | 38 | 285 | 1.5 | -7.0 | 1.9 | 2 | C |
| 6 | 384 | 8.0 | 0 | C | 7.6 | 62 | 298 | 1.5 | -4.8 | 4.6 | 3 | C |
| 7 | 384 | 8.3 | 0 | C | 7.8 | 0 | 35 | 4.8 | 3.2 | 1.0 | 5 | J |
| 8 | 382 | 6.6 | 43 | J | 6.7 | 61 | 356 | 2.1 | -1.2 | 3.7 | 5 | J |
| 9 | 357 | 6.1 | 73 | J | 7.0 | 3 | 331 | 5.8 | -3.2 | -0.4 | 2 | J |
| 10 | 353 | 5.6 | 75 | J | 6.9 | -19 | 339 | 6.0 | -1.8 | -2.6 | 1 | J |
| 11 | 381 | 8.2 | 0 | C | 7.4 | 11 | 323 | 5.4 | -4.3 | 0.5 | 2 | J |
| 12 | 389 | 8.0 | 0 | C | | | | | | | | |
| 13 | 444 | 11.9 | 0 | C | 8.6 | 43 | 325 | 5.1 | -4.7 | 4.9 | 1 | C |
| 14 | 444 | 11.9 | 0 | C | 17.4 | 32 | 314 | 8.9 | -10.9 | 5.4 | 6 | C |
| 15 | 501 | 6.9 | 187 | J | 17.4 | 42 | 330 | 10.9 | -9.3 | 9.1 | 3 | J |
| 16 | 504 | 6.7 | 344 | J | 16.8 | 42 | 343 | 11.4 | -6.8 | 9.0 | 5 | J |
| 17 | 492 | 8.9 | 175 | J | 16.4 | 24 | 1 | 13.8 | -2.1 | 5.8 | 6 | J |
| 18 | 493 | 11.3 | 0 | C | 15.9 | 29 | 359 | 12.8 | -3.3 | 6.5 | 5 | C |
| 19 | 533 | 8.9 | 0 | C | 14.6 | 17 | 2 | 13.4 | -1.5 | 3.8 | 4 | J |
| 20 | 531 | 9.7 | 1934 | J | 13.6 | -10 | 6 | 10.3 | 1.9 | -1.0 | 7 | J |
| 21 | 561 | 6.2 | 407 | J | 13.5 | -39 | 358 | 9.7 | 4.0 | -6.8 | 5 | J |
| 22 | 576 | 5.3 | 225 | J | 12.1 | -20 | 10 | 10.3 | 3.6 | -2.1 | 5 | J |
| 23 | 517 | 5.2 | 129 | J | 11.2 | -46 | 328 | 6.1 | 1.1 | -8.3 | 4 | J |
| 24 | 509 | 7.2 | 167 | J | 10.1 | -38 | 299 | 3.0 | -1.8 | -7.1 | 6 | J |

APR. 2, 1982 — 92

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 489 | 9.6 | 0 | C | 7.4 | -51 | 288 | 1.4 | -0.6 | -7.1 | 1 | J |
| 2 | 453 | 7.3 | 111 | J | 7.3 | -38 | 293 | 2.1 | -2.0 | -6.1 | 3 | J |
| 3 | 465 | 6.4 | 111 | J | 6.8 | -37 | 264 | -0.5 | -2.6 | -5.8 | 2 | J |
| 4 | 468 | 6.6 | 130 | J | 6.3 | -33 | 270 | -0.0 | -3.0 | -5.1 | 2 | J |
| 5 | 464 | 7.3 | 158 | J | 6.5 | -45 | 260 | -0.8 | -2.2 | -5.7 | 2 | J |
| 6 | 464 | 8.5 | 152 | J | 6.6 | 15 | 261 | -0.9 | -5.8 | -0.6 | 3 | J |
| 7 | 449 | 9.1 | 228 | J | 6.4 | -56 | 321 | 2.3 | -0.4 | -4.8 | 4 | J |
| 8 | 439 | 9.8 | 238 | J | 6.5 | -44 | 320 | 2.8 | -1.3 | -4.0 | 4 | J |
| 9 | 415 | 11.5 | 0 | C | 6.0 | -7 | 302 | 2.3 | -3.5 | -1.4 | 4 | C |
| 10 | 406 | 11.5 | 0 | C | 6.7 | 35 | 296 | 2.3 | -5.5 | 2.7 | 1 | C |
| 11 | 396 | 11.2 | 0 | C | 7.0 | 27 | 298 | 2.8 | -5.8 | 1.9 | 2 | C |
| 12 | 393 | 11.5 | 0 | C | 7.4 | 42 | 310 | 3.5 | -5.1 | 4.0 | 0 | C |
| 13 | 412 | 11.7 | 58 | J | 9.8 | -59 | 189 | -4.8 | 1.0 | -8.0 | 3 | J |
| 14 | 410 | 12.8 | 46 | J | 10.8 | -48 | 210 | -6.2 | -1.5 | -8.6 | 1 | J |
| 15 | 396 | 11.2 | 53 | J | 11.2 | -44 | 236 | -4.4 | -4.1 | -9.2 | 1 | J |
| 16 | 402 | 10.2 | 52 | J | 11.2 | -44 | 249 | -2.7 | -4.2 | -9.0 | 4 | J |
| 17 | 390 | 14.1 | 66 | J | 8.4 | -20 | 291 | 2.7 | -5.4 | -5.1 | 3 | J |
| 18 | 395 | 13.1 | 48 | J | 9.2 | -28 | 272 | 0.3 | -5.5 | -7.4 | 1 | J |
| 19 | 380 | 10.4 | 45 | J | 8.7 | -40 | 255 | -1.7 | -3.0 | -7.8 | 2 | J |
| 20 | 378 | 12.4 | 34 | J | 8.4 | -52 | 253 | -1.5 | -0.8 | -8.0 | 2 | J |
| 21 | 378 | 12.5 | 45 | J | 8.5 | -44 | 250 | -2.0 | -1.6 | -7.6 | 3 | J |
| 22 | 358 | 13.2 | 0 | C | 6.6 | -24 | 252 | -1.3 | -2.3 | -3.8 | 5 | C |
| 23 | 354 | 11.6 | 0 | C | 7.0 | -53 | 268 | -0.2 | -0.3 | -6.6 | 2 | C |
| 24 | 362 | 8.1 | 91 | J | 6.6 | -60 | 298 | 1.5 | 0.8 | -6.2 | 2 | J |

APR. 3, 1982 — 93

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 12.6 | 0 | C | 8.0 | -69 | 229 | -1.7 | 2.1 | -6.8 | 3 | C |
| 2 | 367 | 14.2 | 0 | C | 7.5 | -60 | 250 | -0.9 | 0.3 | -5.4 | 4 | C |
| 3 | 373 | 15.5 | 0 | C | 8.6 | -25 | 242 | -2.1 | -2.4 | -3.8 | 7 | C |
| 4 | 388 | 14.2 | 0 | C | 9.3 | -42 | 205 | -6.2 | 0.2 | -6.8 | 2 | J |
| 5 | 394 | 13.2 | 0 | C | 8.7 | -47 | 188 | -5.8 | 1.8 | -6.1 | 1 | J |
| 6 | 407 | 13.6 | 0 | C | 9.8 | -62 | 189 | -4.6 | 2.3 | -8.2 | 1 | C |
| 7 | 416 | 13.2 | 0 | C | 10.6 | -6 | 268 | -0.2 | -3.8 | -1.7 | 10 | C |
| 8 | 416 | 8.7 | 0 | C | 12.9 | 35 | 298 | 4.2 | -9.3 | 4.0 | 7 | C |
| 9 | 390 | 6.6 | 0 | C | 11.6 | -17 | 266 | -0.7 | -9.2 | -5.4 | 4 | J |
| 10 | 401 | 6.6 | 0 | C | 11.1 | -26 | 265 | -0.8 | -7.5 | -5.9 | 5 | J |
| 11 | 438 | 4.9 | 239 | J | 10.6 | -30 | 267 | -0.4 | -7.1 | -6.3 | 5 | J |
| 12 | 439 | 6.7 | 208 | J | 10.0 | -35 | 253 | -2.1 | -5.8 | -6.4 | 4 | J |
| 13 | 428 | 5.1 | 118 | J | 9.8 | -48 | 241 | -3.2 | -4.0 | -8.4 | 0 | J |
| 14 | 433 | 5.0 | 142 | J | 10.4 | -33 | 278 | 1.0 | -6.4 | -7.0 | 3 | C |
| 15 | 436 | 8.4 | 0 | C | 10.4 | -48 | 266 | -0.4 | -4.1 | -8.6 | 3 | C |
| 16 | 445 | 7.9 | 194 | J | 10.5 | -28 | 271 | 0.2 | -6.6 | -7.2 | 3 | C |
| 17 | 431 | 7.6 | 174 | J | 9.3 | -1 | 282 | 1.6 | -7.2 | -3.1 | 4 | C |
| 18 | 462 | 6.1 | 116 | J | 9.5 | -35 | 287 | 1.7 | -3.3 | -6.0 | 6 | C |
| 19 | 460 | 6.5 | 117 | J | 8.5 | -5 | 289 | 2.3 | -5.7 | -3.8 | 4 | J |
| 20 | 471 | 6.7 | 0 | C | 7.8 | -29 | 270 | 0.0 | -2.4 | -4.1 | 6 | C |
| 21 | 480 | 4.6 | 126 | J | 6.4 | 20 | 311 | 3.4 | -4.3 | -0.5 | 3 | C |
| 22 | 472 | 6.3 | 0 | C | 4.6 | -66 | 275 | 0.1 | 0.6 | -3.5 | 2 | C |
| 23 | 469 | 6.0 | 0 | C | 6.5 | -18 | 325 | 4.3 | -1.6 | -3.1 | 3 | C |
| 24 | 464 | 5.7 | 0 | C | 7.5 | -57 | 41 | 2.8 | 5.1 | -3.3 | 3 | C |

APR. 4, 1982 — 94

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 5.6 | 0 | C | 6.9 | -45 | 342 | 3.9 | 1.2 | -4.1 | 3 | C |
| 2 | 471 | 4.8 | 0 | C | 7.9 | -26 | 311 | 3.9 | -2.3 | -4.9 | 3 | C |
| 3 | 474 | 4.0 | 0 | C | 8.1 | -17 | 299 | 3.2 | -4.1 | -4.6 | 3 | C |
| 4 | 474 | 3.9 | 0 | C | 8.1 | -10 | 322 | 5.7 | -3.4 | -3.2 | 3 | C |
| 5 | 464 | 4.3 | 0 | C | 8.3 | -19 | 329 | 6.1 | -2.4 | -3.8 | 2 | C |
| 6 | 467 | 4.8 | 0 | C | 8.5 | 0 | 305 | 4.6 | -6.1 | -2.3 | 2 | C |
| 7 | 460 | 5.1 | 0 | C | 8.7 | -19 | 323 | 5.8 | -3.4 | -3.7 | 3 | C |
| 8 | 447 | 5.1 | 0 | C | 8.7 | 3 | 304 | 4.6 | -6.8 | -1.4 | 2 | C |
| 9 | 448 | 5.5 | 0 | C | 8.6 | -14 | 321 | 5.4 | -3.8 | -2.7 | 4 | C |
| 10 | 446 | 6.0 | 0 | C | 8.9 | 8 | 320 | 6.1 | -5.3 | 0.1 | 3 | C |
| 11 | 440 | 5.8 | 0 | C | 8.5 | -5 | 347 | 8.2 | -1.8 | -1.0 | 1 | C |
| 12 | 424 | 5.8 | 0 | C | 8.6 | 10 | 317 | 5.9 | -5.6 | 0.3 | 2 | C |
| 13 | 433 | 5.6 | 0 | C | 8.6 | -12 | 329 | 6.9 | -3.8 | -2.6 | 2 | C |
| 14 | 436 | 5.6 | 0 | C | 8.5 | -8 | 325 | 6.4 | -4.0 | -2.1 | 3 | C |
| 15 | 434 | 5.8 | 0 | C | 8.5 | 9 | 309 | 4.6 | -5.9 | -0.5 | 4 | C |
| 16 | 433 | 5.9 | 0 | C | 8.3 | -4 | 332 | 7.0 | -3.3 | -1.7 | 2 | C |
| 17 | 448 | 6.0 | 0 | C | 8.9 | -8 | 310 | 5.0 | -5.1 | -3.3 | 4 | C |
| 18 | 455 | 6.0 | 0 | C | 9.0 | -4 | 313 | 5.5 | -5.1 | -3.0 | 4 | C |
| 19 | 452 | 6.1 | 0 | C | 8.8 | 14 | 340 | 7.8 | -3.5 | 0.6 | 1 | C |
| 20 | 443 | 6.3 | 0 | C | 8.8 | 5 | 319 | 6.0 | -4.9 | -2.0 | 3 | C |
| 21 | 447 | 6.5 | 0 | C | 9.2 | 14 | 306 | 5.0 | -6.9 | -1.8 | 2 | C |
| 22 | 473 | 6.7 | 0 | C | 8.9 | 5 | 301 | 4.3 | -6.2 | -3.4 | 3 | C |
| 23 | 485 | 6.7 | 0 | C | 9.0 | 16 | 285 | 2.1 | -8.0 | -2.5 | 2 | C |
| 24 | 488 | 6.4 | 0 | C | 9.0 | 5 | 315 | 6.1 | -5.5 | -2.7 | 2 | C |

# 04/05/82 – 04/12/82

## APR. 5, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 496 | 6.2 | 0 | C | 8.9 | -16 | 334 | 7.5 | -1.8 | -4.0 | 2 | C |
| 2 | 493 | 6.1 | 0 | C | 9.0 | 1 | 320 | 6.8 | -4.9 | -2.8 | 1 | C |
| 3 | 490 | 6.2 | 0 | C | 9.1 | -21 | 11 | 7.9 | 2.9 | -2.0 | 2 | C |
| 4 | 496 | 6.3 | 0 | C | 9.4 | -20 | 352 | 8.4 | 0.3 | -3.4 | 2 | C |
| 5 | 491 | 6.3 | 0 | C | 9.3 | -26 | 358 | 7.7 | 1.2 | -3.5 | 3 | C |
| 6 | 470 | 6.1 | 0 | C | 9.2 | 2 | 337 | 8.2 | -3.3 | -1.0 | 2 | C |
| 7 | 475 | 6.0 | 0 | C | 9.1 | 20 | 314 | 5.7 | -6.5 | 1.1 | 2 | C |
| 8 | 546 | 6.4 | 0 | C | 8.8 | -22 | 347 | 7.4 | -0.8 | -3.4 | 3 | C |
| 9 | 545 | 6.2 | 0 | C | 8.7 | -11 | 319 | 5.4 | -4.3 | -2.4 | 4 | C |
| 10 | 472 | 5.5 | 0 | C | 8.5 | -12 | 337 | 6.7 | -2.4 | -2.1 | 4 | C |
| 11 | 444 | 5.5 | 0 | C | 8.4 | -5 | 339 | 7.2 | -2.6 | -1.2 | 2 | C |
| 12 | 518 | 5.8 | 0 | C | 8.4 | -16 | 10 | 7.8 | 1.8 | -2.0 | 1 | C |
| 13 | 536 | 5.6 | 0 | C | 8.3 | -13 | 4 | 7.9 | 0.9 | -1.7 | 1 | C |
| 14 | 525 | 5.4 | 0 | C | 7.9 | -2 | 9 | 7.7 | 1.2 | -0.0 | 1 | C |
| 15 | 498 | 5.5 | 0 | C | 7.9 | 5 | 360 | 7.6 | -0.2 | 0.7 | 2 | C |
| 16 | 466 | 5.2 | 0 | C | 8.0 | -2 | 341 | 6.3 | -2.0 | -0.9 | 4 | C |
| 17 | 502 | 5.0 | 0 | C | 7.7 | 15 | 342 | 6.9 | -2.8 | 0.9 | 1 | C |
| 18 | 512 | 4.9 | 0 | C | 7.5 | 41 | 337 | 4.9 | -3.8 | 3.3 | 1 | C |
| 19 | 512 | 4.8 | 0 | C | 8.2 | -28 | 357 | 7.2 | 1.5 | -3.5 | 1 | C |
| 20 | 482 | 5.2 | 0 | C | | | | | | | | |
| 21 | 482 | 5.2 | 0 | C | 9.7 | -4 | 343 | 9.0 | -2.0 | -2.1 | 2 | C |
| 22 | 474 | 5.5 | 0 | C | 9.5 | -21 | 341 | 8.3 | -0.6 | -4.4 | 1 | C |
| 23 | 491 | 4.0 | 0 | C | 9.7 | 31 | 305 | 4.0 | -7.2 | 0.3 | 5 | C |
| 24 | 477 | 4.3 | 0 | C | 9.7 | 43 | 294 | 2.8 | -8.9 | 1.8 | 2 | C |

## APR. 6, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 459 | 4.9 | 0 | C | 9.4 | 25 | 301 | 4.4 | -8.2 | -0.5 | 1 | C |
| 2 | 447 | 5.2 | 0 | C | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 543 | 4.9 | 0 | C | | | | | | | | |
| 8 | 543 | 4.9 | 0 | C | 9.1 | 5 | 330 | 7.1 | -4.2 | -0.4 | 3 | C |
| 9 | 550 | 4.4 | 0 | C | 8.6 | 10 | 322 | 6.2 | -5.1 | 0.3 | 1 | C |
| 10 | 577 | 4.2 | 0 | C | 8.3 | -5 | 345 | 7.2 | -1.8 | -1.0 | 3 | C |
| 11 | 566 | 4.2 | 0 | C | 7.9 | 0 | 312 | 5.0 | -5.4 | -1.0 | 2 | C |
| 12 | 559 | 4.3 | 0 | C | 7.8 | -6 | 317 | 5.5 | -4.8 | -1.7 | 2 | C |
| 13 | 548 | 4.1 | 0 | C | 7.9 | 0 | 316 | 5.6 | -5.2 | -1.1 | 1 | C |
| 14 | 539 | 3.8 | 0 | C | 8.0 | -13 | 307 | 4.6 | -5.5 | -3.1 | 2 | C |
| 15 | 543 | 3.6 | 0 | C | 8.2 | 21 | 298 | 3.5 | -7.0 | 0.9 | 2 | C |
| 16 | 529 | 3.4 | 0 | C | 8.0 | 20 | 302 | 3.8 | -6.5 | 0.5 | 2 | C |
| 17 | 528 | 3.0 | 0 | C | 7.8 | -11 | 312 | 5.1 | -4.7 | -3.4 | 1 | C |
| 18 | 518 | 3.1 | 0 | C | 6.8 | 25 | 296 | 2.6 | -6.1 | 0.3 | 1 | C |
| 19 | 489 | 4.4 | 0 | C | 6.4 | 25 | 286 | 1.5 | -5.8 | -0.2 | 2 | C |
| 20 | 476 | 5.1 | 0 | C | 5.8 | 13 | 302 | 2.9 | -4.7 | -1.3 | 1 | C |
| 21 | 485 | 5.1 | 0 | C | 4.8 | -11 | 333 | 3.5 | -1.1 | -1.6 | 3 | C |
| 22 | 509 | 5.1 | 0 | C | 3.6 | -4 | 345 | 3.1 | -0.6 | -0.6 | 1 | C |
| 23 | 510 | 5.1 | 0 | C | 4.6 | 8 | 317 | 3.2 | -2.8 | -1.1 | 1 | C |
| 24 | 524 | 4.1 | 0 | C | 5.0 | -8 | 335 | 4.4 | -1.3 | -1.7 | 1 | C |

## APR. 7, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 517 | 3.9 | 0 | C | 5.5 | -20 | 352 | 4.7 | 0.4 | -1.8 | 2 | C |
| 2 | 493 | 3.6 | 0 | C | 6.0 | -11 | 353 | 5.8 | -0.1 | -1.4 | 1 | C |
| 3 | 499 | 3.2 | 0 | C | 6.1 | 3 | 346 | 5.9 | -1.4 | -0.4 | 1 | C |
| 4 | 499 | 3.2 | 0 | C | 6.2 | -3 | 343 | 5.9 | -1.5 | -1.1 | 0 | C |
| 5 | 502 | 3.2 | 0 | C | 6.6 | 6 | 341 | 6.2 | -2.3 | -0.2 | 0 | C |
| 6 | 511 | 3.7 | 0 | C | 6.6 | 6 | 338 | 6.1 | -2.5 | -0.2 | 1 | C |
| 7 | 491 | 4.5 | 0 | C | 6.7 | 6 | 340 | 6.2 | -2.4 | -0.1 | 1 | C |
| 8 | 472 | 5.1 | 0 | C | 5.9 | 22 | 333 | 4.6 | -2.8 | 1.4 | 2 | C |
| 9 | 455 | 5.2 | 0 | C | 6.7 | 0 | 331 | 5.8 | -3.2 | -0.8 | 1 | C |
| 10 | 446 | 4.9 | 0 | C | 6.9 | 1 | 336 | 6.3 | -2.7 | -0.5 | 1 | C |
| 11 | 443 | 4.8 | 0 | C | 6.7 | 8 | 334 | 5.9 | -3.0 | 0.4 | 0 | C |
| 12 | 446 | 4.7 | 0 | C | 7.0 | 6 | 333 | 6.2 | -3.2 | 0.1 | 0 | C |
| 13 | 447 | 4.5 | 0 | C | 6.8 | 11 | 329 | 5.7 | -3.6 | 0.5 | 0 | C |
| 14 | 448 | 5.1 | 0 | C | 6.9 | 10 | 331 | 5.7 | -3.3 | 0.4 | 2 | C |
| 15 | 437 | 5.8 | 0 | C | 6.3 | 55 | 306 | 2.1 | -4.2 | 4.1 | 1 | C |
| 16 | 429 | 5.3 | 0 | C | 7.3 | 9 | 335 | 6.1 | -3.0 | 0.0 | 3 | C |
| 17 | 413 | 5.2 | 0 | C | 7.7 | -2 | 338 | 7.1 | -2.6 | -1.4 | 0 | C |
| 18 | 410 | 5.1 | 0 | C | 7.8 | -2 | 337 | 7.2 | -2.6 | -1.5 | 0 | C |
| 19 | 394 | 4.7 | 0 | C | 7.9 | -4 | 343 | 7.2 | -1.8 | -1.5 | 0 | C |
| 20 | 369 | 5.7 | 0 | C | | | | | | | | |
| 21 | 369 | 5.7 | 0 | C | 7.6 | 9 | 327 | 6.3 | -4.1 | -1.2 | 0 | C |
| 22 | 348 | 10.9 | 0 | C | 6.3 | 24 | 318 | 4.0 | -4.3 | -0.0 | 2 | C |
| 23 | 351 | 12.9 | 0 | C | 5.7 | 55 | 199 | -2.8 | -3.1 | 2.9 | 2 | C |
| 24 | 342 | 11.9 | 0 | C | 6.2 | 59 | 210 | -2.7 | -4.1 | 3.4 | 1 | C |

## APR. 8, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 345 | 12.2 | 0 | C | 4.8 | 53 | 189 | -2.8 | -2.4 | 2.9 | 1 | C |
| 2 | 350 | 13.1 | 0 | C | 4.8 | 63 | 193 | -1.7 | -2.1 | 2.7 | 3 | C |
| 3 | 358 | 14.7 | 0 | C | 6.2 | 50 | 199 | -3.7 | -3.4 | 3.6 | 1 | C |
| 4 | 367 | 15.6 | 0 | C | 6.7 | 46 | 171 | -4.2 | -1.4 | 4.3 | 2 | C |
| 5 | 378 | 15.2 | 0 | C | 8.0 | 47 | 193 | -4.6 | -2.9 | 4.3 | 4 | C |
| 6 | 393 | 9.8 | 0 | C | 8.7 | -21 | 301 | 3.9 | -5.1 | -5.0 | 2 | C |
| 7 | 426 | 7.7 | 0 | C | 8.5 | -9 | 301 | 4.2 | -6.3 | -3.3 | 2 | C |
| 8 | 434 | 7.6 | 0 | C | 8.1 | -15 | 319 | 5.3 | -4.0 | -3.1 | 3 | C |
| 9 | 441 | 8.0 | 0 | C | 7.9 | -11 | 5 | 7.6 | 0.9 | -1.4 | 1 | C |
| 10 | 437 | 7.8 | 0 | C | 8.0 | -12 | 360 | 7.6 | 0.3 | -1.6 | 1 | C |
| 11 | 442 | 7.5 | 0 | C | 7.9 | -18 | 358 | 7.4 | 0.2 | -2.4 | 1 | C |
| 12 | 445 | 7.6 | 0 | C | 8.2 | -20 | 11 | 7.6 | 2.0 | -2.4 | 1 | C |
| 13 | 430 | 8.3 | 0 | C | 7.5 | -14 | 317 | 4.4 | -3.8 | -2.3 | 4 | C |
| 14 | 420 | 8.4 | 0 | C | 7.7 | 5 | 260 | -1.3 | -7.1 | -1.0 | 2 | C |
| 15 | 419 | 8.6 | 0 | C | 7.3 | -12 | 297 | 2.9 | -5.1 | -2.9 | 3 | C |
| 16 | 417 | 7.4 | 0 | C | 7.1 | -6 | 351 | 7.0 | -0.8 | -1.0 | 1 | C |
| 17 | 405 | 6.6 | 0 | C | 7.0 | -6 | 353 | 6.9 | -0.5 | -0.9 | 1 | C |
| 18 | 414 | 6.6 | 0 | C | 6.9 | -5 | 329 | 5.7 | -2.9 | -2.0 | 1 | C |
| 19 | 415 | 6.6 | 0 | C | 6.5 | -11 | 352 | 6.3 | -0.2 | -1.5 | 0 | C |
| 20 | 411 | 6.6 | 0 | C | 6.2 | -16 | 309 | 3.4 | -2.8 | -3.4 | 3 | C |
| 21 | 408 | 6.8 | 0 | C | 6.6 | -19 | 329 | 4.2 | -1.2 | -2.7 | 4 | C |
| 22 | 406 | 6.5 | 0 | C | 6.2 | 32 | 227 | -1.2 | -1.7 | 0.2 | 6 | C |
| 23 | 406 | 6.5 | 0 | C | 6.1 | 30 | 207 | -4.1 | -3.2 | 1.0 | 3 | C |
| 24 | 410 | 6.5 | 0 | C | 5.8 | 0 | 267 | -0.3 | -4.3 | -2.9 | 2 | C |

## APR. 9, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 6.4 | 0 | C | 6.0 | 31 | 258 | -0.9 | -4.9 | -0.0 | 3 | C |
| 2 | 406 | 6.7 | 0 | C | 7.1 | 10 | 251 | -2.0 | -5.7 | -2.1 | 3 | C |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 389 | 6.0 | 0 | C | | | | | | | | |
| 8 | 389 | 6.0 | 0 | C | 6.0 | 14 | 287 | 1.7 | -5.6 | 0.0 | 1 | C |
| 9 | 421 | 4.5 | 33 | J | 6.3 | 13 | 273 | 0.3 | -5.5 | -0.0 | 3 | C |
| 10 | 419 | 5.9 | 43 | J | 5.3 | 22 | 275 | 0.4 | -4.9 | 0.9 | 2 | J |
| 11 | 435 | 6.6 | 44 | J | 6.1 | 22 | 264 | -0.5 | -5.4 | 1.1 | 3 | J |
| 12 | 395 | 7.7 | 0 | C | 7.4 | 11 | 283 | 1.7 | -7.1 | 0.1 | 1 | C |
| 13 | 386 | 7.8 | 0 | C | 8.0 | 33 | 273 | 0.4 | -7.4 | 2.9 | 1 | C |
| 14 | 385 | 10.3 | 0 | C | 7.6 | 16 | 277 | 0.8 | -7.0 | 0.3 | 3 | C |
| 15 | 368 | 12.1 | 0 | C | 7.5 | 14 | 277 | 0.9 | -7.4 | -0.3 | 1 | C |
| 16 | 388 | 13.1 | 25 | J | 6.7 | 5 | 264 | -0.7 | -6.4 | -1.5 | 1 | J |
| 17 | 384 | 14.4 | 24 | J | 6.9 | -5 | 272 | 0.2 | -5.8 | -2.9 | 3 | J |
| 18 | 391 | 11.4 | 15 | J | 7.8 | 31 | 254 | -1.7 | -7.1 | 0.9 | 2 | J |
| 19 | 381 | 12.1 | 24 | J | 8.9 | -2 | 277 | 1.1 | -7.5 | -4.3 | 2 | J |
| 20 | 357 | 13.3 | 0 | C | 9.8 | 15 | 285 | 2.4 | -9.0 | -2.4 | 2 | C |
| 21 | 354 | 14.7 | 0 | C | 9.7 | 30 | 292 | 3.0 | -9.0 | 0.0 | 2 | C |
| 22 | 361 | 17.3 | 0 | C | 9.7 | 39 | 279 | 1.1 | -9.2 | 0.9 | 2 | C |
| 23 | 362 | 17.9 | 0 | C | 10.5 | 38 | 275 | 0.6 | -10.3 | 0.9 | 1 | C |
| 24 | 358 | 17.9 | 0 | C | 11.1 | 37 | 279 | 1.4 | -10.8 | 0.8 | 1 | C |

## APR. 10, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 362 | 17.2 | 0 | C | 11.8 | 8 | 269 | -0.3 | -10.1 | -4.6 | 4 | C |
| 2 | 358 | 16.4 | 0 | C | 12.0 | 3 | 276 | 1.1 | -10.2 | -5.2 | 3 | C |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 344 | 19.6 | 0 | C | | | | | | | | |
| 8 | 335 | 24.1 | 14 | J | 15.7 | -6 | 290 | 5.3 | -13.7 | -5.2 | 2 | J |
| 9 | 336 | 28.4 | 15 | J | 15.7 | -6 | 288 | 4.8 | -14.1 | -4.8 | 1 | J |
| 10 | 334 | 30.1 | 14 | J | 15.7 | -28 | 304 | 7.7 | -9.7 | -9.3 | 1 | J |
| 11 | 338 | 25.1 | 15 | J | 16.7 | -26 | 308 | 9.1 | -10.1 | -9.2 | 2 | J |
| 12 | 338 | 27.5 | 0 | C | 16.1 | -48 | 314 | 7.5 | -5.3 | -13.2 | 1 | C |
| 13 | 339 | 26.6 | 0 | C | 16.0 | -54 | 298 | 4.4 | -5.4 | -14.3 | 1 | C |
| 14 | 337 | 27.7 | 14 | J | 15.0 | -62 | 291 | 2.5 | -3.3 | -14.3 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | 323 | 25.8 | 0 | C | 14.6 | -61 | 309 | 4.3 | -1.1 | -13.8 | 1 | C |
| 17 | 323 | 25.8 | 0 | C | 14.6 | -65 | 305 | 3.5 | 0.3 | -14.2 | 0 | C |
| 18 | 333 | 23.9 | 13 | J | 14.3 | -58 | 322 | 5.9 | 0.8 | -12.9 | 1 | J |
| 19 | 334 | 23.2 | 15 | J | 14.2 | -26 | 290 | 4.1 | -7.3 | -10.4 | 5 | J |
| 20 | 337 | 25.2 | 22 | J | 13.8 | -51 | 309 | 5.1 | -0.4 | -11.8 | 5 | J |
| 21 | 325 | 26.6 | 0 | C | 13.3 | -66 | 35 | 4.4 | 8.9 | -8.5 | 2 | J |
| 22 | 338 | 20.8 | 56 | J | 16.1 | -44 | 295 | 4.6 | -2.5 | -14.1 | 6 | J |
| 23 | 373 | 20.6 | 61 | J | 15.5 | 22 | 245 | -5.4 | -12.4 | -2.1 | 7 | J |
| 24 | 355 | 12.1 | 45 | J | 14.6 | -23 | 270 | -0.0 | -6.9 | -10.4 | 8 | J |

## APR. 11, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 336 | 14.4 | 34 | J | 12.6 | -52 | 306 | 4.5 | -0.0 | -11.6 | 2 | J |
| 2 | 331 | 30.5 | 59 | J | 7.3 | -37 | 293 | 1.9 | -2.0 | -5.4 | 5 | J |
| 3 | 337 | 34.6 | 53 | J | 6.8 | -43 | 293 | 1.8 | -1.7 | -5.8 | 3 | J |
| 4 | | | | | | | | | | | | |
| 5 | 331 | 44.5 | 0 | C | 10.3 | -48 | 41 | 3.6 | 4.9 | -3.7 | 7 | C |
| 6 | 339 | 33.2 | 0 | C | 12.8 | -72 | 99 | -0.5 | 6.9 | -9.2 | 5 | C |
| 7 | 344 | 28.6 | 0 | C | 13.6 | -78 | 154 | -1.9 | 3.9 | -9.6 | 8 | C |
| 8 | 355 | 26.3 | 0 | C | 10.2 | -26 | 129 | -4.4 | 6.2 | -2.0 | 7 | C |
| 9 | 352 | 22.8 | 0 | C | 12.9 | -65 | 84 | 0.6 | 7.2 | -9.3 | 4 | C |
| 10 | 361 | 21.2 | 0 | C | 12.2 | -24 | 87 | 0.5 | 9.9 | -2.2 | 6 | C |
| 11 | 368 | 21.9 | 0 | C | 11.5 | -36 | 109 | -2.6 | 8.3 | -4.2 | 4 | C |
| 12 | 376 | 21.6 | 0 | C | 11.3 | -48 | 145 | -5.7 | 5.3 | -6.7 | 4 | C |
| 13 | 398 | 15.8 | 75 | J | 10.4 | 4 | 102 | -1.9 | 8.6 | 2.4 | 5 | J |
| 14 | 399 | 15.5 | 79 | J | 10.7 | -18 | 99 | -1.5 | 9.7 | -0.8 | 4 | J |
| 15 | 397 | 19.3 | 0 | C | 10.1 | -50 | 127 | -3.4 | 6.1 | -5.2 | 5 | C |
| 16 | 380 | 18.6 | 0 | C | 10.3 | -15 | 123 | -4.9 | 8.0 | 0.1 | 3 | C |
| 17 | 376 | 18.4 | 0 | C | 10.4 | -4 | 109 | -3.1 | 8.4 | 2.7 | 3 | C |
| 18 | 373 | 14.7 | 51 | J | 9.7 | -21 | 140 | -5.9 | 5.7 | -0.6 | 5 | J |
| 19 | 380 | 16.5 | 55 | J | 9.0 | -60 | 206 | -3.8 | 1.7 | -7.3 | 3 | J |
| 20 | 383 | 15.7 | 58 | J | 8.8 | -59 | 108 | -1.0 | 5.5 | -3.2 | 6 | J |
| 21 | 380 | 20.5 | 0 | C | 9.0 | -38 | 102 | -1.2 | 7.2 | -0.9 | 4 | C |
| 22 | 368 | 19.8 | 0 | C | 9.5 | 22 | 114 | -3.3 | 4.3 | 6.6 | 3 | C |
| 23 | 371 | 18.3 | 0 | C | 9.7 | 7 | 109 | -2.6 | 5.7 | 5.0 | 5 | C |
| 24 | 395 | 13.9 | 62 | J | 9.2 | -3 | 107 | -2.3 | 6.5 | 3.8 | 5 | J |

## APR. 12, 1982

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 382 | 17.5 | 0 | C | 9.5 | -3 | 113 | -3.1 | 6.4 | 3.5 | 4 | C |
| 2 | 385 | 12.9 | 62 | J | 9.7 | 15 | 121 | -4.6 | 5.4 | 5.9 | 3 | J |
| 3 | 387 | 12.1 | 54 | J | 9.5 | 14 | 120 | -4.0 | 5.2 | 5.0 | 5 | J |
| 4 | 390 | 12.5 | 59 | J | 8.5 | -9 | 154 | -6.2 | 3.2 | 0.3 | 5 | J |
| 5 | 394 | 17.5 | 0 | C | 8.7 | -2 | 143 | -5.8 | 4.1 | 1.4 | 4 | C |
| 6 | 413 | 14.1 | 123 | J | 7.6 | -13 | 136 | -3.6 | 3.6 | 0.1 | 6 | J |
| 7 | 412 | 15.8 | 127 | L | 8.4 | 49 | 106 | -1.5 | 3.3 | 7.6 | 0 | J |
| 8 | 412 | 12.5 | 108 | J | 7.5 | -23 | 128 | -4.2 | 5.9 | -1.5 | 1 | J |
| 9 | 417 | 12.5 | 107 | J | 7.5 | 24 | 171 | -3.3 | 0.2 | 1.6 | 6 | J |
| 10 | 424 | 10.8 | 110 | J | 7.5 | -35 | 161 | -4.5 | 2.1 | -3.0 | 5 | J |
| 11 | 436 | 10.1 | 112 | J | 8.8 | -40 | 119 | -3.2 | 6.7 | -4.4 | 2 | J |
| 12 | 432 | 13.7 | 0 | C | 8.3 | -49 | 167 | -5.0 | 2.2 | -5.7 | 2 | C |
| 13 | 432 | 13.7 | 0 | C | 8.0 | -12 | 141 | -4.9 | 4.2 | -0.5 | 4 | C |
| 14 | 429 | 13.0 | 0 | C | 8.2 | -20 | 162 | -7.2 | 2.8 | -2.1 | 1 | C |
| 15 | 409 | 18.4 | 0 | C | 8.1 | -15 | 158 | -6.9 | 3.2 | -1.2 | 2 | C |
| 16 | 417 | 11.6 | 0 | C | 8.0 | 10 | 146 | -6.3 | 3.7 | 2.6 | 1 | C |
| 17 | 409 | 11.1 | 0 | C | 7.9 | -16 | 136 | -5.1 | 5.5 | -0.1 | 2 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 409 | 8.4 | 38 | J | 8.0 | 4 | 126 | -4.0 | 4.5 | 3.1 | 4 | J |
| 21 | 410 | 8.5 | 32 | J | 7.8 | 37 | 129 | -3.5 | 1.5 | 5.9 | 3 | J |
| 22 | 427 | 10.0 | 42 | J | 6.9 | 65 | 94 | -0.2 | -0.8 | 5.9 | 3 | J |
| 23 | 394 | 11.2 | 87 | J | 6.8 | 22 | 197 | -5.1 | -2.5 | 1.0 | 4 | J |
| 24 | 395 | 14.3 | 0 | C | 6.3 | 21 | 198 | -5.5 | -2.7 | 0.9 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 395 | 9.8 | 81 | J | 7.1 | -12 | 154 | -5.3 | 2.8 | 0.3 | 4 | J |
| 2 | 389 | 9.9 | 87 | J | 7.2 | -26 | 166 | -5.3 | 2.5 | -1.6 | 4 | J |
| 3 | 404 | 12.7 | 0 | C | 6.8 | -40 | 201 | -4.1 | 0.3 | -4.0 | 4 | J |
| 4 | | | | | 6.9 | -17 | 207 | -5.1 | -1.6 | -2.7 | 3 | J |
| 5 | | | | | 8.1 | -37 | 178 | -6.2 | 2.0 | -4.3 | 2 | J |
| 6 | | | | | 7.9 | -31 | 175 | -6.7 | 1.9 | -3.6 | 1 | J |
| 7 | | | | | | | | | | | | |
| 8 | 399 | 12.2 | 58 | J | 8.7 | 37 | 141 | -5.2 | 2.8 | 5.9 | 3 | J |
| 9 | 414 | 12.4 | 37 | J | 8.4 | 23 | 133 | -4.8 | 4.4 | 4.0 | 2 | J |
| 10 | 404 | 12.2 | 40 | J | 8.6 | -2 | 134 | -5.3 | 5.4 | 0.8 | 4 | J |
| 11 | 385 | 14.8 | 0 | C | 8.6 | -5 | 118 | -4.0 | 7.4 | 0.6 | 0 | C |
| 12 | 385 | 12.4 | 42 | J | 8.6 | -11 | 129 | -5.1 | 6.4 | -0.4 | 3 | J |
| 13 | 374 | 11.8 | 28 | J | 8.5 | 8 | 145 | -6.5 | 4.2 | 2.0 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | 347 | 13.1 | 0 | C | 8.2 | -7 | 144 | -6.3 | 4.7 | 0.2 | 2 | C |
| 16 | 341 | 11.8 | 0 | C | 7.9 | -13 | 143 | -5.7 | 4.7 | -0.3 | 2 | C |
| 17 | 337 | 11.5 | 0 | C | 7.9 | -3 | 157 | -7.2 | 3.0 | 0.8 | 1 | C |
| 18 | 333 | 9.9 | 16 | J | 8.4 | 10 | 167 | -8.0 | 1.1 | 2.1 | 1 | J |
| 19 | 337 | 10.6 | 17 | J | 8.7 | 6 | 159 | -8.0 | 2.3 | 2.2 | 1 | J |
| 20 | 342 | 11.2 | 40 | J | 8.7 | 1[illegible] | 158 | -7.9 | 2.0 | 2.9 | 1 | J |
| 21 | 347 | 14.9 | 0 | C | | | | | | | | |
| 22 | 347 | 14.9 | 0 | C | 9.3 | 8 | 232 | -5.4 | -6.5 | -2.7 | 3 | J |
| 23 | 357 | 8.3 | 42 | J | 9.7 | 14 | 174 | -8.8 | -0.4 | 2.3 | 3 | J |
| 24 | 368 | 7.3 | 24 | J | 9.4 | 15 | 149 | -7.7 | 2.6 | 4.5 | 1 | J |

APR. 14, 1982 104

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 364 | 7.4 | 28 | J | 9.7 | 12 | 142 | -7.5 | 3.9 | 4.8 | 1 | J |
| 2 | 343 | 9.0 | 0 | C | 10.1 | 6 | 146 | -8.3 | 4.3 | 3.8 | 1 | C |
| 3 | 357 | 8.9 | 0 | C | 9.0 | 9 | 161 | -8.0 | 1.8 | 2.5 | 3 | J |
| 4 | 367 | 6.7 | 40 | J | 9.5 | 20 | 152 | -7.7 | 2.4 | 4.6 | 2 | J |
| 5 | 347 | 7.9 | 68 | J | 9.2 | 14 | 158 | -7.7 | 2.1 | 3.1 | 3 | J |
| 6 | 351 | 9.2 | 0 | C | 9.0 | -3 | 170 | -8.8 | 1.7 | 0.1 | 1 | C |
| 7 | 369 | 7.7 | 51 | J | 8.9 | -26 | 149 | -6.7 | 4.9 | -2.5 | 2 | J |
| 8 | 363 | 8.7 | 59 | J | 8.0 | -17 | 141 | -3.5 | 3.1 | -0.7 | 6 | J |
| 9 | 355 | 13.2 | 43 | J | 8.7 | 3 | 113 | -3.2 | 7.3 | 2.0 | 3 | J |
| 10 | 340 | 11.8 | 20 | J | 9.4 | 1 | 122 | -5.0 | 7.8 | 1.6 | 1 | J |
| 11 | 318 | 14.7 | 0 | C | 9.4 | 11 | 124 | -5.2 | 7.2 | 3.1 | 1 | C |
| 12 | 337 | 12.8 | 0 | C | 9.3 | 5 | 132 | -5.4 | 5.7 | 1.8 | 4 | C |
| 13 | 338 | 13.5 | 0 | C | 10.2 | 12 | 138 | -7.3 | 6.1 | 3.3 | 1 | C |
| 14 | 351 | 11.3 | 56 | J | 9.7 | 13 | 142 | -6.4 | 4.5 | 3.0 | 5 | J |
| 15 | 372 | 10.8 | 49 | J | 9.9 | -11 | 128 | -5.4 | 7.1 | 0.2 | 4 | J |
| 16 | 368 | 11.2 | 64 | J | 9.7 | -13 | 129 | -5.8 | 7.5 | 0.2 | 2 | J |
| 17 | 375 | 12.6 | 66 | J | 9.8 | 20 | 121 | -4.3 | 5.5 | 5.4 | 4 | J |
| 18 | 371 | 12.8 | 80 | J | 9.3 | 38 | 143 | -5.1 | 1.5 | 6.1 | 4 | J |
| 19 | 370 | 9.8 | 62 | J | 9.2 | 10 | 133 | -5.6 | 4.7 | 4.0 | 4 | J |
| 20 | 382 | 9.5 | 68 | J | 9.3 | 13 | 127 | -5.1 | 4.9 | 5.0 | 3 | J |
| 21 | 410 | 9.5 | 83 | J | 8.4 | 68 | 144 | -2.0 | -1.9 | 5.9 | 5 | J |
| 22 | 400 | 13.0 | 0 | C | 5.9 | 54 | 151 | -2.1 | -0.8 | 3.3 | 5 | J |
| 23 | 404 | 12.7 | 0 | C | 8.2 | 27 | 100 | -1.2 | 3.8 | 6.6 | 3 | J |
| 24 | 411 | 8.8 | 84 | J | 9.0 | 1 | 110 | -2.7 | 6.2 | 4.2 | 4 | J |

APR. 15, 1982 105

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 410 | 8.0 | 55 | J | 9.1 | 6 | 140 | -6.2 | 4.0 | 3.4 | 4 | J |
| 2 | 403 | 7.7 | 47 | J | 8.8 | 0 | 129 | -5.0 | 5.4 | 3.1 | 4 | J |
| 3 | 426 | 10.9 | 0 | C | 9.0 | 10 | 125 | -3.9 | 4.5 | 3.7 | 5 | C |
| 4 | 435 | 11.3 | 0 | C | 8.3 | 28 | 131 | -4.1 | 2.9 | 4.9 | 4 | C |
| 5 | 442 | 9.4 | 115 | J | 7.2 | 24 | 131 | -3.8 | 3.1 | 4.0 | 4 | J |
| 6 | 442 | 11.5 | 0 | C | 8.0 | -29 | 167 | -4.9 | 2.0 | -2.3 | 6 | J |
| 7 | 434 | 11.5 | 0 | C | 7.8 | -15 | 139 | -5.0 | 4.7 | -0.5 | 3 | J |
| 8 | 434 | 11.4 | 0 | C | 7.4 | 10 | 124 | -3.1 | 4.3 | 2.0 | 4 | C |
| 9 | 443 | 9.0 | 105 | J | 7.5 | -21 | 115 | -2.7 | 6.1 | -1.2 | 3 | J |
| 10 | 433 | 8.6 | 113 | J | 7.8 | -28 | 128 | -4.1 | 5.8 | -2.5 | 2 | J |
| 11 | 441 | 10.4 | 0 | C | 7.4 | -3 | 115 | -2.5 | 5.4 | 0.6 | 4 | C |
| 12 | 447 | 8.3 | 97 | J | 7.3 | 0 | 101 | -1.2 | 6.3 | 1.1 | 3 | J |
| 13 | 442 | 9.0 | 118 | J | 7.4 | -33 | 125 | -3.3 | 5.4 | -2.8 | 3 | J |
| 14 | 442 | 8.1 | 101 | J | 6.6 | -32 | 126 | -2.9 | 4.6 | -2.1 | 3 | J |
| 15 | 463 | 8.3 | 93 | J | 6.3 | 12 | 91 | -0.1 | 4.6 | 2.4 | 3 | J |
| 16 | 433 | 7.3 | 59 | J | 6.2 | -19 | 125 | -2.5 | 3.9 | -0.3 | 4 | J |
| 17 | 440 | 7.9 | 77 | J | 6.7 | 60 | 118 | -1.5 | 0.7 | 6.2 | 2 | J |
| 18 | | | | | | | | | | | | |
| 19 | 428 | 8.2 | 0 | C | 6.2 | 35 | 124 | -2.6 | 2.0 | 4.7 | 3 | J |
| 20 | 428 | 8.2 | 0 | C | 6.4 | -9 | 153 | -4.9 | 2.6 | 0.5 | 3 | C |
| 21 | 417 | 6.6 | 40 | J | 6.3 | -25 | 175 | -5.1 | 1.6 | -1.8 | 3 | J |
| 22 | 415 | 6.6 | 32 | J | 6.8 | -41 | 190 | -4.8 | 1.6 | -4.1 | 2 | J |
| 23 | 432 | 8.5 | 0 | C | 7.3 | 10 | 118 | -2.8 | 3.9 | 3.8 | 3 | C |
| 24 | 431 | 7.8 | 84 | J | 7.6 | 11 | 125 | -4.2 | 4.3 | 4.5 | 1 | J |

APR. 16, 1982 106

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 460 | 8.6 | 83 | J | 8.1 | 26 | 94 | -0.5 | 3.9 | 6.1 | 4 | J |
| 2 | 431 | 11.3 | 0 | C | 8.1 | 8 | 115 | -2.6 | 4.4 | 3.5 | 4 | C |
| 3 | 430 | 8.3 | 82 | J | 7.3 | -10 | 140 | -4.8 | 4.1 | 0.9 | 3 | J |
| 4 | 413 | 7.2 | 45 | J | 7.5 | -20 | 166 | -5.9 | 2.3 | -1.4 | 4 | J |
| 5 | 431 | 9.1 | 0 | C | 7.1 | -33 | 152 | -4.2 | 3.3 | -2.0 | 4 | C |
| 6 | 430 | 8.9 | 0 | C | 6.9 | 42 | 156 | -3.1 | 0.3 | 3.3 | 5 | C |
| 7 | 413 | 8.7 | 0 | C | 6.5 | 4 | 163 | -5.6 | 1.5 | 0.8 | 3 | C |
| 8 | 437 | 7.9 | 64 | J | 6.7 | 7 | 116 | -2.0 | 3.9 | 1.5 | 5 | J |
| 9 | 433 | 8.5 | 0 | C | | | | | | | | |
| 10 | 433 | 8.5 | 0 | C | 6.4 | 68 | 153 | -1.8 | 0.0 | 5.0 | 3 | C |
| 11 | 424 | 7.6 | 0 | C | 6.6 | 17 | 196 | -6.0 | -2.0 | 1.6 | 1 | C |
| 12 | 420 | 7.4 | 0 | C | | | | | | | | |
| 13 | 421 | 6.9 | 0 | C | 7.0 | 34 | 166 | -5.5 | 0.7 | 4.1 | 0 | C |
| 14 | 421 | 6.9 | 0 | C | 7.2 | 54 | 162 | -3.7 | 0.0 | 5.6 | 2 | C |
| 15 | 408 | 6.8 | 0 | C | 7.2 | 24 | 174 | -6.1 | -0.1 | 2.8 | 2 | C |
| 16 | 403 | 7.0 | 0 | C | 7.3 | 6 | 154 | -6.4 | 2.7 | 1.7 | 1 | C |
| 17 | 396 | 7.1 | 0 | C | 7.2 | -4 | 155 | -6.4 | 2.9 | 0.6 | 1 | C |
| 18 | 440 | 14.0 | 0 | C | 11.1 | -26 | 126 | -5.4 | 8.7 | -1.0 | 4 | C |
| 19 | 495 | 18.7 | 0 | C | 11.3 | 32 | 99 | -1.4 | 5.1 | 8.5 | 4 | C |
| 20 | 480 | 18.7 | 0 | C | 10.5 | -13 | 141 | -7.7 | 6.6 | 1.1 | 2 | C |
| 21 | 474 | 17.6 | 0 | C | 13.0 | 0 | 102 | -2.5 | 10.0 | 6.1 | 5 | C |
| 22 | 453 | 17.4 | 0 | C | 14.5 | 13 | 104 | -3.3 | 9.4 | 9.8 | 2 | C |
| 23 | 492 | 18.9 | 0 | C | 16.5 | 61 | 73 | 2.2 | -1.2 | 15.4 | 4 | C |
| 24 | 502 | 19.6 | 0 | C | 17.1 | 45 | 89 | 0.1 | 3.6 | 15.8 | 5 | C |

APR. 17, 1982 107

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 507 | 25.3 | 0 | C | 15.7 | 19 | 93 | -0.7 | 9.7 | 11.8 | 2 | C |
| 2 | 514 | 23.1 | 0 | C | 13.1 | 22 | 70 | 4.0 | 7.0 | 9.3 | 3 | C |
| 3 | 480 | 14.3 | 0 | C | 15.5 | 42 | 319 | 5.2 | -6.7 | 3.4 | 12 | C |
| 4 | 472 | 9.7 | 0 | C | 15.4 | 34 | 31 | 9.6 | 2.1 | 9.1 | 7 | C |
| 5 | 463 | 8.1 | 0 | C | 14.8 | 18 | 48 | 9.4 | 7.9 | 8.0 | 2 | C |
| 6 | 470 | 9.0 | 0 | C | 14.1 | 19 | 53 | 8.0 | 8.5 | 7.7 | 2 | C |
| 7 | 425 | 11.8 | 0 | C | 14.1 | -39 | 106 | -2.4 | 10.4 | -4.6 | 8 | C |
| 8 | 426 | 15.3 | 0 | C | 13.7 | -61 | 125 | -3.5 | 7.4 | -9.5 | 4 | C |
| 9 | 421 | 17.4 | 0 | C | 12.5 | -59 | 150 | -5.5 | 5.2 | -9.9 | 1 | C |
| 10 | 415 | 13.6 | 0 | C | 11.9 | -62 | 138 | -4.1 | 5.5 | -9.5 | 2 | C |
| 11 | 407 | 11.2 | 0 | C | 11.2 | -63 | 149 | -4.3 | 4.2 | -9.3 | 1 | C |
| 12 | 398 | 9.4 | 0 | C | 10.9 | -58 | 142 | -4.5 | 5.1 | -8.5 | 1 | C |
| 13 | 406 | 9.0 | 0 | C | 11.2 | -60 | 127 | -3.3 | 6.1 | -8.6 | 2 | C |
| 14 | 412 | 6.7 | 0 | C | 11.6 | -44 | 103 | -1.8 | 9.6 | -6.0 | 1 | C |
| 15 | 425 | 9.0 | 0 | C | 7.8 | -46 | 124 | -3.0 | 5.8 | -4.3 | 2 | C |
| 16 | 452 | 11.7 | 0 | C | 9.2 | -19 | 107 | -2.3 | 7.9 | -0.3 | 4 | C |
| 17 | 454 | 12.0 | 0 | C | 8.8 | 32 | 82 | 0.9 | 4.4 | 5.8 | 4 | C |
| 18 | 440 | 10.0 | 0 | C | 9.5 | -6 | 93 | -0.5 | 8.9 | 2.8 | 2 | C |
| 19 | 424 | 7.6 | 0 | C | 11.2 | 1 | 92 | -0.4 | 9.6 | 5.1 | 3 | C |
| 20 | 436 | 6.4 | 0 | C | 11.6 | 14 | 88 | 0.4 | 8.4 | 7.8 | 1 | C |
| 21 | 434 | 7.4 | 0 | C | 10.4 | 19 | 94 | -0.6 | 6.5 | 7.8 | 2 | C |
| 22 | 436 | 9.3 | 0 | C | 8.8 | 22 | 110 | -2.5 | 4.4 | 6.4 | 3 | C |
| 23 | 444 | 8.4 | 0 | C | 8.5 | -1 | 103 | -1.3 | 4.6 | 2.9 | 6 | C |
| 24 | 436 | 7.5 | 0 | C | 9.0 | 13 | 124 | -4.1 | 4.3 | 4.7 | 4 | C |

APR. 18, 1982 108

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 450 | 7.1 | 0 | C | 8.7 | 35 | 100 | -1.1 | 3.0 | 6.9 | 3 | C |
| 2 | 458 | 6.7 | 0 | C | 8.7 | 33 | 107 | -2.0 | 3.5 | 6.9 | 2 | C |
| 3 | 469 | 6.5 | 0 | C | 8.7 | 48 | 103 | -1.3 | 2.0 | 7.6 | 2 | C |
| 4 | 477 | 6.3 | 0 | C | 9.0 | 33 | 95 | -0.6 | 4.6 | 7.2 | 2 | C |
| 5 | 468 | 6.7 | 0 | C | 9.1 | 33 | 110 | -2.3 | 4.4 | 6.5 | 3 | C |
| 6 | 470 | 7.1 | 0 | C | 9.3 | 6 | 122 | -3.6 | 5.3 | 2.6 | 5 | C |
| 7 | 482 | 6.6 | 0 | C | 8.4 | 19 | 111 | -2.3 | 5.2 | 3.7 | 4 | C |
| 8 | 480 | 6.4 | 0 | C | 7.9 | 15 | 134 | -4.6 | 4.2 | 2.8 | 4 | C |
| 9 | 499 | 6.0 | 0 | C | | | | | | | | |
| 10 | 499 | 6.0 | 0 | C | 8.6 | 42 | 109 | -2.0 | 4.8 | 6.4 | 2 | C |
| 11 | 496 | 5.9 | 0 | C | 8.5 | 47 | 107 | -1.6 | 4.1 | 6.4 | 3 | C |
| 12 | 508 | 5.8 | 0 | C | 8.7 | -13 | 128 | -4.9 | 6.4 | -0.8 | 1 | C |
| 13 | 477 | 5.8 | 0 | C | 8.3 | -13 | 161 | -7.1 | 2.7 | -1.3 | 3 | C |
| 14 | 503 | 5.7 | 0 | C | 7.7 | 11 | 165 | -4.9 | 1.1 | 1.2 | 6 | C |
| 15 | 496 | 5.9 | 0 | C | 7.7 | 1 | 137 | -4.3 | 3.9 | 1.1 | 4 | C |
| 16 | 490 | 5.3 | 0 | C | 7.5 | -14 | 164 | -6.8 | 2.4 | -1.1 | 1 | C |
| 17 | 517 | 5.1 | 0 | C | 7.7 | -40 | 158 | -5.2 | 3.5 | -3.6 | 2 | C |
| 18 | 490 | 4.8 | 0 | C | 7.4 | -34 | 164 | -5.9 | 3.2 | -3.0 | 0 | C |
| 19 | 497 | 5.4 | 0 | C | 7.9 | -18 | 155 | -6.5 | 3.8 | -0.7 | 2 | C |
| 20 | 510 | 5.1 | 0 | C | 8.1 | -39 | 160 | -5.8 | 4.3 | -3.3 | 1 | C |
| 21 | 518 | 5.0 | 0 | C | 7.8 | -34 | 166 | -6.0 | 3.4 | -2.8 | 2 | C |
| 22 | 515 | 5.0 | 0 | C | 7.8 | -28 | 174 | -6.3 | 2.3 | -2.5 | 3 | C |
| 23 | 491 | 4.9 | 0 | C | 7.7 | 4 | 191 | -7.3 | -1.5 | -0.3 | 2 | C |
| 24 | 476 | 4.8 | 0 | C | 7.7 | 5 | 162 | -7.0 | 1.5 | 1.8 | 2 | C |

APR. 19, 1982 109

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 484 | 4.8 | 0 | C | 7.7 | 17 | 148 | -6.1 | 2.1 | 3.7 | 1 | C |
| 2 | 478 | 4.8 | 0 | C | 7.6 | 5 | 151 | -6.4 | 2.8 | 2.3 | 2 | C |
| 3 | 478 | 4.9 | 0 | C | 7.8 | 6 | 150 | -6.2 | 2.9 | 2.3 | 2 | C |
| 4 | 471 | 5.1 | 0 | C | 8.2 | 7 | 145 | -6.3 | 3.6 | 2.7 | 2 | C |
| 5 | 475 | 5.3 | 0 | C | 8.4 | 15 | 159 | -6.2 | 1.6 | 2.6 | 4 | C |
| 6 | 466 | 5.6 | 0 | C | 8.8 | 9 | 139 | -6.0 | 4.6 | 2.9 | 3 | C |
| 7 | 456 | 5.7 | 0 | C | 9.2 | 3 | 145 | -7.3 | 4.8 | 1.8 | 2 | C |
| 8 | 467 | 6.4 | 0 | C | 8.9 | 46 | 180 | -5.7 | -1.3 | 5.8 | 3 | C |
| 9 | 465 | 6.5 | 0 | C | 8.8 | 38 | 157 | -5.9 | 1.4 | 5.4 | 3 | C |
| 10 | 446 | 6.2 | 0 | C | 8.7 | 13 | 137 | -6.1 | 5.2 | 2.8 | 2 | C |
| 11 | 441 | 6.1 | 0 | C | 9.2 | 18 | 153 | -7.5 | 3.4 | 3.4 | 2 | C |
| 12 | 433 | 6.6 | 0 | C | | | | | | | | |
| 13 | 433 | 6.6 | 0 | C | 10.1 | -2 | 138 | -7.3 | 6.6 | 0.9 | 2 | C |
| 14 | 438 | 6.8 | 0 | C | 10.6 | -14 | 147 | -8.2 | 5.8 | -1.3 | 2 | C |
| 15 | 443 | 6.9 | 0 | C | 10.1 | -25 | 142 | -6.5 | 5.8 | -2.4 | 4 | C |
| 16 | 454 | 6.6 | 0 | C | 10.4 | -34 | 161 | -7.9 | 4.3 | -4.6 | 2 | C |
| 17 | 456 | 6.4 | 0 | C | 10.5 | -32 | 155 | -7.7 | 5.3 | -3.7 | 3 | C |
| 18 | 455 | 6.1 | 0 | C | 10.0 | -47 | 141 | -5.3 | 6.9 | -5.0 | 0 | C |
| 19 | 493 | 7.1 | 0 | C | | | | | | | | |
| 20 | 493 | 7.1 | 0 | C | 10.2 | 23 | 143 | -5.6 | 2.2 | 4.6 | 6 | C |
| 21 | 490 | 7.1 | 0 | C | 10.1 | -6 | 133 | -6.4 | 6.5 | 2.6 | 3 | C |
| 22 | 511 | 5.9 | 0 | C | 10.7 | -22 | 137 | -6.8 | 7.3 | 0.2 | 3 | C |
| 23 | 540 | 6.1 | 0 | C | 10.4 | -8 | 131 | -4.7 | 5.2 | 2.0 | 7 | C |
| 24 | 516 | 5.6 | 0 | C | 10.2 | -43 | 159 | -6.5 | 5.5 | -4.2 | 3 | C |

APR. 20, 1982 110

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 544 | 5.9 | 0 | C | 10.2 | -15 | 132 | -5.7 | 6.6 | 1.3 | 4 | C |
| 2 | 544 | 5.9 | 0 | C | 10.5 | -15 | 110 | -3.0 | 8.2 | 1.9 | 4 | C |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 527 | 6.5 | 0 | C | | | | | | | | |
| 8 | 527 | 6.5 | 0 | C | 10.5 | -45 | 114 | -2.9 | 8.0 | -5.5 | 1 | C |
| 9 | 556 | 6.9 | 0 | C | | | | | | | | |
| 10 | 556 | 6.9 | 0 | C | 10.3 | 43 | 163 | -6.1 | 0.9 | 6.2 | 5 | C |
| 11 | 557 | 6.7 | 0 | C | 10.3 | 23 | 122 | -4.2 | 6.2 | 4.4 | 5 | C |
| 12 | 543 | 6.7 | 0 | C | 9.8 | 15 | 150 | -5.6 | 2.9 | 2.3 | 6 | C |
| 13 | 535 | 6.5 | 0 | C | 9.7 | -9 | 126 | -4.9 | 6.9 | -0.1 | 4 | C |
| 14 | 541 | 6.1 | 0 | C | 9.6 | 14 | 133 | -5.6 | 5.5 | 3.3 | 4 | C |
| 15 | 557 | 5.8 | 0 | C | 9.6 | 26 | 154 | -6.8 | 2.3 | 4.4 | 3 | C |
| 16 | 558 | 5.5 | 0 | C | 9.5 | 10 | 150 | -6.4 | 3.2 | 2.4 | 5 | C |
| 17 | 550 | 5.8 | 0 | C | 9.8 | 5 | 128 | -4.9 | 5.6 | 2.8 | 5 | C |
| 18 | 551 | 5.9 | 0 | C | 9.5 | -8 | 118 | -4.2 | 7.8 | 1.9 | 2 | C |
| 19 | 530 | 5.9 | 0 | C | 9.3 | 3 | 143 | -6.5 | 4.2 | 2.6 | 4 | C |
| 20 | 548 | 6.3 | 0 | C | 10.6 | 36 | 176 | -8.3 | -2.4 | 5.5 | 2 | C |
| 21 | 546 | 7.6 | 0 | C | 9.9 | 32 | 185 | -8.0 | -3.1 | 4.0 | 3 | C |
| 22 | 564 | 10.3 | 0 | C | 8.7 | 42 | 213 | -5.3 | -5.8 | 3.0 | 2 | C |
| 23 | 563 | 10.2 | 0 | C | 9.0 | -14 | 125 | -3.8 | 5.4 | 1.5 | 6 | C |
| 24 | 568 | 10.7 | 0 | C | 7.5 | -50 | 178 | -4.1 | 2.7 | -4.1 | 3 | C |

# 04/21/82 – 04/28/82

APR. 21, 1982 111 — APR. 22, 1982 112

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 561 | 10.0 | 0 | C | 6.9 | -29 | 141 | -2.8 | 3.0 | -0.6 | 5 | C | 660 | 5.3 | 0 | C | 6.2 | -24 | 172 | -3.7 | 1.2 | -1.1 | 4 | C |
| 2 | 542 | 7.1 | 0 | C | 8.4 | 18 | 146 | -6.1 | 2.4 | 4.0 | 3 | C | 665 | 5.4 | 0 | C | 6.7 | -26 | 199 | -4.3 | -0.2 | -2.7 | 4 | C |
| 3 | 564 | 5.1 | 0 | C | 8.5 | 16 | 128 | -4.9 | 4.6 | 4.9 | 1 | C | 656 | 5.8 | 0 | C | 7.4 | -21 | 188 | -4.6 | 0.2 | -2.0 | 5 | C |
| 4 | 562 | 5.9 | 0 | C | 8.6 | 0 | 127 | -4.7 | 5.7 | 2.5 | 3 | C | 634 | 6.4 | 0 | C | 7.2 | -44 | 69 | 1.3 | 4.5 | -1.9 | 5 | C |
| 5 | 567 | 6.2 | 0 | C | 8.9 | 13 | 118 | -3.3 | 5.2 | 3.7 | 5 | C | 623 | 5.2 | 148 | J | 6.8 | 28 | 193 | -5.8 | -2.4 | 2.5 | 1 | J |
| 6 | 570 | 5.6 | 0 | C | 7.7 | 5 | 144 | -5.1 | 3.3 | 1.7 | 4 | C | 630 | 4.3 | 131 | J | 7.1 | 18 | 183 | -6.5 | -1.0 | 1.9 | 2 | J |
| 7 | 585 | 5.6 | 0 | C | 7.0 | -21 | 123 | -3.5 | 5.7 | -1.0 | 2 | C | 678 | 4.7 | 199 | J | 8.2 | 25 | 143 | -5.5 | 3.2 | 4.2 | 3 | J |
| 8 | 683 | 5.5 | 0 | C |  |  |  |  |  |  |  |  | 673 | 4.8 | 194 | J | 8.1 | 26 | 168 | -5.7 | 0.6 | 3.0 | 5 | J |
| 9 | 683 | 5.5 | 0 | C | 8.4 | 41 | 163 | -4.6 | 0.6 | 4.5 | 5 | C | 657 | 4.9 | 201 | J | 7.9 | 25 | 169 | -6.5 | 0.7 | 3.3 | 3 | J |
| 10 | 684 | 5.2 | 0 | C | 9.1 | 8 | 134 | -5.5 | 5.3 | 2.0 | 4 | C | 618 | 6.1 | 0 | C | 7.9 | 27 | 158 | -5.7 | 1.8 | 3.4 | 3 | C |
| 11 | 672 | 5.5 | 0 | C | 8.7 | -25 | 108 | -1.9 | 6.4 | -2.1 | 4 | C | 617 | 5.8 | 0 | C | 7.9 | 48 | 155 | -4.0 | 1.1 | 5.2 | 4 | C |
| 12 | 665 | 6.0 | 0 | C | 8.2 | -7 | 125 | -3.4 | 4.9 | -0.0 | 5 | C | 626 | 5.5 | 0 | C | 7.4 | 33 | 122 | -2.7 | 3.8 | 3.9 | 4 | C |
| 13 | 667 | 5.9 | 0 | C | 7.4 | -17 | 116 | -2.4 | 5.1 | -0.8 | 4 | C | 616 | 4.6 | 0 | C | 7.2 | 46 | 146 | -3.2 | 1.4 | 4.2 | 4 | C |
| 14 | 727 | 4.5 | 255 | J | 6.6 | -14 | 131 | -2.9 | 3.5 | -0.4 | 4 | C | 637 | 3.5 | 151 | J | 6.6 | 29 | 128 | -3.2 | 3.5 | 3.7 | 2 | J |
| 15 | 702 | 3.8 | 121 | J | 5.9 | -11 | 137 | -3.8 | 3.6 | -0.1 | 2 | C | 651 | 3.7 | 170 | J | 6.5 | 33 | 119 | -2.4 | 3.4 | 4.1 | 3 | J |
| 16 | 673 | 4.5 | 0 | C | 5.8 | 1 | 125 | -2.5 | 3.5 | 1.1 | 3 | C | 633 | 2.9 | 96 | J | 5.8 | 7 | 139 | -3.9 | 3.1 | 1.6 | 3 | J |
| 17 | 701 | 5.0 | 92 | J | 5.7 | -8 | 149 | -4.6 | 2.8 | 0.2 | 2 | J | 666 | 3.2 | 121 | J | 6.2 | 12 | 127 | -2.8 | 3.1 | 2.2 | 4 | J |
| 18 | 714 | 3.9 | 150 | J | 5.7 | -45 | 162 | -2.4 | 1.7 | -2.0 | 4 | J | 629 | 3.4 | 150 | J | 5.9 | 23 | 128 | -3.0 | 2.7 | 3.4 | 3 | J |
| 19 | 701 | 4.6 | 144 | J | 6.0 | -21 | 154 | -3.8 | 2.4 | -0.6 | 4 | J | 635 | 2.7 | 104 | J | 5.3 | 24 | 159 | -3.8 | 0.5 | 2.3 | 3 | J |
| 20 | 677 | 5.4 | 0 | C | 7.2 | 37 | 117 | -2.1 | 2.0 | 5.2 | 3 | C |  |  |  |  | 5.3 | 13 | 130 | -3.1 | 2.7 | 2.7 | 2 | J |
| 21 | 700 | 4.7 | 141 | J | 7.0 | 24 | 135 | -4.1 | 2.2 | 4.3 | 3 | J | 711 | 2.5 | 124 | J | 4.7 | 14 | 54 | 2.5 | 2.4 | 2.7 | 2 | J |
| 22 | 682 | 4.5 | 135 | J | 7.1 | 3 | 149 | -5.0 | 2.4 | 1.8 | 4 | J | 689 | 2.8 | 140 | J | 4.2 | 18 | 56 | 2.0 | 1.9 | 2.6 | 2 | J |
| 23 | 696 | 4.7 | 148 | J | 7.0 | -13 | 144 | -3.2 | 2.5 | 0.5 | 6 | J | 655 | 3.2 | 148 | J | 4.0 | 13 | 78 | 0.6 | 2.2 | 2.2 | 2 | J |
| 24 | 647 | 5.5 | 0 | C | 6.6 | -37 | 175 | -4.1 | 1.9 | -2.4 | 3 | C | 633 | 3.2 | 102 | J | 4.7 | 29 | 123 | -2.0 | 1.5 | 3.3 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 569 | 4.8 | 0 | C | 4.2 | 12 | 28 | 3.5 | 1.2 | 1.6 | 1 | C | 530 | 5.2 | 0 | C | 5.2 | -6 | 63 | 2.2 | 4.0 | 1.7 | 1 | C |
| 2 | 561 | 4.9 | 0 | C | 4.6 | 5 | 72 | 1.1 | 2.9 | 2.0 | 2 | C | 508 | 5.4 | 0 | C | 5.0 | -18 | 91 | -0.1 | 4.0 | 0.8 | 2 | C |
| 3 | 563 | 4.4 | 0 | C | 4.8 | -2 | 137 | -3.4 | 2.9 | 1.2 | 1 | C | 516 | 5.2 | 0 | C | 5.4 | 7 | 71 | 1.6 | 3.9 | 2.6 | 1 | C |
| 4 | 569 | 4.3 | 0 | C | 5.1 | 2 | 71 | 1.5 | 3.9 | 1.8 | 2 | C | 541 | 3.8 | 48 | J | 5.1 | -60 | 85 | 0.2 | 4.1 | -3.1 | 0 | J |
| 5 | 645 | 3.7 | 85 | J | 5.0 | 4 | 30 | 4.1 | 2.1 | 1.1 | 2 | J | 535 | 4.2 | 52 | J | 5.1 | -14 | 98 | -0.5 | 3.8 | 0.4 | 3 | J |
| 6 | 620 | 3.8 | 92 | J | 4.9 | -1 | 54 | 2.2 | 3.0 | 0.9 | 3 | J | 520 | 4.8 | 60 | J | 4.8 | -22 | 110 | -1.2 | 3.6 | -0.4 | 3 | J |
| 7 | 587 | 4.0 | 116 | J | 4.2 | 3 | 85 | 0.3 | 3.0 | 1.0 | 3 | J | 486 | 5.3 | 0 | C | 5.1 | 27 | 137 | -2.8 | 2.1 | 2.6 | 2 | C |
| 8 | 566 | 3.9 | 0 | C | 5.8 | -9 | 157 | -5.1 | 2.3 | -0.4 | 1 | C | 524 | 4.7 | 59 | J | 5.0 | 7 | 108 | -1.3 | 3.9 | 1.4 | 2 | J |
| 9 | 563 | 4.3 | 0 | C | 5.4 | -26 | 114 | -1.8 | 4.5 | -1.5 | 2 | C | 526 | 4.5 | 61 | J | 5.0 | 15 | 104 | -1.0 | 3.7 | 1.8 | 2 | J |
| 10 | 563 | 4.4 | 59 | J | 5.3 | -3 | 191 | -4.8 | -0.9 | -0.4 | 2 | J | 532 | 4.5 | 64 | J | 4.9 | 34 | 105 | -0.7 | 2.2 | 2.1 | 4 | J |
| 11 | 558 | 4.4 | 48 | J | 5.3 | 7 | 190 | -5.0 | -1.0 | 0.5 | 1 | J | 500 | 5.4 | 0 | C | 5.1 | 59 | 135 | -1.4 | 0.9 | 3.5 | 3 | C |
| 12 | 596 | 4.3 | 87 | J | 4.4 | 43 | 118 | -0.9 | 1.5 | 2.1 | 3 | J | 522 | 5.0 | 64 | J | 5.2 | 14 | 105 | -1.2 | 4.3 | 1.8 | 2 | J |
| 13 | 609 | 4.9 | 105 | J | 4.9 | 49 | 124 | -1.0 | 1.2 | 2.3 | 4 | J | 527 | 5.2 | 80 | J | 5.1 | 14 | 88 | 0.2 | 4.6 | 2.0 | 1 | J |
| 14 | 545 | 5.3 | 0 | C | 3.8 | 14 | 119 | -1.7 | 2.9 | 1.5 | 1 | J | 522 | 5.1 | 62 | J | 4.9 | 12 | 106 | -1.2 | 3.8 | 1.6 | 2 | J |
| 15 | 544 | 5.4 | 0 | C | 5.0 | 41 | 97 | -0.4 | 2.4 | 3.4 | 1 | C | 524 | 4.8 | 64 | J | 4.6 | -55 | 171 | -2.1 | 1.0 | -2.9 | 3 | J |
| 16 | 563 | 5.2 | 78 | J | 4.9 | 44 | 197 | -2.3 | -1.3 | 2.0 | 4 | J | 483 | 5.5 | 0 | C | 4.9 | -15 | 147 | -3.7 | 2.6 | -0.4 | 1 | C |
| 17 | 528 | 6.0 | 0 | C | 5.4 | 7 | 181 | -5.1 | -0.3 | 0.6 | 2 | J | 528 | 4.6 | 69 | J | 4.7 | -36 | 98 | -0.4 | 3.7 | -1.1 | 3 | J |
| 18 | 555 | 5.2 | 93 | J | 5.6 | 11 | 129 | -3.0 | 3.1 | 2.3 | 3 | J | 513 | 4.5 | 62 | J | 4.7 | 23 | 128 | -2.3 | 2.1 | 2.6 | 2 | J |
| 19 | 518 | 5.8 | 0 | C | 5.7 | 5 | 112 | -1.9 | 4.0 | 2.4 | 3 | J | 512 | 4.1 | 59 | J | 4.6 | 19 | 135 | -2.5 | 1.7 | 2.2 | 3 | J |
| 20 | 571 | 4.8 | 80 | J | 5.5 | -25 | 117 | -1.7 | 3.7 | 0.0 | 4 | J | 499 | 4.4 | 106 | L | 4.0 | 7 | 141 | -2.2 | 1.4 | 1.1 | 3 | J |
| 21 | 532 | 5.0 | 0 | C | 5.5 | -24 | 104 | -1.1 | 4.8 | 0.4 | 2 | C | 494 | 4.2 | 0 | C | 8.2 | -12 | 128 | -4.2 | 5.3 | 1.4 | 5 | C |
| 22 | 519 | 4.9 | 0 | C | 5.2 | -15 | 142 | -3.3 | 2.8 | 0.4 | 2 | C | 639 | 19.9 | 636 | J | 9.0 | 9 | 140 | -6.6 | 4.0 | 4.0 | 2 | J |
| 23 | 527 | 5.0 | 0 | C | 5.2 | 1 | 95 | -0.4 | 3.6 | 2.3 | 2 | C | 641 | 17.7 | 420 | J | 10.2 | 37 | 116 | -2.8 | 2.4 | 7.0 | 6 | J |
| 24 | 523 | 5.2 | 0 | C | 5.1 | -25 | 84 | 0.4 | 3.7 | 0.4 | 3 | C | 618 | 18.0 | 323 | J | 13.7 | 21 | 101 | -2.3 | 7.9 | 10.2 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 637 | 23.3 | 0 | C | 15.1 | 26 | 90 | 0.0 | 8.4 | 12.4 | 1 | J | 520 | 4.9 | 0 | C | 13.5 | 22 | 144 | -10.0 | 3.7 | 7.9 | 2 | C |
| 2 | 610 | 11.6 | 375 | J | 19.0 | -1 | 295 | 7.4 | -13.9 | -7.7 | 8 | J | 516 | 3.9 | 0 | C | 11.4 | 23 | 140 | -7.7 | 3.7 | 6.8 | 3 | J |
| 3 | 579 | 4.9 | 0 | C | 23.0 | -10 | 290 | 7.7 | -17.1 | -12.6 | 3 | C | 502 | 2.9 | 36 | J | 10.7 | 17 | 148 | -8.2 | 3.4 | 4.9 | 4 | J |
| 4 | 681 | 5.3 | 173 | J | 21.0 | -9 | 291 | 7.2 | -16.0 | -10.2 | 6 | J | 509 | 2.5 | 34 | J | 10.1 | 14 | 161 | -9.1 | 2.0 | 3.4 | 2 | J |
| 5 | 634 | 4.4 | 184 | J | 21.0 | -7 | 292 | 7.8 | -17.3 | -8.9 | 2 | C | 515 | 2.6 | 39 | J | 9.1 | 3 | 157 | -8.1 | 3.1 | 1.6 | 2 | J |
| 6 | 583 | 11.0 | 166 | J | 17.1 | -1 | 286 | 4.7 | -15.5 | -5.0 | 2 | J | 507 | 2.6 | 35 | J | 9.2 | -5 | 159 | -8.5 | 3.3 | 0.2 | 1 | J |
| 7 | 565 | 20.0 | 0 | C | 13.8 | 35 | 242 | -0.7 | -1.6 | 0.7 | 14 | C | 504 | 2.9 | 0 | C | 7.6 | -6 | 168 | -7.1 | 1.6 | -0.4 | 2 | J |
| 8 | 580 | 22.6 | 0 | C | 11.7 | -59 | 211 | -1.4 | -0.3 | -2.8 | 11 | C | 480 | 2.7 | 0 | C | 6.9 | -15 | 163 | -6.1 | 2.2 | -1.3 | 2 | J |
| 9 | 562 | 13.2 | 0 | C | 16.2 | -54 | 211 | -8.0 | -2.5 | -13.3 | 4 | C | 478 | 2.5 | 0 | C | 8.1 | -21 | 178 | -7.3 | 0.7 | -2.7 | 2 | C |
| 10 | 553 | 10.0 | 47 | J | 16.9 | -44 | 245 | -5.0 | -8.9 | -12.8 | 4 | J | 487 | 2.6 | 0 | C | 7.9 | -14 | 167 | -7.4 | 2.0 | -1.6 | 1 | C |
| 11 | 545 | 8.8 | 91 | J | 15.1 | -46 | 248 | -3.4 | -7.0 | -10.3 | 8 | J | 474 | 2.6 | 0 | C | 7.6 | -8 | 162 | -7.2 | 2.4 | -0.8 | 0 | C |
| 12 | 557 | 16.5 | 69 | J | 12.3 | -32 | 127 | -6.2 | 9.0 | -5.2 | 2 | J | 466 | 2.6 | 0 | C | 7.4 | -13 | 174 | -7.0 | 0.9 | -1.5 | 1 | C |
| 13 | 572 | 16.8 | 0 | C | 14.0 | -18 | 122 | -6.9 | 11.5 | -2.4 | 3 | C | 473 | 2.7 | 0 | C | 7.5 | 1 | 161 | -6.9 | 2.4 | 0.4 | 1 | C |
| 14 | 580 | 15.6 | 0 | C | 16.9 | 7 | 120 | -8.0 | 13.1 | 4.5 | 4 | C | 504 | 1.7 | 56 | J | 7.6 | -5 | 169 | -6.9 | 1.4 | -0.4 | 2 | J |
| 15 | 564 | 12.7 | 0 | C | 16.1 | 37 | 110 | -4.2 | 9.3 | 11.8 | 3 | C | 467 | 2.5 | 90 | L | 8.7 | -11 | 147 | -6.8 | 4.7 | -0.6 | 3 | J |
| 16 | 534 | 5.4 | 0 | C | 17.1 | 18 | 114 | -6.4 | 12.3 | 8.7 | 4 | C | 480 | 2.7 | 45 | J | 8.4 | -10 | 140 | -6.2 | 5.4 | 0.0 | 2 | J |
| 17 | 535 | 4.4 | 0 | C | 15.7 | -10 | 108 | -4.8 | 14.6 | 2.3 | 2 | C | 480 | 2.4 | 45 | J | 7.8 | -10 | 155 | -6.3 | 3.2 | -0.2 | 3 | J |
| 18 | 524 | 4.7 | 0 | C | 14.8 | -27 | 114 | -5.4 | 13.4 | -1.6 | 2 | C | 425 | 1.6 | 153 | L | 7.7 | -13 | 175 | -7.3 | 1.2 | -1.3 | 1 | J |
| 19 | 521 | 4.9 | 0 | C | 14.1 | -15 | 115 | -5.8 | 12.6 | 2.0 | 1 | C | 437 | 1.9 | 38 | J | 8.0 | -13 | 187 | -7.4 | -0.1 | -2.0 | 1 | J |
| 20 | 513 | 6.8 | 42 | J | 11.7 | 3 | 116 | -5.0 | 8.8 | 5.4 | 2 | J | 434 | 1.7 | 41 | J | 7.3 | -9 | 185 | -6.8 | -0.0 | -1.2 | 1 | J |
| 21 | 507 | 6.3 | 39 | J | 11.2 | 7 | 118 | -5.1 | 7.7 | 5.9 | 2 | J | 434 | 1.6 | 43 | J | 7.1 | -7 | 186 | -6.8 | -0.2 | -1.1 | 1 | J |
| 22 | 512 | 6.8 | 43 | J | 10.7 | 8 | 128 | -6.3 | 6.2 | 5.4 | 2 | J | 422 | 1.6 | 52 | L | 7.0 | -23 | 173 | -6.1 | 2.0 | -1.9 | 2 | J |
| 23 | 529 | 6.4 | 48 | J | 10.5 | -12 | 125 | -5.6 | 7.9 | 2.4 | 3 | J |  |  |  |  | 7.5 | -12 | 158 | -6.5 | 3.0 | 0.1 | 2 | J |
| 24 | 507 | 6.1 | 0 | C | 13.2 | 31 | 141 | -8.5 | 2.6 | 9.2 | 3 | C |  |  |  |  | 8.2 | 1 | 162 | -7.7 | 2.1 | 1.4 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  | 466 | 22.6 | 63 | J | 7.1 | 32 | 323 | 1.9 | -2.0 | 0.6 | 7 | J |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  | 448 | 11.2 | 65 | J | 9.8 | -25 | 305 | 4.9 | -4.4 | -6.8 | 3 | J |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  | 435 | 7.6 | 58 | J | 9.7 | 1 | 308 | 5.7 | -6.7 | -2.9 | 3 | J |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  | 445 | 6.7 | 39 | J | 9.5 | -12 | 300 | 4.5 | -6.5 | -4.7 | 3 | J |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  | 434 | 7.0 | 48 | J | 9.2 | -18 | 304 | 4.8 | -5.8 | -5.0 | 2 | J |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 464 | 3.6 | 43 | J | 7.4 | -24 | 143 | -5.3 | 4.5 | -1.9 | 2 | J |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 443 | 3.9 | 47 | J | 7.1 | 8 | 159 | -6.3 | 2.2 | 1.4 | 2 | J | 458 | 7.0 | 32 | J | 8.8 | 5 | 305 | 5.0 | -7.1 | -0.6 | 1 | J |
| 9 | 435 | 4.3 | 0 | C | 7.3 | 13 | 163 | -6.5 | 1.7 | 1.9 | 2 | J | 461 | 7.3 | 38 | J | 8.4 | 6 | 308 | 5.0 | -6.6 | -0.1 | 1 | C |
| 10 | 438 | 3.8 | 70 | J | 6.7 | 19 | 162 | -5.8 | 1.6 | 2.3 | 2 | J | 464 | 7.2 | 33 | J | 8.0 | -6 | 316 | 5.5 | -5.2 | -1.5 | 2 | J |
| 11 | 437 | 4.4 | 80 | L | 6.9 | 25 | 144 | -4.8 | 3.1 | 3.2 | 2 | J | 475 | 7.9 | 96 | J |  |  |  |  |  |  |  |  |
| 12 | 416 | 4.5 | 505 | L | 7.1 | -26 | 168 | -6.1 | 1.7 | -2.8 | 2 | J | 480 | 8.0 | 112 | J |  |  |  |  |  |  |  |  |
| 13 | 439 | 3.6 | 40 | J | 7.3 | 15 | 166 | -6.4 | 1.3 | 2.0 | 3 | J |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 472 | 7.6 | 0 | C | 7.4 | 23 | 141 | -5.3 | 3.7 | 3.6 | 1 | J |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 472 | 7.6 | 0 | C | 5.5 | 31 | 156 | -2.5 | 0.7 | 1.9 | 4 | C | 482 | 9.5 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 510 | 5.4 | 83 | J | 6.1 | -56 | 242 | -1.6 | -1.5 | -5.6 | 1 | J | 482 | 9.5 | 0 | C | 8.1 | 27 | 18 | 6.6 | 1.2 | 3.9 | 1 | C |
| 17 | 467 | 6.1 | 0 | C | 7.2 | -53 | 229 | -2.8 | -1.2 | -6.4 | 1 | C | 502 | 9.7 | 0 | C | 8.2 | 29 | 345 | 5.9 | -2.5 | 2.6 | 3 | C |
| 18 | 475 | 8.3 | 116 | J | 7.1 | -27 | 199 | -5.7 | -0.7 | -3.6 | 2 | J | 496 | 9.9 | 0 | C | 8.4 | 21 | 318 | 5.6 | -5.7 | 0.8 | 2 | C |
| 19 | 502 | 23.6 | 54 | J | 3.9 | 36 | 204 | -2.7 | -2.0 | 1.4 | 1 | J | 485 | 10.6 | 0 | C | 8.6 | -11 | 307 | 4.6 | -4.9 | -3.9 | 3 | C |
| 20 | 495 | 24.8 | 67 | J | 3.0 | 25 | 86 | 0.1 | 1.3 | 1.7 | 2 | J | 473 | 11.3 | 0 | C | 8.8 | 6 | 339 | 7.8 | -3.1 | -0.6 | 2 | C |
| 21 | 486 | 20.2 | 68 | J | 3.3 | 30 | 142 | -1.3 | 0.4 | 1.3 | 3 | J | 465 | 11.3 | 0 | C | 9.3 | -1 | 322 | 7.0 | -4.7 | -2.8 | 3 | C |
| 22 | 467 | 12.8 | 59 | J | 7.3 | -37 | 204 | -5.0 | 0.2 | -4.6 | 3 | J | 460 | 11.2 | 0 | C | 9.8 | 0 | 308 | 5.7 | -6.4 | -3.8 | 2 | C |
| 23 | 464 | 12.2 | 63 | J | 6.7 | -35 | 166 | -4.6 | 2.7 | -2.3 | 4 | J | 469 | 11.3 | 0 | C | 10.0 | 3 | 327 | 7.5 | -4.5 | -2.0 | 4 | C |
| 24 | 472 | 22.3 | 75 | J | 6.7 | 17 | 113 | -2.2 | 3.6 | 4.0 | 4 | J | 476 | 11.9 | 0 | C | 10.3 | 0 | 286 | 2.7 | -8.1 | -4.6 | 3 | C |

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04/29/82 – 05/06/82

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HR     VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC MAGN LAT LON                       SC

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 1     473 11.7    0  C   10.7  28 299   4.2  -8.7   0.3  3  C
 2
 3     454 11.6    0  C   10.7  -4 324   7.9  -4.9  -2.9  3  C
 4     451 12.4    0  C   10.7 -11 334   8.1  -3.0  -3.1  4  C
 5
 6     445 13.3    0  C   10.9  -1 338   8.9  -3.4  -1.2  4  C
 7     456 13.0    0  C   11.1  -1 306   5.8  -7.8  -1.9  4  C
 8     461 14.2    0  C   11.3   9 316   6.7  -6.6   0.2  5  C
 9     469 14.3    0  C   11.7  21 289   3.3 -10.0   2.4  3  C
10     463 15.5    0  C   11.3  19 306   5.6  -8.2   2.3  4  C
11
12
13     486 18.5    0  C
14     486 18.5    0  C   11.8  -2 305   5.2  -7.3  -1.5  7  C
15     481 15.2    0  C   12.3  16 294   4.6 -10.9   1.0  2  C
16     494 18.3    0  C   10.5  14 316   6.0  -6.2   0.5  6  C
17     494 17.6    0  C
18     494 17.6    0  C   11.9 -46 337   6.6   0.1  -7.7  6  C
19     513 10.4    0  C   14.3 -14 317   9.4  -6.6  -6.6  5  C
20     516  8.7    0  C   14.3 -29 324   9.2  -3.2  -8.7  5  C
21     534  8.0    0  C   13.2   1 311   8.2  -8.3  -4.4  3  C
22     555  8.9    0  C   12.2   2 315   8.0  -7.2  -3.7  3  C
23     559  6.7    0  C   11.9   1 321   8.1  -5.7  -3.2  5  C
24     559  6.7    0  C   12.7  -6 317   8.9  -6.6  -5.2  2  C

                      MAY   1, 1982                   121

 1     492  5.3    0  C    5.3 -26 307   2.7  -2.1  -3.6  2  C
 2     496  7.2    0  C    6.2 -20   8   5.2   1.5  -1.4  2  C
 3     500  7.2    0  C    6.3  35 342   4.1  -2.4   2.2  3  C
 4     507  7.6    0  C    6.4  33 318   3.7  -4.2   1.8  2  C
 5     508  9.4    0  C    7.6  12 297   3.2  -6.4  -0.6  2  C
 6     511 12.0    0  C    9.0   6 294   3.4  -7.6  -1.1  3  C
 7     495 11.0    0  C    9.0  -8 288   2.6  -7.7  -3.0  2  C
 8     489  9.8    0  C    8.8  -8 301   4.1  -6.5  -2.3  3  C
 9     495  9.3    0  C    8.3  -9 307   4.3  -5.4  -1.9  3  C
10
11     473  7.5    0  C    7.4  -2 315   5.1  -5.0  -0.8  2  C
12     485  7.5    0  C    7.2  -7 340   6.4  -2.2  -1.1  2  C
13     487  7.3    0  C    7.4 -18 303   3.7  -5.2  -2.8  2  C
14     485  7.5    0  C    7.0 -18 312   4.2  -4.3  -2.7  2  C
15     494  9.5    0  C    6.8 -39 336   3.5  -0.9  -3.3  4  C
16     483 10.3    0  C    7.2  15 359   5.2  -0.4   1.3  4  C
17     487  9.8    0  C    7.1  -8 341   3.8  -1.1  -1.0  5  C
18     483  9.7    0  C    7.8 -23   3   6.8   1.3  -2.6  2  C
19     498 10.1    0  C    7.5 -47  65   1.9   5.6  -2.7  3  C
20
21     478 10.2    0  C    7.5  11   2   6.5  -0.4   1.2  3  C
22     475 10.4    0  C    7.4   7  10   6.5   0.6   1.3  2  C
23     466  9.9    0  C    7.4  -6   9   6.5   1.2  -0.0  3  C
24     464  9.6    0  C    7.8   7 343   6.6  -2.2  -0.2  3  C

                      MAY   3, 1982                   123

 1
 2     488  9.6    0  C    9.9  -1 336   7.6  -3.0  -1.6  4  C
 3     496  9.4    0  C   10.3  -5 332   6.9  -3.1  -2.1  6  C
 4     518  9.4    0  C   10.8  39 328   5.7  -5.2   3.8  6  C
 5     517  9.8    0  C    9.1  -9 312   5.1  -5.0  -3.0  4  C
 6     529 10.2    0  C    9.7 -32 302   3.7  -4.7  -5.9  4  C
 7     533 10.6    0  C    9.7 -14 309   5.0  -5.6  -3.2  4  C
 8     551 11.3    0  C    9.7 -24 312   3.7  -3.7  -3.1  7  C
 9     553 10.2    0  C   10.2  45 280   1.1  -6.9   5.4  5  C
10     564  8.9    0  C    9.6  11  34   5.4   3.4   1.6  6  C
11
12     589  8.9    0  C
13     589  8.9    0  C    8.5 -37   4   5.3   0.9  -3.9  4  C
14     592  8.1    0  C   10.4  12  49   3.8   4.2   1.9  8  C
15     593  7.7    0  C   10.3  25 345   7.0  -2.5   2.9  5  C
16     597  7.3    0  C    9.9  -7 327   7.1  -4.2  -2.2  4  C
17     606  6.8    0  C    9.5 -43 325   5.4  -1.8  -7.1  2  C
18     633  7.0    0  C    9.4 -60 342   4.1   1.4  -7.3  3  C
19     622  5.9    0  C   10.0 -43 343   6.6   0.7  -6.7  3  C
20     601  5.1    0  C    9.5 -22 344   8.3  -0.5  -4.1  2  C
21     573  4.4    0  C   10.1 -13 353   9.4  -0.0  -2.5  2  C
22     605  5.3    0  C   10.7  47  20   6.7  -1.6   7.8  2  C
23     636  5.2    0  C    9.1  22   3   6.1  -1.0   2.3  5  C
24     699  3.9    0  C   10.6  57 340   4.6  -5.2   5.8  5  C

                      MAY   5, 1982                   125

 1     618  3.0    0  C    7.1  19  46   4.3   2.9   3.9  2  C
 2     596  2.9    0  C    6.4  12  25   4.9   1.5   2.0  3  C
 3     610  2.8    0  C    6.2   9 334   5.0  -2.6  -0.1  2  C
 4     650  3.1  145  J    6.4   3 296   2.6  -5.1  -1.6  2  J
 5     659  3.0  112  J    6.4   0 287   1.8  -5.6  -1.7  1  J
 6     640  3.6  127  J    5.5  19 353   4.4  -0.9   1.3  3  J
 7     640  4.2  100  J    5.4  35 311   2.3  -3.0   1.8  3  J
 8     602  4.4    0  C    4.9  20 279   0.5  -3.5   0.7  3  J
 9     658  3.6  145  J    5.4   4 291   1.7  -4.5  -0.2  2  J
10     644  3.8  160  J    4.8 -13 290   1.4  -3.7  -1.3  2  J
11     639  3.8  125  J    4.4 -23 320   2.2  -1.7  -1.4  3  J
12     598  4.0    0  C    3.9   8 333   2.9  -1.5   0.3  2  C
13     591  4.0    0  C    4.7 -13 313   2.9  -3.0  -1.3  1  C
14     617  3.5  116  J    4.4  -6 326   3.5  -2.3  -0.8  1  J
15     620  3.4  114  J    4.3 -14 310   2.1  -2.3  -1.2  3  J
16     604  3.2  170  J    3.8  -2 331   3.0  -1.6  -0.5  2  J
17     576  3.3  119  J    4.0  13 355   3.5  -0.5   0.7  2  J
18     581  3.7    0  C    4.5  -6 351   4.0  -0.5  -0.6  2  J
19     572  3.5   86  J    4.2   9 327   3.2  -2.2  -0.3  2  J
20     554  3.3   77  J    3.9  -4 339   3.4  -1.1  -0.8  2  J
21     556  3.5  128  L    3.6  13 358   3.5  -0.5   0.7  1  J
22     559  3.0   60  J    4.1   5  25   3.6   1.3   1.1  1  J
23     558  3.0   68  J    4.0   1  24   3.5   1.3   0.8  1  J
24     555  2.9   96  J    3.9   1 357   3.8  -0.2  -0.0  1  J
```

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VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
         1000  SC MAGN LAT LON                       SC

               APR. 30, 1982                   120

553  6.7    0  C   12.2  -4 323   9.3  -5.8  -4.0  2  C
558  6.7    0  C   12.0  -4 320   8.9  -6.3  -4.0  2  C
574  7.0    0  C   11.1  28 315   6.0  -7.4   1.6  4  C
562  6.6    0  C   10.4   2 319   7.3  -6.0  -2.0  3  C
569  6.3    0  C    9.9  -7 318   6.8  -5.4  -3.0  3  C
571  5.8    0  C    9.7 -13 307   5.5  -6.4  -4.1  2  C
569  5.5    0  C    9.4 -16 317   6.4  -5.3  -3.9  1  C
562  5.8    0  C    8.5   0 324   6.3  -4.5  -0.9  3  C
554  5.9    0  C    7.8   4 339   6.3  -2.5   0.2  3  C
585  5.6    0  C    7.3  33 318   3.9  -3.9   2.9  3  C
607  5.3    0  C
581  5.0    0  C    7.0  31 356   5.3  -0.8   3.1  2  C
574  4.8    0  C    7.3  20   1   6.7  -0.2   2.4  1  C
586  4.4    0  C    7.6  -6 320   5.3  -4.4  -1.4  2  C
611  3.9    0  C    7.9   7 308   3.6  -4.6  -0.3  5  C
601  3.7    0  C    7.6 -19 321   4.9  -3.3  -3.1  3  C
610  3.6    0  C    7.4  10 322   3.6  -3.0  -0.1  5  C
598  3.9    0  C    6.7  26 302   2.7  -5.0   0.8  3  C
582  4.0    0  C    5.8 -15 296   1.5  -2.4  -2.1  4  C
586  3.5    0  C    5.7  20 294   1.6  -4.0  -0.3  3  C
574  3.6    0  C    5.7   0 337   4.0  -1.4  -0.8  3  C
539  3.5    0  C    5.6  13 291   1.8  -4.8  -1.3  2  C
489  4.0    0  C    5.0 -33 317   2.5  -0.9  -3.0  3  C
487  4.1    0  C    5.6 -31 303   2.4  -1.9  -4.1  2  C

               MAY   2, 1982                   122

485  9.8    0  C    7.2  11 315   4.0  -4.0  -0.7  4  C
484  9.9    0  C    6.6 -44  30   3.4   3.4  -2.8  2  C
469 10.0    0  C    7.1 -47  66   1.4   4.2  -2.2  4  C
443  9.0    0  C    7.8 -24 356   6.3   0.4  -2.8  3  C
449  8.4    0  C    8.5  -9 336   6.2  -2.4  -1.7  5  C
443  8.5    0  C    9.1  -3 348   7.1  -1.4  -0.7  5  C
432  8.4    0  C    9.1  12 340   7.5  -3.0   1.2  3  C
464  8.2    0  C    9.5 -11 315   6.1  -5.8  -2.5  3  C
465  9.7    0  C    8.4  -7 338   5.7  -2.2  -1.0  5  C
478  9.5    0  C    8.4  16 302   4.0  -6.7   1.5  2  C

465  9.7    0  C    8.4 -16 306   4.5  -5.9  -2.9  1  C
461  9.8    0  C    8.4 -19 301   3.6  -5.6  -3.3  3  C
464  9.8    0  C    8.7 -36 292   2.5  -5.1  -6.0  2  C
469 10.6    0  C    7.9 -19 302   3.2  -4.5  -3.3  3  C
474 11.3    0  C    7.6 -18 298   2.7  -4.2  -3.2  4  C

501 11.3    0  C
505 10.3    0  C    9.8  -5 287   2.7  -7.3  -4.5  3  C
499  9.4    0  C    9.7  17 298   3.6  -7.1  -1.2  4  C
493  9.1    0  C    9.5   7 313   5.6  -5.8  -2.0  4  C

501  9.5    0  C    9.3   9   7   7.1   0.2   1.4  5  C

               MAY   4, 1982                   124

575  4.5    0  C   10.9  20  14   9.3   0.5   4.1  3  C
613  4.1    0  C   10.5  35  18   7.8  -0.2   6.2  2  C
614  4.0    0  C   10.2  44  14   6.7  -1.1   6.8  2  C
664  3.6    0  C    9.7  37  26   6.1   0.9   5.8  4  C
679  2.8  276  J    7.9  17  25   4.9   1.7   2.2  4  C
616  5.8  671  L
649  3.9  251  J
702  3.2  274  J    7.7  45  40   3.9   2.4   5.6  2  J
673  3.6    0  C    7.7  32  16   5.7   1.2   4.0  2  C
682  4.1  229  J    8.0 -35 333   5.3  -2.3  -4.5  3  J
678  3.8  148  J    8.1 -25 318   4.8  -4.1  -3.4  3  J
669  3.9  164  J    7.3   0 331   5.6  -3.1  -0.3  3  J
679  4.1  141  J    7.2  10  14   6.0   1.4   1.3  3  J
697  3.6  113  J    6.2 -26 300   2.5  -3.9  -3.0  3  J
680  3.7  137  J    7.0 -33 333   4.0  -1.5  -3.3  4  J
653  3.9  180  J    7.6 -28 319   4.7  -3.2  -4.2  2  J
652  3.6    0  C    7.3 -29 325   4.5  -2.1  -3.9  3  C
538  3.8    0  C    6.9 -15 323   5.2  -3.0  -2.9  1  C
576  3.0  150  J    7.2  26  80   1.0   4.2   4.9  3  J
579  3.3  155  J    7.1   8  85   0.5   5.2   3.5  3  J
565  3.6  184  J    6.8  21  70   1.6   3.1   3.7  4  J
584  3.6  176  J    6.8  16  84   0.6   4.3   4.3  3  J
571  3.3  176  J    6.7   9  79   1.1   4.5   3.6  3  J
627  3.4    0  C    6.5  21  46   3.7   2.3   3.6  3  C

               MAY   6, 1982                   126

533  3.6    0  C    3.7  21 294   1.0  -2.4  -0.2  2  C

523  3.2    0  C    3.7  18 338   3.1  -1.6   0.5  1  C

538  2.9   59  J    3.5   9 280   0.6  -3.3  -0.5  1  J
535  2.8   66  J    3.2   1 288   0.9  -2.7  -0.6  1  J
559  2.5   60  J    3.5   3 224  -2.4  -2.3  -0.3  1  J
511  2.8    0  C    3.3 -12 267  -0.2  -2.8  -1.1  1  J
535  2.5   60  J    3.7  20 230  -1.9  -2.4   0.8  2  J
517  3.3   53  J    4.0   3 279   0.5  -3.1  -0.1  3  J
506  3.3   45  J    3.7  -7 343   3.0  -0.9  -0.5  2  J
503  3.2   69  J    3.5  -7 340   3.0  -1.0  -0.5  1  J
495  2.7   54  J    3.2  -4 340   2.7  -1.0  -0.3  1  J
483  3.5    0  C    3.5  -6 343   3.3  -0.9  -0.5  1  C
477  3.6    0  C    3.7  -1 343   3.5  -1.0  -0.3  0  C
476  3.8    0  C    3.7 -11 330   3.0  -1.6  -1.1  1  C
449  4.8    0  C    3.7  -4 327   3.1  -1.8  -0.8  1  C
459  4.2   39  J    3.9   7 336   3.4  -1.6  -0.1  1  J
459  3.8   37  J    4.0   4 326   3.0  -1.9  -0.5  1  J
453  3.8   58  J    3.9   6 332   3.1  -1.6  -0.4  2  J
444  3.7   66  J    3.8  -5 333   3.0  -1.2  -1.0  2  J
430  3.4   39  J    3.9 -19 324   2.4  -1.1  -1.8  2  J
423  4.7   39  J    4.1   8 272   0.1  -2.7  -1.0  3  J
406  3.3   45  J    4.0  -4 340   2.5  -0.7  -0.6  3  J
```

# 05/07/82 – 05/14/82

MAY 7, 1982 127

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 371 | 4.8 | 0 | C | 3.9 | 0 | 344 | 3.5 | -0.9 | -0.4 | 1 | J |
| 2 | 373 | 3.7 | 26 | J | 3.9 | 4 | 345 | 3.6 | -1.0 | -0.2 | 1 | J |
| 3 | 378 | 3.6 | 0 | C | 4.3 | 1 | 336 | 3.7 | -1.5 | -0.6 | 1 | J |
| 4 | 390 | 3.1 | 32 | J | 4.0 | -1 | 336 | 3.5 | -1.4 | -0.6 | 1 | J |
| 5 | 366 | 3.4 | 30 | J | 4.1 | 0 | 343 | 3.7 | -1.1 | -0.3 | 1 | J |
| 6 | 365 | 4.8 | 0 | C | 4.1 | 2 | 342 | 3.8 | -1.2 | -0.2 | 1 | C |
| 7 | 356 | 4.7 | 0 | C | 4.3 | 6 | 347 | 4.1 | -1.0 | 0.3 | 1 | C |
| 8 | 351 | 5.1 | 0 | C | 4.8 | -5 | 342 | 4.5 | -1.4 | -0.7 | 1 | C |
| 9 | 362 | 5.6 | 35 | J | 4.6 | -15 | 1 | 3.8 | 0.2 | -1.0 | 2 | J |
| 10 | 364 | 5.4 | 43 | J | 5.3 | -17 | 349 | 4.8 | -0.8 | -1.6 | 1 | J |
| 11 | 370 | 6.1 | 66 | J | 5.2 | -11 | 355 | 5.0 | -0.4 | -1.0 | 1 | J |
| 12 | 355 | 7.1 | 67 | J | 4.8 | -8 | 342 | 4.2 | -1.3 | -0.7 | 2 | J |
| 13 | 357 | 7.1 | 42 | J | 5.1 | -15 | 332 | 3.8 | -1.9 | -1.4 | 2 | J |
| 14 | 362 | 7.8 | 41 | J | 5.2 | -13 | 326 | 4.0 | -2.6 | -1.5 | 1 | J |
| 15 | 356 | 7.7 | 33 | J | 4.8 | -17 | 319 | 3.1 | -2.4 | -1.7 | 2 | J |
| 16 | 342 | 8.5 | 0 | C | 5.2 | -15 | 318 | 3.7 | -2.9 | -2.0 | 1 | C |
| 17 | 342 | 8.2 | 27 | J | 5.1 | 3 | 287 | 1.5 | -4.8 | -1.1 | 0 | J |
| 18 | 337 | 9.7 | 22 | J | 5.2 | 5 | 313 | 3.3 | -3.5 | -0.8 | 2 | J |
| 19 | 344 | 10.1 | 26 | J | 5.9 | 7 | 300 | 2.9 | -4.9 | -1.3 | 1 | J |
| 20 | 337 | 11.0 | 15 | J | 5.7 | -13 | 317 | 4.0 | -2.8 | -2.7 | 1 | J |
| 21 | 340 | 12.1 | 16 | J | 5.2 | -7 | 329 | 4.3 | -2.0 | -1.7 | 1 | J |
| 22 | 341 | 12.9 | 15 | J | 4.8 | -10 | 334 | 4.2 | -1.4 | -1.7 | 1 | J |
| 23 | 336 | 13.1 | 14 | J | 5.5 | -7 | 330 | 4.6 | -2.0 | -1.8 | 1 | J |
| 24 | 333 | 12.8 | 17 | J | 5.6 | -2 | 332 | 4.9 | -2.2 | -1.4 | 1 | J |

MAY 8, 1982 128

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 326 | 14.2 | 0 | C | 5.1 | -4 | 332 | 4.5 | -2.0 | -1.4 | 1 | C |
| 324 | 14.1 | 0 | C | 5.5 | -15 | 315 | 3.7 | -2.7 | -2.8 | 1 | C |
| 322 | 14.6 | 0 | C | 5.5 | -1 | 313 | 3.6 | -3.5 | -1.6 | 1 | C |
| 321 | 15.4 | 0 | C | 5.4 | -6 | 321 | 4.2 | -3.0 | -1.6 | 1 | C |
| 317 | 15.6 | 0 | C | 5.7 | 1 | 312 | 3.8 | -4.1 | -1.2 | 1 | C |
| 313 | 15.7 | 0 | C | 5.2 | 5 | 301 | 2.6 | -4.3 | -0.5 | 1 | C |
| 324 | 15.1 | 21 | J | 4.6 | 5 | 287 | 1.3 | -4.1 | -0.4 | 2 | J |
| 311 | 16.4 | 0 | C | 4.5 | -5 | 319 | 3.2 | -2.7 | -0.8 | 1 | C |
| 337 | 12.1 | 13 | J | 5.5 | 2 | 287 | 1.6 | -5.2 | -0.4 | 0 | J |
| 333 | 13.8 | 18 | J | 4.2 | -2 | 254 | -1.1 | -3.7 | -0.5 | 1 | J |
| 321 | 15.0 | 16 | J | 4.6 | -5 | 267 | -0.2 | -4.4 | -0.7 | 1 | J |
| 318 | 16.8 | 13 | J | 4.0 | -10 | 286 | 1.1 | -3.6 | -1.0 | 1 | J |
| 315 | 18.2 | 16 | J | 3.9 | -15 | 293 | 1.5 | -3.4 | -1.3 | 1 | J |
| 312 | 16.2 | 14 | J | 5.0 | -4 | 276 | 0.5 | -4.4 | -0.9 | 2 | J |
| 313 | 16.3 | 15 | J | 5.0 | -23 | 308 | 2.8 | -3.2 | -2.5 | 1 | J |
| 299 | 17.5 | 0 | C | 5.2 | -9 | 281 | 0.8 | -4.3 | -1.7 | 2 | C |
| 308 | 17.0 | 0 | C | 4.8 | -18 | 281 | 0.8 | -3.7 | -2.5 | 1 | C |
| 303 | 15.2 | 10 | J | 3.8 | -10 | 306 | 2.2 | -2.6 | -1.6 | 1 | J |
| 303 | 18.1 | 9 | J | 3.3 | -17 | 287 | 0.9 | -2.4 | -2.0 | 1 | J |
| 309 | 17.5 | 13 | J | 3.7 | -8 | 294 | 1.4 | -2.7 | -1.8 | 1 | J |
| 311 | 20.5 | 13 | J | 3.2 | -24 | 295 | 1.2 | -1.8 | -2.4 | 0 | J |
| 314 | 22.4 | 12 | J | 4.5 | -23 | 281 | 0.8 | -2.7 | -3.3 | 2 | J |
| 311 | 24.6 | 14 | J | 4.3 | -17 | 309 | 2.4 | -2.1 | -2.4 | 2 | J |
| 299 | 29.6 | 0 | C | 5.1 | 6 | 295 | 2.1 | -4.2 | -1.6 | 1 | C |

MAY 9, 1982 129

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 299 | 34.6 | 0 | C | 6.3 | -14 | 290 | 1.9 | -4.2 | -3.7 | 2 | C |
| 2 | 294 | 42.6 | 0 | C | 4.3 | -18 | 299 | 1.9 | -2.6 | -2.6 | 1 | C |
| 3 | 313 | 44.1 | 14 | J | 4.3 | -63 | 315 | 1.3 | 0.1 | -3.8 | 2 | J |
| 4 | 316 | 41.2 | 18 | J | 6.6 | -70 | 84 | 0.2 | 4.0 | -5.0 | 3 | J |
| 5 | 306 | 40.2 | 0 | C | 6.7 | -68 | 82 | 0.3 | 3.4 | -4.4 | 4 | C |
| 6 | 338 | 17.5 | 31 | J | 9.0 | 27 | 114 | -2.9 | 5.6 | 5.1 | 4 | J |
| 7 | 339 | 17.5 | 34 | J | 9.5 | -10 | 106 | -2.4 | 8.4 | 0.0 | 4 | J |
| 8 | 336 | 19.8 | 38 | J | 8.6 | 5 | 115 | -3.5 | 7.3 | 1.8 | 2 | J |
| 9 | 341 | 23.7 | 38 | J | 7.8 | -13 | 99 | -1.1 | 7.1 | -0.9 | 3 | J |
| 10 | 341 | 23.7 | 30 | J | 9.2 | 32 | 121 | -3.7 | 5.8 | 5.0 | 4 | J |
| 11 | 330 | 29.6 | 0 | C | 9.4 | 66 | 119 | -1.7 | 2.6 | 8.5 | 2 | C |
| 12 | 330 | 29.6 | 0 | C | 6.6 | 27 | 116 | -2.0 | 3.9 | 2.6 | 4 | C |
| 13 | 340 | 20.7 | 64 | J | 4.2 | -10 | 158 | -3.3 | 1.4 | -0.5 | 2 | J |
| 14 | 359 | 21.3 | 0 | C | 7.0 | -11 | 144 | -4.1 | 3.1 | -0.6 | 5 | C |
| 15 | 359 | 18.6 | 0 | C | 6.9 | 0 | 339 | 4.7 | -1.8 | -0.3 | 5 | C |
| 16 | 364 | 19.4 | 0 | C | 6.6 | 26 | 146 | -3.9 | 2.1 | 2.8 | 4 | C |
| 17 | 373 | 18.3 | 0 | C | 7.9 | 32 | 136 | -4.6 | 3.3 | 5.0 | 2 | C |
| 18 | 374 | 12.6 | 75 | J | 8.2 | 19 | 128 | -4.4 | 4.6 | 4.2 | 3 | J |
| 19 | 376 | 15.7 | 0 | C | 7.2 | 18 | 121 | -2.5 | 3.3 | 3.0 | 5 | J |
| 20 | 393 | 10.0 | 59 | J | 8.0 | -3 | 131 | -3.4 | 3.7 | 1.4 | 6 | J |
| 21 | 398 | 9.2 | 59 | J | 7.6 | 48 | 132 | -1.0 | 1.8 | 6.6 | 3 | J |
| 22 | 390 | 11.7 | 0 | C | 7.3 | 43 | 143 | -3.3 | 0.4 | 4.7 | 4 | C |
| 23 | 403 | 7.6 | 94 | J | 8.1 | 36 | 126 | -3.6 | 2.3 | 6.2 | 3 | J |
| 24 | 390 | 7.2 | 80 | J | 7.9 | 0 | 131 | -4.9 | 5.0 | 2.6 | 3 | J |

MAY 10, 1982 130

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 400 | 7.9 | 84 | J | 7.5 | -29 | 142 | -4.8 | 4.8 | -1.4 | 3 | J |
| 402 | 8.1 | 93 | J | 7.4 | -5 | 121 | -3.2 | 5.1 | 1.7 | 4 | J |
| 400 | 8.0 | 86 | J | 7.9 | 41 | 116 | -2.4 | 2.9 | 6.4 | 3 | J |
| 396 | 7.1 | 51 | J | 8.3 | 0 | 124 | -4.0 | 5.6 | 1.9 | 4 | J |
| 413 | 8.2 | 55 | J | 8.3 | 16 | 91 | -0.1 | 5.7 | 3.6 | 5 | J |
| 387 | 7.8 | 38 | J | 9.2 | 19 | 118 | -3.8 | 6.4 | 4.3 | 3 | J |
| 380 | 8.7 | 46 | J | 9.1 | 26 | 132 | -5.1 | 4.9 | 4.6 | 3 | J |
| 364 | 8.2 | 43 | J | 9.0 | 18 | 130 | -5.3 | 5.9 | 3.5 | 3 | J |
| 360 | 8.3 | 46 | J | 8.7 | 20 | 139 | -6.2 | 5.0 | 3.5 | 0 | J |
| 368 | 11.1 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| 371 | 9.4 | 21 | J | 9.5 | -9 | 137 | -6.7 | 6.3 | -1.0 | 2 | J |
| 375 | 10.9 | 21 | J | 9.3 | -25 | 139 | -6.4 | 5.8 | -3.5 | 0 | J |
| 369 | 12.2 | 22 | J | 9.4 | 32 | 129 | -4.6 | 5.1 | 5.2 | 4 | J |
| 375 | 13.1 | 0 | C | 9.8 | 25 | 110 | -2.9 | 7.4 | 5.3 | 1 | C |
| 375 | 13.1 | 0 | C | 9.5 | 19 | 104 | -2.1 | 7.5 | 4.6 | 3 | C |
| 386 | 12.1 | 66 | J | 7.7 | 11 | 112 | -2.8 | 6.3 | 3.2 | 1 | J |
| 395 | 12.5 | 71 | J | 7.2 | 32 | 111 | -1.9 | 3.7 | 4.8 | 3 | J |
| 391 | 12.1 | 84 | J | 7.1 | 39 | 110 | -1.7 | 2.9 | 5.6 | 3 | J |
| 393 | 12.5 | 93 | J | 6.4 | 3 | 120 | -2.5 | 3.8 | 2.0 | 4 | J |
| 388 | 14.5 | 0 | C | 7.5 | -3 | 102 | -1.5 | 6.3 | 2.8 | 2 | C |
| 382 | 13.8 | 0 | C | 8.1 | 18 | 74 | 2.0 | 5.3 | 5.4 | 2 | C |
| 380 | 12.1 | 72 | J | 7.3 | -10 | 138 | -4.1 | 3.7 | 0.8 | 5 | J |
| 397 | 13.0 | 92 | J | 7.2 | 37 | 109 | -1.8 | 2.8 | 6.1 | 2 | J |

MAY 11, 1982 131

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 386 | 13.2 | 81 | J | 7.2 | -23 | 181 | -6.4 | 1.1 | -2.5 | 2 | C |
| 2 | 392 | 13.4 | 82 | J | | | | | | | | |
| 3 | 387 | 14.8 | 0 | C | | | | | | | | |
| 4 | 375 | 13.3 | 64 | J | 7.6 | -31 | 98 | -0.8 | 6.2 | -1.4 | 3 | C |
| 5 | 419 | 10.8 | 53 | J | 8.4 | 3 | 51 | 4.5 | 5.2 | 1.9 | 4 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 395 | 14.8 | 0 | C | 8.3 | 16 | 133 | -4.4 | 4.3 | 2.4 | 4 | C |
| 9 | 395 | 14.8 | 0 | C | 8.1 | 9 | 109 | -2.0 | 5.8 | 1.6 | 4 | C |
| 10 | 377 | 14.5 | 0 | C | 8.1 | -8 | 93 | -0.4 | 7.7 | -0.5 | 2 | C |
| 11 | 377 | 14.2 | 0 | C | 8.0 | -17 | 127 | -4.4 | 6.0 | -1.8 | 2 | C |
| 12 | 366 | 14.2 | 0 | C | 8.0 | -21 | 151 | -6.2 | 3.7 | -2.5 | 2 | C |
| 13 | 375 | 14.2 | 0 | C | 7.3 | -15 | 154 | -6.1 | 3.1 | -1.6 | 2 | C |
| 14 | 374 | 13.4 | 0 | C | 6.8 | -14 | 97 | -0.5 | 4.2 | -0.6 | 4 | C |
| 15 | 384 | 13.4 | 0 | C | 7.1 | -14 | 83 | 0.7 | 5.8 | -0.5 | 4 | C |
| 16 | 376 | 13.7 | 0 | C | 7.0 | 12 | 91 | -0.1 | 5.6 | 2.4 | 3 | C |
| 17 | 376 | 13.4 | 0 | C | 7.6 | -3 | 80 | 1.2 | 6.7 | 1.4 | 2 | C |
| 18 | 372 | 13.6 | 0 | C | 7.8 | -1 | 112 | -2.7 | 6.4 | 2.1 | 2 | C |
| 19 | 360 | 13.6 | 0 | C | 7.5 | -9 | 115 | -2.8 | 6.2 | 1.2 | 2 | C |
| 20 | 370 | 13.7 | 0 | C | 7.5 | -16 | 173 | -6.9 | 1.6 | -1.5 | 2 | C |
| 21 | 370 | 13.9 | 0 | C | 7.3 | -34 | 178 | -5.9 | 2.0 | -3.4 | 1 | C |
| 22 | 368 | 13.3 | 0 | C | 7.1 | -6 | 175 | -6.4 | 0.8 | -0.3 | 2 | C |
| 23 | 361 | 13.5 | 0 | C | 7.3 | -25 | 136 | -4.1 | 4.7 | -0.5 | 3 | C |
| 24 | 365 | 13.4 | 0 | C | 7.2 | 3 | 137 | -4.2 | 3.4 | 2.1 | 4 | C |

MAY 12, 1982 132

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 364 | 13.2 | 0 | C | 7.6 | -21 | 140 | -4.9 | 4.7 | -0.4 | 3 | C |
| 362 | 12.2 | 0 | C | 8.1 | -30 | 148 | -5.8 | 4.9 | -2.2 | 2 | C |
| 358 | 12.6 | 0 | C | 8.0 | -4 | 145 | -5.4 | 3.8 | 0.9 | 4 | C |
| 361 | 13.0 | 0 | C | 7.3 | 12 | 104 | -1.5 | 5.2 | 3.1 | 3 | C |
| 363 | 12.5 | 0 | C | 7.9 | -8 | 114 | -2.9 | 6.7 | 0.8 | 2 | C |
| 362 | 12.2 | 0 | C | 7.9 | -26 | 143 | -5.4 | 4.7 | -2.4 | 2 | C |
| 363 | 12.1 | 0 | C | 7.9 | -18 | 149 | -6.1 | 4.1 | -1.7 | 2 | C |
| 363 | 12.5 | 0 | C | 7.9 | -24 | 151 | -6.0 | 3.6 | -2.6 | 2 | C |
| 361 | 13.0 | 0 | C | 7.1 | -10 | 164 | -5.9 | 1.8 | -0.9 | 3 | C |
| 365 | 13.1 | 0 | C | 6.9 | -29 | 185 | -5.2 | -0.2 | -2.9 | 3 | C |
| 375 | 12.0 | 0 | C | 7.1 | -4 | 123 | -3.1 | 4.8 | -0.2 | 4 | C |
| 376 | 11.4 | 0 | C | 7.3 | 14 | 113 | -2.7 | 6.2 | 2.1 | 2 | C |
| 375 | 11.5 | 0 | C | 6.8 | 17 | 114 | -2.5 | 5.5 | 2.3 | 2 | C |
| 371 | 11.2 | 0 | C | 6.7 | 3 | 120 | -3.2 | 5.5 | 0.9 | 2 | C |
| 374 | 10.8 | 0 | C | 6.3 | 7 | 129 | -3.5 | 4.2 | 1.3 | 3 | C |
| 373 | 10.5 | 0 | C | 6.5 | 4 | 121 | -3.3 | 5.2 | 1.5 | 1 | C |
| 370 | 10.9 | 0 | C | 6.3 | -11 | 141 | -4.4 | 3.7 | -0.2 | 2 | C |
| 370 | 11.5 | 0 | C | 5.7 | 9 | 136 | -3.4 | 2.9 | 1.8 | 3 | C |
| 372 | 12.0 | 0 | C | 6.2 | 61 | 121 | -1.4 | 0.4 | 5.5 | 2 | C |
| 374 | 12.2 | 0 | C | | | | | | | | |

MAY 13, 1982 133

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 371 | 11.3 | 0 | C | 5.9 | -15 | 156 | -5.1 | 2.7 | -0.4 | 1 | C |
| 2 | 374 | 11.2 | 0 | C | 5.8 | -7 | 146 | -4.4 | 3.0 | 0.5 | 2 | C |
| 3 | 374 | 11.3 | 0 | C | 5.7 | -13 | 148 | -4.6 | 3.1 | -0.2 | 1 | C |
| 4 | 371 | 11.3 | 0 | C | 5.6 | -17 | 179 | -4.9 | 0.5 | -1.4 | 2 | C |
| 5 | 363 | 11.2 | 0 | C | 5.5 | -11 | 179 | -5.0 | 0.3 | -0.9 | 2 | C |
| 6 | 359 | 11.2 | 0 | C | 5.6 | 23 | 150 | -4.2 | 1.9 | 2.5 | 2 | C |
| 7 | 358 | 10.8 | 0 | C | 5.6 | 9 | 157 | -5.0 | 1.9 | 1.2 | 1 | C |
| 8 | 361 | 11.2 | 0 | C | 5.2 | 2 | 140 | -3.0 | 2.5 | 0.5 | 3 | C |
| 9 | 367 | 11.9 | 0 | C | 5.3 | 40 | 111 | -1.2 | 2.8 | 3.0 | 3 | C |
| 10 | 368 | 12.1 | 0 | C | 5.3 | 39 | 63 | 1.5 | 2.9 | 2.9 | 3 | C |
| 11 | 361 | 12.2 | 0 | C | 5.4 | 21 | 105 | -1.1 | 4.0 | 1.8 | 2 | C |
| 12 | 348 | 11.3 | 0 | C | 6.0 | 20 | 147 | -4.1 | 2.6 | 1.9 | 2 | C |
| 13 | 337 | 10.4 | 0 | C | 6.9 | 20 | 162 | -6.2 | 1.9 | 2.4 | 1 | C |
| 14 | 336 | 10.6 | 0 | C | 7.0 | -3 | 152 | -6.1 | 3.2 | -0.0 | 1 | C |
| 15 | 334 | 11.0 | 0 | C | 6.9 | 30 | 137 | -3.5 | 2.9 | 3.2 | 4 | C |
| 16 | 329 | 10.1 | 0 | C | 7.3 | -19 | 143 | -4.6 | 3.8 | -1.3 | 4 | C |
| 17 | 324 | 8.0 | 0 | C | 7.7 | -24 | 143 | -5.6 | 4.8 | -2.0 | 0 | C |
| 18 | 325 | 6.8 | 0 | C | 8.6 | -40 | 144 | -5.2 | 5.3 | -4.0 | 1 | C |
| 19 | 331 | 6.8 | 0 | C | 9.0 | -30 | 143 | -6.1 | 5.9 | -2.5 | 2 | C |
| 20 | 327 | 7.7 | 0 | C | 9.1 | -31 | 137 | -5.6 | 6.7 | -2.2 | 1 | C |
| 21 | 319 | 10.1 | 0 | C | 9.0 | -21 | 123 | -4.4 | 7.6 | 0.1 | 2 | C |
| 22 | 312 | 12.1 | 0 | C | 8.6 | -2 | 111 | -3.0 | 7.2 | 3.3 | 1 | C |
| 23 | 313 | 11.3 | 0 | C | 8.7 | -11 | 115 | -3.5 | 7.5 | 1.9 | 2 | C |
| 24 | 320 | 11.8 | 0 | C | 8.8 | -3 | 134 | -1.9 | 7.3 | 3.1 | 3 | C |

MAY 14, 1982 134

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 324 | 13.2 | 0 | C | 8.5 | 16 | 106 | -2.1 | 5.9 | 5.2 | 1 | C |
| 321 | 13.1 | 0 | C | 8.9 | -10 | 111 | -3.1 | 8.0 | 1.7 | 2 | C |
| 317 | 12.7 | 0 | C | 8.8 | -1 | 123 | -4.4 | 6.5 | 2.3 | 3 | C |
| 320 | 12.2 | 0 | C | 9.8 | 1 | 132 | -6.2 | 6.5 | 2.2 | 3 | C |
| 325 | 11.7 | 0 | C | 10.3 | 24 | 136 | -6.4 | 4.9 | 5.3 | 3 | C |
| 326 | 10.3 | 0 | C | 10.9 | -4 | 142 | -8.4 | 6.6 | 0.6 | 1 | C |
| 327 | 11.2 | 0 | C | 10.8 | 26 | 135 | -6.4 | 5.8 | 5.4 | 3 | C |
| 326 | 12.2 | 0 | C | 11.5 | 10 | 133 | -7.5 | 7.8 | 2.9 | 2 | C |
| 338 | 12.4 | 0 | C | 11.8 | 31 | 122 | -5.1 | 7.8 | 6.4 | 3 | C |
| 359 | 13.3 | 0 | C | 11.5 | -31 | 127 | -5.6 | 7.7 | -5.1 | 3 | C |
| 366 | 13.9 | 0 | C | 11.1 | -1 | 122 | -5.6 | 8.8 | 0.2 | 3 | C |
| 365 | 14.1 | 0 | C | 11.3 | -28 | 146 | -6.8 | 4.8 | -4.2 | 5 | C |
| 362 | 13.6 | 0 | C | 11.2 | 5 | 137 | -7.2 | 6.8 | 1.2 | 4 | C |
| 362 | 12.9 | 0 | C | 11.2 | 14 | 129 | -6.5 | 7.6 | 3.2 | 3 | C |
| 369 | 12.5 | 0 | C | 11.4 | 5 | 129 | -6.5 | 8.0 | 1.9 | 3 | C |
| 375 | 11.6 | 0 | C | 12.7 | 31 | 123 | -5.4 | 6.9 | 7.2 | 5 | C |
| 371 | 10.5 | 0 | C | 12.9 | 3 | 126 | -7.0 | 9.2 | 2.8 | 5 | C |
| 376 | 9.4 | 0 | C | 13.2 | 12 | 120 | -6.2 | 9.2 | 5.7 | 3 | C |
| 382 | 9.7 | 0 | C | 12.8 | 27 | 116 | -4.8 | 7.3 | 8.8 | 2 | C |
| 379 | 11.0 | 0 | C | 11.9 | 15 | 124 | -6.1 | 7.2 | 6.3 | 2 | C |
| 379 | 11.7 | 0 | C | 12.1 | 20 | 124 | -6.3 | 6.7 | 7.6 | 2 | C |
| 386 | 11.9 | 0 | C | 12.3 | 17 | 123 | -6.3 | 7.0 | 7.4 | 2 | C |
| 399 | 13.5 | 0 | C | 11.7 | 15 | 121 | -5.6 | 7.1 | 6.8 | 2 | C |
| 417 | 15.0 | 0 | C | 11.2 | -2 | 97 | -1.1 | 8.2 | 3.7 | 5 | C |

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05/15/82 – 05/22/82

## MAY 15, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 15.8 | 0 | C | 11.4 | 1 | 98 | -1.2 | 7.7 | 3.7 | 7 | C |
| 2 | 399 | 15.7 | 0 | C | 11.0 | -16 | 133 | -6.0 | 6.9 | 0.1 | 4 | C |
| 3 | 402 | 15.4 | 0 | C | 11.0 | -2 | 146 | -7.5 | 4.8 | 1.4 | 5 | C |
| 4 | 401 | 15.5 | 0 | C | 11.6 | 29 | 140 | -7.1 | 4.1 | 6.7 | 4 | C |
| 5 | 407 | 15.5 | 0 | C | 12.5 | 7 | 126 | -6.8 | 8.6 | 3.7 | 4 | C |
| 6 | 407 | 15.7 | 0 | C | 13.0 | 35 | 130 | -6.7 | 6.3 | 8.6 | 2 | C |
| 7 | 434 | 14.1 | 0 | C | 11.9 | -22 | 118 | -4.9 | 9.6 | -2.8 | 3 | C |
| 8 | 447 | 12.3 | 0 | C | 12.2 | -6 | 124 | -6.0 | 8.8 | -0.1 | 4 | C |
| 9 | 471 | 11.3 | 0 | C | 12.2 | 36 | 129 | -5.6 | 6.4 | 7.0 | 4 | C |
| 10 | 478 | 10.9 | 0 | C | 12.1 | 5 | 130 | -7.2 | 8.4 | 1.4 | 3 | C |
| 11 | 515 | 9.0 | 0 | C | 12.0 | -25 | 138 | -7.2 | 6.7 | -4.4 | 4 | C |
| 12 | 505 | 8.2 | 0 | C | 11.4 | 14 | 129 | -6.2 | 7.6 | 2.8 | 4 | C |
| 13 | 515 | 7.8 | 0 | C | 11.6 | -27 | 140 | -7.7 | 6.6 | -4.8 | 2 | C |
| 14 | 510 | 7.6 | 0 | C | 11.7 | -32 | 143 | -7.4 | 6.1 | -5.2 | 3 | C |
| 15 | 495 | 8.7 | 0 | C | 11.3 | -20 | 132 | -6.4 | 7.5 | -2.6 | 4 | C |
| 16 | 493 | 9.5 | 0 | C | 11.6 | 21 | 93 | -0.6 | 8.3 | 5.1 | 5 | C |
| 17 | 477 | 9.5 | 0 | C | 9.9 | -18 | 139 | -4.9 | 4.6 | -1.0 | 7 | C |
| 18 | 459 | 9.7 | 0 | C | 9.4 | -11 | 149 | -6.3 | 4.1 | -0.2 | 5 | C |
| 19 | 464 | 9.7 | 0 | C | 8.9 | -9 | 155 | -5.3 | 2.6 | 0.0 | 6 | C |
| 20 | 459 | 10.0 | 0 | C | 8.9 | 20 | 149 | -6.2 | 2.4 | 3.9 | 4 | C |
| 21 | 447 | 10.8 | 0 | C | 9.0 | -25 | 141 | -6.1 | 6.1 | -1.3 | 1 | C |
| 22 | 446 | 11.4 | 0 | C | 9.1 | 24 | 153 | -6.2 | 1.5 | 4.2 | 4 | C |
| 23 | 443 | 11.4 | 0 | C | 9.2 | 32 | 149 | -4.5 | 1.0 | 4.1 | 6 | C |
| 24 | 456 | 11.3 | 0 | C | 9.2 | 36 | 151 | -4.8 | 0.6 | 4.8 | 5 | C |

## MAY 16, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 454 | 11.5 | 0 | C | 9.9 | 10 | 148 | -6.8 | 3.3 | 3.1 | 4 | C |
| 2 | 452 | 11.2 | 0 | C | 10.0 | -25 | 136 | -6.2 | 7.0 | -1.4 | 2 | C |
| 3 | 481 | 11.0 | 0 | C | 9.4 | 44 | 133 | -3.3 | 1.7 | 5.7 | 6 | C |
| 4 | 479 | 12.4 | 0 | C | 9.2 | 31 | 143 | -5.8 | 2.9 | 5.4 | 3 | C |
| 5 | 494 | 11.7 | 0 | C | 8.6 | 28 | 153 | -5.6 | 1.9 | 3.9 | 4 | C |
| 6 | 529 | 9.5 | 197 | J | 8.6 | 27 | 142 | -5.5 | 3.6 | 4.3 | 3 | C |
| 7 | 539 | 9.7 | 192 | J | 8.2 | -43 | 154 | -3.6 | 2.3 | -3.5 | 5 | C |
| 8 | 543 | 9.1 | 169 | J | 8.1 | -2 | 149 | -5.8 | 3.5 | 0.1 | 3 | C |
| 9 | 549 | 8.6 | 177 | J | 7.8 | -3 | 135 | -4.2 | 4.2 | -0.0 | 5 | J |
| 10 | 539 | 8.4 | 159 | J | 7.3 | 3 | 151 | -5.2 | 2.8 | 0.4 | 4 | J |
| 11 | 542 | 7.8 | 166 | J | 7.1 | 32 | 149 | -4.3 | 2.5 | 3.2 | 3 | J |
| 12 | 577 | 7.5 | 144 | J | 6.4 | 53 | 26 | 2.5 | 1.1 | 3.8 | 4 | J |
| 13 | 527 | 7.4 | 114 | J | 7.1 | 25 | 147 | -3.8 | 2.4 | 2.2 | 5 | J |
| 14 | 519 | 7.6 | 106 | J | 6.1 | 40 | 147 | -3.5 | 2.0 | 3.7 | 2 | C |
| 15 | 518 | 7.8 | 157 | J | 6.0 | 36 | 115 | -1.5 | 2.9 | 3.0 | 4 | J |
| 16 | 517 | 8.8 | 0 | C | 6.2 | 53 | 138 | -1.8 | 1.0 | 3.4 | 4 | C |
| 17 | 516 | 7.2 | 94 | J | 6.2 | -29 | 163 | -4.7 | 2.0 | -2.3 | 3 | J |
| 18 | 532 | 6.7 | 96 | J | 6.5 | 10 | 163 | -3.8 | 0.9 | 1.0 | 5 | J |
| 19 | 529 | 5.9 | 86 | J | 6.8 | 22 | 154 | -3.8 | 1.1 | 2.2 | 5 | J |
| 20 | 546 | 6.1 | 137 | J | 7.8 | 31 | 98 | -0.8 | 3.8 | 5.1 | 4 | J |
| 21 | 549 | 7.4 | 189 | J | 7.8 | 83 | 215 | -0.7 | -3.6 | 6.6 | 2 | J |
| 22 | 514 | 6.3 | 110 | J | 7.1 | -6 | 146 | -4.9 | 3.3 | 0.9 | 4 | J |
| 23 | 511 | 5.8 | 86 | J | 6.8 | -5 | 140 | -4.7 | 3.8 | 1.2 | 3 | J |
| 24 | 506 | 6.2 | 83 | J | 6.7 | -13 | 134 | -4.4 | 4.7 | 0.6 | 1 | J |

## MAY 17, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 534 | 6.2 | 116 | J | 6.6 | -7 | 99 | -0.9 | 5.4 | 1.6 | 3 | J |
| 2 | 500 | 6.4 | 113 | J | 5.9 | 10 | 164 | -4.5 | 0.9 | 1.3 | 3 | J |
| 3 | 499 | 6.3 | 85 | J | 6.9 | -31 | 136 | -4.0 | 4.8 | -1.9 | 2 | J |
| 4 | 505 | 6.4 | 76 | J | 6.9 | -34 | 131 | -3.5 | 4.9 | -2.3 | 2 | J |
| 5 | 492 | 8.3 | 99 | J | 5.7 | 23 | 91 | -0.1 | 3.8 | 2.8 | 3 | J |
| 6 | 470 | 8.1 | 91 | J | 6.2 | 16 | 119 | -2.3 | 3.9 | 2.1 | 4 | J |
| 7 | 471 | 8.5 | 66 | J | 6.6 | 32 | 97 | -0.6 | 4.5 | 3.8 | 3 | J |
| 8 | 455 | 8.4 | 71 | J | 7.2 | -8 | 130 | -4.1 | 4.9 | -0.4 | 3 | J |
| 9 | 436 | 8.7 | 107 | J | 7.4 | 3 | 167 | -6.2 | 1.4 | 0.4 | 4 | J |
| 10 | 447 | 8.5 | 63 | J | 7.8 | -18 | 140 | -5.2 | 4.4 | -2.0 | 3 | J |
| 11 | 436 | 8.1 | 61 | J | 8.3 | -32 | 152 | -5.9 | 3.2 | -4.1 | 3 | J |
| 12 | 427 | 8.8 | 74 | J | 8.5 | -11 | 150 | -7.0 | 4.1 | -1.5 | 2 | J |
| 13 | 443 | 10.5 | 0 | C | 9.1 | 5 | 132 | -5.7 | 6.3 | 1.0 | 2 | C |
| 14 | 434 | 11.8 | 0 | C | 9.2 | 29 | 161 | -6.8 | 2.1 | 4.2 | 3 | C |
| 15 | 424 | 12.7 | 0 | C | 9.2 | -5 | 155 | -7.5 | 3.5 | -0.3 | 3 | C |
| 16 | 433 | 13.0 | 0 | C | 9.8 | -34 | 125 | -3.6 | 5.8 | -3.4 | 5 | C |
| 17 | 447 | 13.0 | 0 | C | 10.9 | -7 | 139 | -7.7 | 6.8 | 0.3 | 3 | J |
| 18 | 479 | 9.4 | 107 | J | 9.8 | -9 | 132 | -6.3 | 7.1 | 0.5 | 2 | C |
| 19 | 443 | 10.4 | 483 | J | 9.1 | 36 | 167 | -5.3 | -0.2 | 4.1 | 5 | C |
| 20 | 470 | 8.8 | 192 | J | 7.2 | -25 | 162 | -4.1 | 2.0 | -1.3 | 5 | J |
| 21 | 477 | 9.4 | 0 | C | 11.1 | -18 | 125 | -6.0 | 9.1 | 0.4 | 1 | C |
| 22 | 492 | 8.6 | 0 | C | 10.5 | -17 | 128 | -6.0 | 8.1 | 0.5 | 2 | C |
| 23 | 488 | 8.0 | 121 | J | 10.6 | 12 | 135 | -6.6 | 5.1 | 4.6 | 4 | J |
| 24 | 491 | 8.7 | 0 | C | 11.0 | 1 | 130 | -6.1 | 6.5 | 3.3 | 5 | C |

## MAY 18, 1982

138

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 521 | 9.1 | 0 | C | 11.1 | -11 | 155 | -8.1 | 4.1 | -0.1 | 5 | C |
| 2 | 503 | 7.5 | 121 | J | 10.4 | -22 | 137 | -6.3 | 6.8 | -1.1 | 5 | J |
| 3 | 529 | 9.3 | 209 | J | 9.1 | -19 | 149 | -5.3 | 3.7 | -1.0 | 6 | J |
| 4 | 535 | 10.3 | 355 | J | 9.6 | -21 | 140 | -5.8 | 5.5 | -1.4 | 5 | J |
| 5 | 532 | 7.5 | 153 | J | 10.2 | -14 | 139 | -6.7 | 6.1 | -0.8 | 4 | J |
| 6 | 542 | 7.7 | 211 | J | 10.1 | 19 | 144 | -5.8 | 3.7 | 3.2 | 7 | J |
| 7 | 534 | 7.8 | 194 | J | 10.7 | 31 | 161 | -7.9 | 2.0 | 5.3 | 4 | J |
| 8 | 536 | 5.8 | 156 | J | 11.5 | 8 | 122 | -5.7 | 9.0 | 2.3 | 3 | J |
| 9 | 533 | 5.9 | 144 | J | 10.8 | 24 | 158 | -7.8 | 2.9 | 3.9 | 6 | J |
| 10 | 606 | 7.1 | 170 | J | 9.1 | -30 | 130 | -3.0 | 3.7 | -2.6 | 7 | J |
| 11 | 599 | 8.0 | 224 | J | 9.4 | -57 | 152 | -4.1 | 2.3 | -7.2 | 4 | J |
| 12 | 621 | 7.9 | 230 | J | 9.4 | 1 | 86 | 0.6 | 8.5 | 0.3 | 4 | J |
| 13 | 601 | 7.8 | 236 | J | 9.2 | 8 | 106 | -2.2 | 7.7 | 1.4 | 4 | J |
| 14 | 587 | 7.7 | 204 | J | 9.3 | 32 | 125 | -3.9 | 5.3 | 4.6 | 5 | J |
| 15 | 591 | 7.6 | 0 | C | 7.8 | 60 | 145 | -2.5 | 1.2 | 5.3 | 4 | C |
| 16 | 582 | 8.4 | 0 | C | 7.7 | 12 | 174 | -6.9 | 0.5 | 1.6 | 3 | C |
| 17 | 589 | 6.0 | 174 | J | 8.2 | -20 | 112 | -2.9 | 7.6 | -1.2 | 1 | J |
| 18 | 588 | 5.8 | 150 | J | 7.9 | -6 | 120 | -3.5 | 6.0 | 1.0 | 3 | J |
| 19 | 574 | 6.2 | 110 | J | 8.0 | -16 | 146 | -5.3 | 3.9 | -0.5 | 5 | J |
| 20 | 564 | 6.1 | 93 | J | 8.2 | 9 | 141 | -5.4 | 3.6 | 2.6 | 4 | J |
| 21 | 559 | 7.1 | 112 | J | 7.4 | 16 | 141 | -4.8 | 2.8 | 3.2 | 4 | J |
| 22 | 557 | 7.0 | 120 | J | 7.4 | 2 | 151 | -5.2 | 2.5 | 1.4 | 4 | J |
| 23 | 579 | 6.5 | 121 | J | 7.5 | -25 | 122 | -2.8 | 5.1 | -0.3 | 5 | J |
| 24 | 558 | 5.9 | 114 | J | 7.6 | -24 | 130 | -4.1 | 5.6 | -0.6 | 3 | J |

## MAY 19, 1982

139

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 560 | 6.1 | 127 | J | 7.1 | -6 | 132 | -3.9 | 4.2 | 1.2 | 4 | J |
| 2 | 566 | 7.4 | 171 | J | 7.1 | 39 | 217 | -4.0 | -4.3 | 2.7 | 3 | J |
| 3 | 547 | 7.1 | 0 | C | 6.5 | 29 | 176 | -5.1 | -0.6 | 2.7 | 2 | C |
| 4 | 567 | 5.4 | 77 | J | 6.6 | -25 | 131 | -3.9 | 5.0 | -1.4 | 1 | J |
| 5 | 566 | 5.7 | 95 | J | 6.9 | 17 | 126 | -3.3 | 4.1 | 2.7 | 4 | J |
| 6 | 585 | 6.2 | 128 | J | 6.9 | 69 | 170 | -2.0 | -0.6 | 5.2 | 4 | J |
| 7 | 560 | 6.8 | 0 | C | 5.8 | -50 | 186 | -2.0 | 0.1 | -2.5 | 4 | J |
| 8 | 585 | 5.9 | 145 | J | 5.4 | 15 | 183 | -3.0 | -0.2 | 0.8 | 4 | J |
| 9 | 586 | 6.8 | 212 | J | 5.6 | 7 | 161 | -3.6 | 1.2 | 0.5 | 4 | J |
| 10 | 596 | 6.3 | 165 | J | 5.4 | 27 | 114 | -1.4 | 3.1 | 1.8 | 4 | J |
| 11 | 574 | 6.2 | 111 | J | 4.9 | 4 | 170 | -3.7 | 0.7 | 0.3 | 3 | J |
| 12 | 569 | 6.4 | 0 | C | 5.6 | 1 | 100 | -0.9 | 5.0 | 0.1 | 1 | C |
| 13 | 598 | 5.9 | 110 | J | 5.5 | 5 | 79 | 0.6 | 3.0 | 0.4 | 4 | J |
| 14 | 552 | 6.1 | 0 | C | 5.8 | -33 | 97 | -0.5 | 4.0 | -2.3 | 3 | C |
| 15 | 556 | 6.4 | 0 | C | 5.8 | 0 | 113 | -1.7 | 3.9 | 0.4 | 3 | C |
| 16 | 551 | 6.5 | 0 | C | 6.4 | 8 | 76 | 1.4 | 5.3 | 1.6 | 2 | C |
| 17 | 550 | 6.6 | 0 | C | 5.8 | -3 | 89 | 0.1 | 4.8 | 0.8 | 2 | C |
| 18 | 586 | 6.6 | 92 | J | 6.1 | 3 | 66 | 2.4 | 5.2 | 1.8 | 1 | J |
| 19 | 560 | 6.8 | 96 | J | 5.9 | 3 | 95 | -0.4 | 4.5 | 1.8 | 3 | J |
| 20 | 557 | 6.0 | 96 | J | 5.9 | -28 | 125 | -2.5 | 4.1 | -0.8 | 3 | J |
| 21 | 547 | 5.9 | 113 | J | 5.6 | -43 | 155 | -3.6 | 3.0 | -2.7 | 1 | J |
| 22 | 564 | 5.7 | 96 | J | 5.7 | -33 | 99 | -0.6 | 4.7 | -0.7 | 3 | J |
| 23 | 548 | 5.6 | 110 | J | 5.5 | 8 | 130 | -1.7 | 1.7 | 1.2 | 5 | J |
| 24 | 525 | 6.2 | 0 | C | 5.8 | -39 | 94 | -0.3 | 5.4 | -1.4 | 1 | C |

## MAY 20, 1982

140

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 529 | 6.0 | 0 | C | 5.7 | -9 | 155 | -4.0 | 2.0 | 0.1 | 3 | C |
| 2 | 530 | 6.4 | 0 | C | 5.8 | -6 | 84 | 0.6 | 5.3 | 1.4 | 2 | J |
| 3 | 559 | 5.8 | 93 | J | 5.3 | -13 | 94 | -0.3 | 4.5 | 0.4 | 3 | J |
| 4 | 538 | 5.7 | 117 | J | 4.9 | 23 | 133 | -2.7 | 2.3 | 2.4 | 2 | J |
| 5 | 512 | 4.9 | 62 | J | 4.4 | 9 | 173 | -4.0 | 0.3 | 0.7 | 2 | J |
| 6 | 521 | 5.8 | 88 | J | 5.3 | 18 | 144 | -3.4 | 2.2 | 1.8 | 3 | J |
| 7 | 514 | 5.5 | 55 | J | 5.4 | 7 | 143 | -4.1 | 3.0 | 1.0 | 1 | J |
| 8 | 543 | 4.3 | 72 | J | 5.7 | 0 | 105 | -1.5 | 5.5 | 0.4 | 0 | J |
| 9 | 532 | 4.7 | 73 | J | 5.6 | 3 | 109 | -1.6 | 4.7 | 0.5 | 2 | J |
| 10 | 530 | 4.9 | 69 | J | 5.8 | 2 | 111 | -1.9 | 4.8 | 0.3 | 2 | J |
| 11 | 540 | 4.7 | 59 | J | 6.1 | 17 | 90 | 0.0 | 5.4 | 1.7 | 2 | J |
| 12 | 497 | 5.4 | 0 | C | 5.6 | 1 | 109 | -1.4 | 4.3 | 0.1 | 2 | C |
| 13 | 507 | 5.5 | 0 | C | 5.1 | 18 | 77 | 1.0 | 4.2 | 1.5 | 1 | C |
| 14 | 511 | 4.6 | 67 | J | 5.0 | 5 | 122 | -2.0 | 3.2 | 0.5 | 3 | J |
| 15 | 516 | 4.7 | 62 | J | 5.1 | -1 | 110 | -1.4 | 3.9 | 0.3 | 3 | J |
| 16 | 492 | 5.5 | 0 | C | 5.3 | 3 | 139 | -3.6 | 3.1 | 0.7 | 2 | C |
| 17 | 490 | 5.5 | 0 | C | 5.7 | 9 | 130 | -3.1 | 3.4 | 1.5 | 3 | C |
| 18 | 491 | 4.8 | 66 | J | 5.4 | 25 | 174 | -4.6 | -0.1 | 2.2 | 2 | J |
| 19 | 487 | 4.2 | 61 | J | 5.4 | 22 | 155 | -4.2 | 1.3 | 2.4 | 2 | J |
| 20 | 495 | 4.9 | 94 | J | 5.0 | 17 | 165 | -4.0 | 0.5 | 1.6 | 3 | J |
| 21 | 473 | 4.5 | 113 | J | 4.8 | 16 | 170 | -4.2 | 0.2 | 1.4 | 2 | J |
| 22 | 490 | 5.5 | 0 | C | 5.9 | 16 | 155 | -3.7 | 1.1 | 1.7 | 4 | C |
| 23 | 488 | 5.9 | 0 | C | 5.9 | 16 | 107 | -1.3 | 3.4 | 3.0 | 3 | C |
| 24 | 503 | 5.9 | 48 | J | 6.2 | 3 | 94 | -0.4 | 5.2 | 2.7 | 2 | J |

## MAY 21, 1982

141

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 482 | 5.8 | 0 | C | 6.4 | 17 | 104 | -1.4 | 4.5 | 3.8 | 1 | C |
| 2 | 477 | 6.0 | 0 | C | 6.2 | 22 | 121 | -2.7 | 3.5 | 3.7 | 2 | C |
| 3 | 475 | 6.1 | 0 | C | 6.4 | 16 | 132 | -3.8 | 3.6 | 2.9 | 2 | C |
| 4 | 472 | 6.3 | 0 | C | 6.4 | 2 | 177 | -6.1 | 0.3 | 0.3 | 2 | C |
| 5 | 467 | 6.5 | 0 | C | 6.5 | 3 | 155 | -5.8 | 2.5 | 0.9 | 1 | C |
| 6 | 473 | 7.0 | 0 | C | 6.3 | 0 | 137 | -4.5 | 4.1 | 0.7 | 1 | C |
| 7 | 491 | 8.6 | 0 | C | 6.0 | -32 | 57 | 2.3 | 3.9 | -2.2 | 3 | C |
| 8 | 503 | 8.1 | 0 | C | 4.8 | -25 | 33 | 1.4 | 1.0 | -0.7 | 4 | C |
| 9 | 512 | 8.2 | 0 | C | 5.3 | -47 | 76 | 0.6 | 2.6 | -2.6 | 3 | C |
| 10 | 541 | 6.6 | 189 | J | 4.1 | 47 | 124 | -0.9 | 1.3 | 1.7 | 3 | J |
| 11 | 518 | 5.9 | 145 | J | 4.7 | 29 | 173 | -3.6 | 0.4 | 2.0 | 2 | J |
| 12 | 519 | 6.6 | 0 | C | 5.4 | -40 | 87 | 0.2 | 2.8 | -2.4 | 3 | C |
| 13 | 540 | 5.7 | 148 | J | 6.3 | -29 | 79 | 1.0 | 5.2 | -2.8 | 2 | J |
| 14 | 537 | 5.6 | 132 | J | 5.6 | -27 | 94 | -0.3 | 4.3 | -1.9 | 3 | J |
| 15 | 533 | 6.0 | 144 | J | 5.0 | -14 | 97 | -0.5 | 4.5 | -0.7 | 2 | J |
| 16 | 514 | 4.7 | 105 | J | 5.0 | 34 | 169 | -3.7 | 0.3 | 2.7 | 2 | J |
| 17 | 511 | 4.9 | 58 | J | 4.6 | 43 | 153 | -2.9 | 0.8 | 3.3 | 1 | J |
| 18 | 510 | 4.0 | 51 | J | 3.9 | -17 | 150 | -3.2 | 2.1 | -0.6 | 0 | J |
| 19 | 517 | 4.0 | 59 | J | 4.2 | 14 | 84 | 0.4 | 2.9 | 1.9 | 2 | J |
| 20 | 517 | 3.9 | 59 | J | 4.4 | 12 | 69 | 1.1 | 2.4 | 1.6 | 3 | J |
| 21 | 501 | 3.9 | 74 | J | 3.6 | 5 | 115 | -1.2 | 2.2 | 1.2 | 2 | J |
| 22 | 500 | 3.7 | 72 | J | 3.4 | -15 | 123 | -1.6 | 2.5 | 0.3 | 2 | J |
| 23 | 498 | 3.6 | 66 | J | 3.4 | -63 | 150 | -0.9 | 1.4 | -1.7 | 2 | J |
| 24 | 462 | 4.5 | 37 | J | 3.8 | -7 | 157 | -3.5 | 1.5 | 0.2 | 1 | J |

## MAY 22, 1982

142

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 486 | 4.8 | 37 | J | 4.3 | -10 | 144 | -3.4 | 2.6 | 0.2 | 0 | C |
| 2 | 443 | 5.0 | 0 | C | 4.5 | -1 | 154 | -4.0 | 1.8 | 0.6 | 1 | C |
| 3 | 441 | 5.1 | 0 | C | 4.6 | 0 | 156 | -4.1 | 1.7 | 0.5 | 1 | C |
| 4 | 449 | 4.7 | 158 | J | 4.7 | 14 | 150 | -3.9 | 1.9 | 1.7 | 0 | J |
| 5 | 436 | 5.5 | 0 | C | 4.7 | 12 | 153 | -4.0 | 1.8 | 1.4 | 1 | C |
| 6 | 432 | 5.6 | 0 | C | 5.0 | 17 | 143 | -3.6 | 2.4 | 1.8 | 1 | C |
| 7 | 424 | 5.5 | 0 | C | 4.8 | -9 | 135 | -3.3 | 3.4 | -0.3 | 1 | C |
| 8 | 421 | 5.3 | 0 | C | 4.6 | 0 | 112 | -1.5 | 3.6 | 0.3 | 2 | C |
| 9 | 419 | 4.9 | 0 | C | 4.8 | -4 | 108 | -1.4 | 4.2 | -0.1 | 2 | C |
| 10 | 414 | 4.8 | 0 | C | 4.8 | 5 | 153 | -3.9 | 2.0 | 0.4 | 2 | C |
| 11 | 415 | 5.1 | 0 | C | 4.6 | 11 | 149 | -3.6 | 2.2 | 0.8 | 1 | C |
| 12 | 417 | 5.2 | 0 | C | 4.5 | 23 | 175 | -3.8 | 0.3 | 1.6 | 1 | C |
| 13 | 415 | 5.1 | 0 | C | 4.4 | 8 | 152 | -3.5 | 1.8 | 0.5 | 2 | C |
| 14 | 413 | 5.1 | 0 | C | 4.3 | -7 | 160 | -3.7 | 1.4 | -0.4 | 1 | C |
| 15 | 418 | 4.0 | 34 | J | 4.3 | -18 | 157 | -3.5 | 1.6 | -1.1 | 2 | J |
| 16 | 407 | 5.3 | 0 | C | 4.5 | 7 | 172 | -4.3 | 0.5 | 0.6 | 1 | C |
| 17 | 406 | 4.6 | 35 | J | 4.7 | 8 | 163 | -4.5 | 1.2 | 0.9 | 0 | J |
| 18 | 405 | 4.8 | 43 | J | 4.8 | 0 | 162 | -4.5 | 1.4 | 0.4 | 1 | J |
| 19 | 404 | 4.7 | 54 | J | 4.6 | -1 | 176 | -4.3 | 0.3 | 0.0 | 1 | J |
| 20 | 391 | 4.1 | 51 | J | 4.2 | 4 | 189 | -3.6 | -0.6 | 0.0 | 2 | J |
| 21 | 392 | 5.5 | 67 | J | 4.8 | -4 | 167 | -4.6 | 1.1 | 0.1 | 1 | J |
| 22 | 380 | 5.9 | 0 | C | 4.7 | 13 | 173 | -4.4 | 0.1 | 1.2 | 1 | C |
| 23 | 388 | 5.8 | 47 | J | 4.8 | 14 | 167 | -4.3 | 0.5 | 1.4 | 2 | J |
| 24 | 391 | 5.3 | 51 | J | 5.0 | 27 | 212 | -3.6 | -2.9 | 1.1 | 2 | J |

# 05/23/82 – 05/30/82

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HR        VEL  DEN TEMP/ PLS  AV B GSE GSE  BXGSM  BYGSM  BZGSM  SG IMF      VEL  DEN TEMP/ PLS  AV B GSE GSE  BXGSM  BYGSM  BZGSM  SG IMF
                    1000  SC  MAGN LAT LON                           SC                  1000  SC  MAGN LAT LON                           SC

                           MAY  23, 1982                        143                              MAY  24, 1982                        144
 1    391  5.5   50   J   4.4  16 208   -3.1   -1.9    0.3   3  J      340  9.0    0   C   4.2 -25  76    0.8    3.6   -0.3   1  C
 2    389  5.3   33   J   4.2   6 235   -1.9   -2.7   -0.6   3  J      342  9.4    0   C   4.8  -9 113   -1.5    3.5    0.6   3  C
 3    393  5.2   34   J   4.3 -12 248   -1.0   -2.2   -1.3   3  J      335 10.1    0   C   4.4  17 103   -0.8    2.9    2.0   2  C
 4    383  6.4    0   C   4.3 -56 214   -1.4   -0.3   -2.5   3  C      328 10.6    0   C   4.8  -2 129   -2.7    3.3    0.7   2  C
 5    382  6.4    0   C   4.3 -11 159   -3.7    1.5   -0.5   1  C      326 11.4    0   C   5.3  -3 142   -4.1    3.2    0.4   1  C
 6    372  6.3    0   C   4.7  10 153   -3.7    1.7    1.0   2  C      322 14.2    0   C   4.8   3 134   -3.0    3.0    0.7   2  C
 7    369  6.2    0   C   4.9  12 164   -4.6    1.2    1.1   0  C      320 16.2    0   C   5.0  12  93   -0.2    3.9    1.2   3  C
 8    373  5.6   22   J   5.0  16 175   -4.1    0.3    1.2   2  J      317 14.5    0   C   5.9 -22 114   -2.2    5.0   -1.9   1  C
 9    378  6.2   29   J   5.0  21 142   -3.6    2.8    1.8   1  J      318 17.1    0   C   5.6 -16 110   -1.5    4.1   -1.2   3  C
10    387  6.5   41   J   5.0  16 126   -2.8    3.9    1.4   1  J      313 18.3    0   C   5.4   4 118   -2.4    4.4    0.3   2  C
11    378  6.2   30   J   5.1  15 137   -3.5    3.3    1.3   1  J      318 18.1    0   C   6.1  28 140   -3.9    3.3    2.6   2  C
12    368  6.3    0   C   5.2  14 150   -4.3    2.5    1.3   1  C      317 17.5    0   C   6.6  23 129   -3.1    3.9    2.0   4  C
13    373  6.4    0   C   5.1  21 150   -4.1    2.3    1.8   1  C      308 16.3    0   C   7.9 -18  82    1.0    7.4   -2.4   1  C
14    376  6.7    0   C   4.9  21 179   -3.8    0.0    1.5   3  C      310 17.2    0   C   7.8 -33  79    1.2    6.3   -4.0   1  C
15    375  6.9    0   C   5.1   8 169   -4.8    0.9    0.8   1  C      310 17.9    0   C   8.1 -23  73    2.1    7.2   -2.6   1  C
16    370  7.1    0   C   5.0   2 166   -4.7    1.2    0.3   1  C      302 17.9    0   C   8.0 -20  78    1.5    7.4   -1.7   2  C
17    367  7.2    0   C   5.3  14 153   -4.5    2.0    1.7   1  C      296 18.4    0   C   8.1  10 112   -2.7    6.5    2.6   3  C
18    369  7.4    0   C   5.1  18 139   -3.2    2.3    2.0   2  C      294 18.1    0   C   8.7  20 110   -2.6    6.5    4.5   2  C
19    369  7.5    0   C   5.1  16 152   -4.3    1.7    2.0   1  C      296 17.9    0   C   8.7  26 134   -4.7    3.7    4.6   4  C
20    331 17.2   71   J   5.1  14 169   -4.8    0.4    1.4   1  C      307 15.4    0   C   8.7  21 156   -6.5    1.8    3.7   4  C
21    360  7.8    0   C   5.0  10 162   -4.7    1.1    1.3   1  C      317 14.6    0   C   8.8  -6 103   -2.0    8.2    2.2   1  C
22    358  8.0    0   C   5.0  -4 137   -3.6    3.2    1.0   1  C      319 15.8    0   C   8.7   2 107   -2.5    7.5    3.5   1  C
23    356  8.0    0   C   5.1   2 151   -4.2    2.1    1.1   2  C      317 16.2    0   C   8.5   6 108   -2.5    6.9    3.8   2  C
24    349  8.3    0   C   4.4   1 132   -2.4    2.5    1.1   3  C      320 16.2    0   C   8.5  12 112   -3.1    6.2    4.5   2  C

                           MAY  25, 1982                        145                              MAY  26, 1982                        146
 1
 2
 3                                                                     336 26.2    0   C   7.4 -16 302    3.8   -5.1   -3.6   0  C
 4    323 15.1    0   C                                                336 26.2    0   C   7.8  -6 297    3.1   -5.8   -2.2   3  C
 5    323 15.1    0   C   8.6  12 108   -2.5    7.4    3.2   1  C      344 29.3    0   C   6.9  30 287    1.6   -5.6    2.1   2  C
 6    320 18.4    0   C   7.1  11 129   -4.2    4.9    2.0   1  C      343 34.1    0   C   4.4  -8 104   -0.7    2.9   -0.0   3  C
 7                                                                     329 29.5    0   C   7.5 -10  96   -0.8    7.4   -0.7   1  C
 8                                                                     334 36.0    0   C   3.1   7 206   -1.9   -0.9    0.2   2  C
 9    305 22.0    0   C                                                335 40.7    0   C   1.8  25 224   -1.0   -0.9    0.6   1  C
10    305 22.0    0   C  10.8  52 119   -3.1    5.7    8.1   3  C
11    333 12.6    0   C  11.9  22 120   -5.2    9.0    4.0   4  C
12    340 12.6    0   C  11.9  12 117   -5.3   10.4    2.2   0  C
13    338 12.0    0   C  10.1  25 115   -3.4    7.3    3.7   4  C
14    350 11.6    0   C   9.7  44  95   -0.5    6.6    6.8   2  C
15    378 21.0    0   C   5.8  19 116   -2.3    4.4    2.0   2  C
16    373 20.8    0   C   7.0  15 133   -4.5    4.7    2.4   1  C
17                                                                     506 16.1    0   C  21.6  65 275    0.7  -10.3   14.8  10  C
18    378 28.1    0   C                                                506 16.1    0   C  17.0  16 321   11.4   -9.9    2.0   6  C
19    378 28.1    0   C   5.5  50 143   -2.7    0.8    4.5   1  C      597 13.6    0   C  14.8  -8 296    4.6   -8.5   -4.1   9  C
20    370 29.0    0   C   6.4  33 137   -3.8    2.2    4.3   2  C      564 14.3    0   C  15.5  23 296    6.1  -13.7    1.4   2  C
21    365 25.6    0   C   6.9 -13 139   -4.8    4.5    0.1   2  C      528 21.1    0   C  13.5  73 232   -2.2   -6.9    9.9   4  C
22    371 25.2    0   C   6.1 -23 139   -4.0    4.1   -0.7   2  C      528 21.1    0   C  10.9  13 304    4.8   -7.4   -0.9   5  C
23    380 29.3    0   C   5.6 -12 177   -5.4    0.7   -1.0   0  C      510 21.8    0   C
24    347 29.7    0   C   3.3 -24 326    0.5   -0.2   -0.4   3  C      519 20.4    0   C  11.6  36   9    9.1   -1.1    6.8   0  C

                           MAY  27, 1982                        147                              MAY  28, 1982                        148
 1    519 20.4    0   C  15.2  47  13    9.1   -1.6   10.2   5  C      592  5.9    0   C   6.7 -38 305    1.8   -1.5   -3.1   5  C
 2    531 15.7    0   C  12.8  16 322    9.4   -8.1    1.0   2  C      545  6.3    0   C   7.7 -27 312    4.5   -3.6   -4.8   1  C
 3    539 15.0    0   C  12.0  -1 335    8.9   -3.9   -1.3   6  C      567  6.9    0   C   7.6 -22 327    5.5   -2.7   -3.5   3  C
 4    530 14.9    0   C  11.7  22 317    7.4   -7.6    2.4   3  C      579  7.8    0   C   7.4 -40 309    3.2   -2.9   -5.1   2  C
 5    528 14.1    0   C  11.3  -6 325    8.5   -5.7   -2.1   3  C      576  8.7    0   C   8.1 -28 324    4.9   -2.9   -3.7   3  C
 6    549 13.4    0   C  10.3 -75 307    1.1   -0.6   -7.2   6  C      559  9.1    0   C   9.3  -9 339    7.6   -2.7   -1.6   4  C
 7    536 13.0    0   C  10.3 -33 333    7.3   -3.3   -5.6   2  C      603  8.0    0   C  10.5  16 331    8.4   -4.9    2.5   3  C
 8    530 12.9    0   C                                                627  9.2    0   C  11.4   2 321    8.8   -7.1    0.2   1  C
 9    545 14.8    0   C  10.9 -28 287    2.8   -8.8   -4.9   2  C      633 11.0    0   C  10.5  -7 330    8.2   -4.8   -1.1   4  C
10    545 14.8    0   C  12.0 -64 252   -1.2   -3.9   -7.9   7  C      614 10.9    0   C  10.7  27 322    6.8   -5.2    4.6   4  C
11    575 13.1    0   C  11.8 -22 316    5.5   -5.4   -2.9   8  C      606 11.3    0   C  10.8   3 310    5.5   -6.6    0.8   6  C
12    595 11.4    0   C  12.1  10 348   10.9   -2.2    2.0   4  C      660 10.1    0   C  10.0 -10 328    6.0   -3.8   -1.1   6  C
13    609 11.2    0   C  12.5 -12 324    9.5   -7.1   -2.4   2  C      666  8.9    0   C  12.5   3 311    6.4   -7.2    0.7   6  C
14    602  9.9    0   C  13.4 -20 320    8.7   -7.2   -4.3   4  C      671  7.7    0   C  12.3 -31 288    3.0   -9.5   -6.0   3  C
15    601  8.4    0   C  13.4 -35 326    6.6   -4.2   -5.8   8  C      657  7.2    0   C  10.3 -18 315    6.4   -6.2   -3.3   2  C
16    617  7.7    0   C  14.2  -3 324   10.8   -7.7   -1.6   4  C      662  6.9    0   C   9.8 -15 309    5.1   -6.2   -2.9   4  C
17                                                                     675  6.9    0   C   9.9 -13 326    6.7   -4.2   -2.6   4  C
18    608  9.0    0   C   9.9 -36 281    1.3   -5.3   -6.2   3  C      721  6.7    0   C   9.4   2 317    5.2   -4.8   -0.9   5  C
19    608  9.0    0   C   9.5 -14 334    6.7   -2.6   -2.7   5  C      758  7.2    0   C   7.2 -12 341    5.0   -1.4   -1.6   4  C
20    610  9.2    0   C   8.8 -29 308    3.1   -2.9   -3.9   5  C      746  6.5    0   C   7.7   0 336    4.7   -1.9   -0.7   5  C
21    642  8.8    0   C   7.2 -16 328    5.3   -2.5   -2.9   3  C      732  6.0    0   C
22    628  6.0    0   C   6.6 -15 337    5.3   -1.5   -2.3   2  C      753  5.6    0   C   9.0  30 336    6.0   -3.8    2.5   4  C
23    613  5.5    0   C   6.7 -15 342    5.8   -1.1   -2.2   2  C      724  5.7    0   C   8.8  -3 305    3.8   -4.9   -2.3   5  C
24    615  5.3    0   C   7.0 -61  43    1.0    1.8   -1.9   6  C      723  5.7    0   C   8.4  13   5    7.3   -0.1    1.8   3  C

                           MAY  29, 1982                        149                              MAY  30, 1982                        150
 1                                                                     648  2.5  184   J   7.9  28 327    4.2   -3.4    1.6   5  C
 2    672  4.6    0   C   7.5 -24   1    6.1    0.9   -2.6   3  C      668  2.8  220   J   7.3   6 333    5.7   -2.9   -0.2   3  C
 3    613  5.0    0   C   7.3  -6 330    5.6   -2.9   -1.5   3  C      683  2.6  162   J   7.2  -4 335    5.9   -2.5   -1.2   3  J
 4    696  4.1    0   C   7.3   9 302    3.2   -5.2   -0.2   2  C      744  3.1  253   J   7.2  18 309    3.9   -5.1    0.9   3  J
 5    762  3.5    0   C   7.4 -42 308    3.1   -3.2   -5.3   1  C      745  3.4  308   J   7.0  17 310    3.8   -4.8    1.1   3  J
 6    762  3.5    0   C                                                740  3.0  347   J   6.0  14 345    4.4   -1.3    1.0   3  J
 7                                                                     799  3.2  258   J   7.0  42 290    1.6   -4.5    3.8   3  J
 8                                                                     754  3.2  285   J   6.7  33 341    4.3   -1.5    2.9   4  J
 9    678  3.5    0   C   7.9 -21 354    7.0   -0.8   -2.7   2  C      726  3.1  208   J   7.1 -33 331    5.1   -2.9   -3.7   2  J
10    678  3.5    0   C   7.7  -9 342    6.5   -2.2   -1.0   3  C      706  3.0  122   J   7.2   7 338    5.8   -2.3    0.9   3  J
11    624  4.9    0   C   7.8  24 336    5.7   -2.4    2.9   2  C      737  3.1  167   J   7.5   3 300    3.1   -5.4    0.7   4  J
12    657  4.3    0   C   7.9  14 327    5.0   -3.2    1.7   4  C      746  3.4  264   J   6.5 -15 318    4.0   -3.7   -1.2   3  J
13    671  4.0    0   C   7.2 -31 326    4.4   -3.1   -3.1   2  C      722  3.5  177   J   7.0 -21 328    4.5   -2.9   -1.9   4  J
14    688  4.4  221   J   7.6 -11 296    2.9   -6.0   -1.3   3  C      744  3.5  158   J   7.1 -16 295    2.2   -4.8   -1.5   4  J
15    708  4.1  250   J   7.3 -33 300    2.6   -4.5   -3.6   3  C      718  4.4  159   J   7.3   6 307    3.6   -4.8    0.5   4  J
16    690  4.5  188   J   7.1 -15 319    4.8   -4.0   -2.1   0  C      736  4.3  214   J   6.9 -11 307    2.9   -3.7   -1.3   5  J
17    708  4.3  202   J   6.9  11 295    2.6   -5.8    0.3   2  C      750  4.5  224   J   6.3 -40 294    1.5   -2.8   -3.5   4  J
18    749  3.9  364   J   6.8  10 295    2.2   -4.8   -0.1   4  J      735  4.4  256   J   6.1   4 328    3.3   -2.1   -0.2   5  J
19    731  4.2  334   J   6.9 -18 314    2.7   -2.4   -2.0   5  J      741  4.4  273   J   6.3  -9 305    2.8   -3.7   -1.8   4  J
20    726  4.0  326   J   6.8  11 329    3.1   -2.0    0.1   6  J      732  4.2  253   J   6.4  13 318    3.3   -3.1    0.1   4  J
21    711  3.7  197   J   6.6   3 320    3.6   -2.9   -0.8   4  J      729  4.6  261   J   6.2  -1 359    4.1   -0.0   -0.1   4  J
22    684  2.6  154   J   7.7   0 316    4.0   -3.6   -1.4   5  J      754  4.3  247   J   7.0  15 317    3.2   -3.2    0.0   5  J
23    679  2.5  159   J                                                757  4.1  214   J   7.0 -14 300    2.9   -4.1   -3.1   4  J
24    672  2.4  159   J   8.0  -7 314    4.4   -4.0   -2.3   4  J      748  4.2  246   J   6.9 -31 324    3.7   -1.6   -3.6   4  J
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MAY 31, 1982 151

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 751 | 4.0 | 227 | J | 6.4 | 3 | 317 | 3.7 | -3.4 | -0.9 | 4 | J |
| 2 | 767 | 4.1 | 231 | J | 6.1 | 6 | 310 | 2.7 | -3.2 | -0.5 | 4 | J |
| 3 | 760 | 3.9 | 213 | J | 6.2 | 9 | 318 | 3.7 | -3.4 | -0.1 | 4 | J |
| 4 | 722 | 4.3 | 0 | C | 6.6 | -11 | 294 | 2.3 | -4.9 | -2.2 | 3 | C |
| 5 | 721 | 5.2 | 0 | C | 6.6 | 29 | 1 | 4.6 | -0.3 | 2.5 | 3 | C |
| 6 | 746 | 3.7 | 183 | J | 5.8 | -23 | 316 | 2.9 | -2.6 | -2.0 | 3 | J |
| 7 | 754 | 4.0 | 168 | J | 6.5 | -19 | 313 | 3.6 | -3.8 | -2.0 | 3 | J |
| 8 | 764 | 3.7 | 153 | J | 6.4 | -12 | 334 | 4.1 | -2.0 | -1.0 | 4 | J |
| 9 | 760 | 3.8 | 159 | J | 6.4 | 0 | 316 | 3.9 | -3.7 | 0.1 | 3 | J |
| 10 | 754 | 3.7 | 187 | J | 6.1 | -4 | 324 | 4.0 | -2.9 | -0.2 | 3 | J |
| 11 | 684 | 5.2 | 0 | C | 6.5 | -21 | 359 | 4.8 | -0.2 | -1.9 | 3 | C |
| 12 | 759 | 3.6 | 190 | J | 5.9 | 39 | 46 | 2.3 | 2.5 | 2.5 | 4 | J |
| 13 | 756 | 4.0 | 230 | J | 6.3 | 27 | 327 | 3.7 | -2.3 | 2.4 | 4 | J |
| 14 | 781 | 3.7 | 227 | J | 5.8 | 35 | 53 | 2.6 | 3.5 | 2.9 | 2 | J |
| 15 | 777 | 3.6 | 206 | J | 4.7 | 30 | 18 | 2.8 | 0.9 | 1.7 | 3 | J |
| 16 | 765 | 3.8 | 216 | J | 5.2 | 14 | 353 | 3.9 | -0.5 | 0.9 | 3 | J |
| 17 | 712 | 4.2 | 0 | C | 4.9 | -56 | 345 | 2.2 | -0.1 | -3.4 | 3 | J |
| 18 | 711 | 3.5 | 195 | J | 5.7 | -13 | 333 | 4.5 | -2.0 | -1.6 | 2 | J |
| 19 | 719 | 3.1 | 107 | J | 6.0 | 10 | 331 | 4.2 | -2.5 | 0.2 | 4 | J |
| 20 | 757 | 3.0 | 167 | J | 6.1 | 20 | 290 | 1.6 | -4.6 | 0.3 | 4 | J |
| 21 | 735 | 3.0 | 147 | J | 6.3 | 15 | 297 | 2.3 | -4.8 | -0.2 | 3 | J |
| 22 | 711 | 3.1 | 216 | J | 5.5 | -27 | 357 | 4.2 | 0.5 | -2.1 | 3 | J |
| 23 | 708 | 3.1 | 177 | J | 5.3 | -19 | 2 | 4.3 | 0.7 | -1.3 | 3 | J |
| 24 | 717 | 3.2 | 245 | J | 5.2 | -22 | 19 | 4.1 | 1.9 | -1.2 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 609 | 5.8 | 122 | J | 5.3 | 11 | 300 | 1.9 | -3.4 | -0.3 | 3 | J |
| 2 | 623 | 5.2 | 118 | J | 5.0 | -27 | 265 | -0.3 | -2.9 | -2.7 | 3 | J |
| 3 | 616 | 5.0 | 117 | J | 4.6 | -38 | 288 | 0.9 | -2.3 | -3.0 | 2 | J |
| 4 | 601 | 5.3 | 148 | J | 4.9 | 6 | 319 | 3.1 | -2.7 | -0.1 | 3 | J |
| 5 | 587 | 5.2 | 230 | J | 4.6 | -2 | 353 | 3.8 | -0.4 | -0.2 | 3 | J |
| 6 | 606 | 4.5 | 160 | J | 4.4 | 23 | 4 | 3.4 | 0.1 | 1.5 | 2 | J |
| 7 | 608 | 4.7 | 114 | J | 4.4 | -26 | 319 | 2.3 | -1.9 | -1.6 | 3 | J |
| 8 | 595 | 4.8 | 150 | J | 4.8 | -27 | 336 | 3.4 | -1.5 | -1.9 | 2 | J |
| 9 | 563 | 5.4 | 0 | C | 4.6 | -11 | 338 | 3.0 | -1.2 | -0.6 | 3 | C |
| 10 | 554 | 5.6 | 0 | C | 4.9 | 3 | 309 | 2.8 | -3.5 | 0.4 | 2 | C |
| 11 | 588 | 5.1 | 97 | J | 4.9 | 12 | 291 | 1.6 | -4.0 | 1.3 | 2 | J |
| 12 | 567 | 5.4 | 72 | J | 4.5 | 8 | 328 | 3.5 | -2.2 | 0.8 | 2 | J |
| 13 | 584 | 5.0 | 113 | J | 4.4 | -13 | 41 | 3.2 | 2.7 | -1.1 | 1 | J |
| 14 | 552 | 5.7 | 0 | C | 4.7 | 4 | 28 | 4.0 | 2.1 | 0.2 | 1 | C |
| 15 | 542 | 5.5 | 0 | C | 4.7 | 11 | 355 | 4.4 | -0.4 | 0.8 | 1 | C |
| 16 | 578 | 5.3 | 83 | J | 4.3 | -6 | 302 | 2.1 | -3.3 | -0.6 | 2 | J |
| 17 | 569 | 5.3 | 82 | J | 4.2 | 6 | 312 | 2.7 | -3.0 | 0.0 | 1 | J |
| 18 | 571 | 5.3 | 67 | J | 3.9 | 3 | 300 | 1.6 | -2.8 | -0.4 | 2 | J |
| 19 | 547 | 5.2 | 0 | C | 4.3 | -6 | 290 | 1.4 | -3.5 | -1.3 | 1 | C |
| 20 | 538 | 5.2 | 0 | C | 4.7 | -13 | 250 | -1.4 | -3.5 | -2.1 | 1 | C |
| 21 | 517 | 6.1 | 0 | C | 5.9 | -8 | 236 | -3.1 | -4.1 | -2.3 | 1 | C |
| 22 | 551 | 6.0 | 82 | J | 4.8 | 16 | 242 | -2.1 | -4.2 | -0.1 | 1 | J |
| 23 | 538 | 5.5 | 103 | J | 5.0 | -12 | 331 | 3.1 | -1.4 | -1.3 | 4 | J |
| 24 | 541 | 5.7 | 135 | J | 5.1 | -23 | 349 | 4.2 | -0.2 | -2.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 460 | 8.1 | 39 | J | 4.2 | -44 | 244 | -1.2 | -1.5 | -3.3 | 2 | J |
| 2 | 458 | 8.5 | 42 | J | 4.3 | -21 | 233 | -2.2 | -2.5 | -2.2 | 2 | J |
| 3 | 451 | 7.3 | 39 | J | 3.8 | -46 | 242 | -1.2 | -1.6 | -3.1 | 1 | J |
| 4 | 440 | 7.3 | 58 | J | 2.8 | -29 | 270 | -0.0 | -1.9 | -1.5 | 2 | J |
| 5 | 430 | 6.7 | 73 | J | 3.8 | 29 | 22 | 2.8 | 0.9 | 1.8 | 1 | J |
| 6 | 417 | 6.1 | 42 | J | 4.1 | 20 | 7 | 3.6 | 0.3 | 1.4 | 1 | J |
| 7 | 413 | 6.7 | 39 | J | 4.6 | 22 | 3 | 4.2 | 0.2 | 1.7 | 1 | J |
| 8 | 414 | 7.1 | 34 | J | 5.6 | 10 | 354 | 5.3 | -0.5 | 0.9 | 1 | J |
| 9 | 413 | 7.0 | 34 | J | 5.5 | 0 | 348 | 5.3 | -1.1 | 0.1 | 1 | J |
| 10 | 411 | 7.0 | 35 | J | 5.3 | 7 | 337 | 4.7 | -1.9 | 0.8 | 1 | J |
| 11 | 411 | 7.4 | 42 | J | 5.2 | -1 | 350 | 5.0 | -0.9 | -0.0 | 1 | J |
| 12 | 406 | 7.5 | 67 | J | 4.9 | -2 | 355 | 4.8 | -0.4 | -0.1 | 1 | J |
| 13 | 396 | 8.8 | 90 | J | 4.5 | -3 | 344 | 4.2 | -1.2 | -0.1 | 1 | J |
| 14 | 393 | 10.7 | 0 | C | 5.0 | -14 | 321 | 3.8 | -3.1 | -1.1 | 1 | J |
| 15 | 391 | 10.6 | 0 | C | 4.7 | 1 | 323 | 3.3 | -2.5 | 0.1 | 2 | C |
| 16 | 390 | 10.5 | 0 | C | 4.6 | 7 | 346 | 4.4 | -1.1 | 0.5 | 0 | C |
| 17 | 388 | 12.1 | 0 | C | 4.6 | 9 | 333 | 3.9 | -2.1 | 0.5 | 1 | C |
| 18 | 388 | 12.1 | 0 | C | 4.5 | 0 | 320 | 3.3 | -2.8 | -0.5 | 1 | C |
| 19 | 398 | 9.9 | 43 | J | 5.5 | 12 | 285 | 1.3 | -5.1 | -0.1 | 1 | J |
| 20 | 398 | 10.7 | 47 | J | 5.3 | -8 | 294 | 2.1 | -4.3 | -2.0 | 1 | J |
| 21 | 387 | 12.5 | 60 | J | 5.4 | -34 | 351 | 4.1 | 0.2 | -2.9 | 2 | J |
| 22 | 388 | 13.3 | 49 | J | 5.1 | -33 | 305 | 2.3 | -2.3 | -3.5 | 2 | J |
| 23 | 388 | 13.3 | 47 | J | 5.2 | -40 | 298 | 1.8 | -2.2 | -4.2 | 1 | J |
| 24 | 380 | 13.2 | 47 | J | 5.9 | -15 | 310 | 3.4 | -3.4 | -2.6 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 329 | 20.8 | 28 | J | 3.7 | -11 | 339 | 3.1 | -1.0 | -1.0 | 1 | J |
| 2 | 316 | 30.0 | 37 | J | 6.0 | 16 | 142 | -4.5 | 3.0 | 2.5 | 0 | C |
| 3 | 346 | 38.3 | 77 | J | 5.4 | 22 | 148 | -4.0 | 2.0 | 2.4 | 2 | C |
| 4 | 347 | 47.7 | 0 | C | 13.5 | 16 | 145 | -10.2 | 6.3 | 4.6 | 6 | C |
| 5 | 376 | 60.2 | 0 | C | 16.4 | 11 | 142 | -11.1 | 8.3 | 3.6 | 7 | C |
| 6 | 374 | 60.7 | 0 | C | 12.4 | 20 | 171 | -7.5 | 1.0 | 2.8 | 9 | C |
| 7 | 349 | 69.7 | 0 | C | 9.5 | 27 | 211 | -6.9 | -4.2 | 4.1 | 3 | C |
| 8 | 367 | 57.6 | 0 | C | 8.4 | 5 | 143 | -5.7 | 4.3 | 0.5 | 4 | C |
| 9 | 396 | 37.1 | 0 | C | 12.4 | 31 | 130 | -5.5 | 7.0 | 4.8 | 7 | C |
| 10 | 402 | 31.8 | 0 | C | 13.5 | -14 | 158 | -11.4 | 4.3 | -3.5 | 4 | C |
| 11 | 399 | 30.2 | 0 | C | 12.7 | 11 | 152 | -10.0 | 5.5 | 1.6 | 4 | C |
| 12 | 395 | 28.4 | 0 | C | 12.2 | -11 | 162 | -10.7 | 3.1 | -2.6 | 4 | C |
| 13 | 391 | 27.9 | 0 | C | 11.4 | 23 | 141 | -7.1 | 6.1 | 3.4 | 4 | C |
| 14 | 383 | 25.9 | 0 | C | 11.6 | 13 | 146 | -8.6 | 6.0 | 2.0 | 4 | C |
| 15 | 377 | 23.7 | 0 | C | 11.6 | 16 | 149 | -9.3 | 5.6 | 3.0 | 2 | C |
| 16 | 381 | 23.9 | 0 | C | 11.5 | 15 | 140 | -8.3 | 6.8 | 3.1 | 2 | C |
| 17 | 374 | 26.6 | 0 | C | 10.7 | 13 | 147 | -8.7 | 5.3 | 3.0 | 0 | C |
| 18 | 374 | 26.6 | 0 | C | 10.3 | 12 | 150 | -8.6 | 4.5 | 2.8 | 2 | C |
| 19 | 360 | 29.2 | 0 | C | 9.8 | 42 | 145 | -5.6 | 2.5 | 7.0 | 3 | C |
| 20 | 366 | 33.2 | 0 | C | 4.0 | 46 | 148 | -1.4 | 0.4 | 1.8 | 4 | C |
| 21 | 358 | 31.9 | 0 | C | 4.6 | -32 | 154 | -3.2 | 2.2 | -1.7 | 2 | C |
| 22 | 351 | 27.4 | 0 | C | 8.1 | 76 | 82 | 0.3 | -0.6 | 8.0 | 1 | C |
| 23 | 365 | 26.7 | 0 | C | 9.9 | 63 | 132 | -2.9 | 0.3 | 9.0 | 3 | C |
| 24 | 392 | 23.3 | 0 | C | 11.0 | 5 | 143 | -7.4 | 4.9 | 2.5 | 6 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 706 | 4.3 | 152 | J | 5.0 | -10 | 343 | 4.1 | -1.0 | -1.1 | 2 | J |
| 705 | 4.5 | 137 | J | 5.3 | -10 | 342 | 4.1 | -1.1 | -1.1 | 3 | J |
| 686 | 4.9 | 81 | J | 5.7 | -28 | 336 | 4.5 | -1.3 | -3.0 | 1 | J |
| 691 | 4.3 | 91 | J | 5.2 | -19 | 358 | 4.4 | 0.2 | -1.5 | 2 | J |
| 661 | 4.6 | 0 | C | 5.5 | 21 | 40 | 3.6 | 2.7 | 2.2 | 2 | C |
| 630 | 4.6 | 0 | C | 5.0 | 52 | 20 | 2.3 | 0.5 | 3.2 | 2 | C |
| 668 | 4.7 | 0 | C | 4.9 | -58 | 304 | 0.7 | -0.9 | -1.9 | 5 | J |
| 694 | 4.6 | 110 | J | 5.4 | 3 | 296 | 2.1 | -4.4 | 0.2 | 2 | J |
| 690 | 4.4 | 97 | J | 5.4 | 0 | 299 | 2.5 | -4.5 | 0.2 | 2 | J |
| 683 | 4.5 | 128 | J | 5.5 | 6 | 294 | 1.8 | -4.0 | 0.7 | 3 | J |
| 706 | 4.2 | 125 | J | 5.0 | 23 | 237 | -2.0 | -2.9 | 1.7 | 3 | J |
| 698 | 4.9 | 159 | J | 4.9 | 50 | 251 | -0.7 | -1.9 | 2.7 | 4 | J |
| 665 | 4.8 | 175 | J | 4.9 | 10 | 281 | 0.7 | -3.5 | 0.8 | 3 | J |
| 667 | 4.7 | 169 | J | 4.2 | -3 | 283 | 0.7 | -2.9 | -0.1 | 3 | J |
| 655 | 5.7 | 227 | J | 5.0 | -3 | 41 | 3.6 | 3.1 | -0.2 | 1 | J |
| 628 | 5.4 | 74 | J | 5.5 | -29 | 5 | 4.6 | 0.6 | -2.5 | 1 | J |
| 612 | 5.7 | 0 | C | 5.2 | -30 | 354 | 4.4 | -0.1 | -2.6 | 1 | J |
| 634 | 4.2 | 87 | J | 4.0 | -22 | 340 | 2.6 | -0.7 | -1.3 | 3 | J |
| 670 | 5.2 | 155 | J | 5.3 | -28 | 246 | -1.3 | -2.4 | -2.4 | 4 | J |
| 646 | 4.7 | 189 | J | 5.0 | -50 | 264 | -0.3 | -1.6 | -3.9 | 3 | J |
| 605 | 5.2 | 0 | C | 4.7 | 6 | 341 | 4.0 | -1.5 | -0.0 | 1 | J |
| 618 | 4.5 | 122 | J | 4.9 | -28 | 334 | 3.5 | -0.9 | -2.5 | 2 | J |
| 629 | 4.7 | 99 | J | 4.9 | -27 | 262 | -0.6 | -3.1 | -3.4 | 2 | J |
| 629 | 4.8 | 109 | J | 5.1 | -35 | 265 | -0.3 | -2.5 | -3.6 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 541 | 5.3 | 142 | J | 4.3 | -22 | 332 | 3.0 | -1.1 | -1.8 | 2 | J |
| 537 | 5.9 | 209 | J | 3.5 | -13 | 341 | 2.6 | -0.7 | -0.9 | 2 | J |
| 541 | 5.5 | 161 | J | 3.8 | -10 | 315 | 2.4 | -2.2 | -1.1 | 2 | J |
| 534 | 5.7 | 141 | J | 3.4 | -15 | 329 | 2.5 | -1.3 | -1.0 | 2 | J |
| 540 | 5.6 | 137 | J | 3.2 | 4 | 305 | 1.1 | -1.6 | -0.1 | 3 | J |
| 531 | 5.5 | 185 | J | 3.8 | 10 | 313 | 2.1 | -2.3 | 0.4 | 2 | J |
| 525 | 4.6 | 111 | J | 4.0 | 9 | 350 | 3.5 | -0.6 | 0.5 | 2 | J |
| 516 | 4.7 | 64 | J | 4.3 | 11 | 333 | 3.7 | -1.9 | 0.8 | 1 | J |
| 515 | 4.5 | 64 | J | 5.2 | 6 | 346 | 4.9 | -1.2 | 0.6 | 1 | J |
| 511 | 4.5 | 54 | J | 4.9 | -10 | 356 | 4.7 | -0.4 | -0.8 | 1 | J |
| 509 | 4.5 | 63 | J | 4.9 | -13 | 347 | 4.6 | -1.1 | -1.0 | 1 | J |
| 511 | 4.3 | 66 | J | 4.3 | 0 | 334 | 3.9 | -1.9 | 0.2 | 1 | J |
| 502 | 5.7 | 99 | J | 3.5 | 4 | 341 | 3.1 | -1.1 | 0.3 | 1 | J |
| 494 | 5.4 | 125 | J | 3.6 | -6 | 351 | 3.3 | -0.5 | -0.3 | 1 | J |
| 508 | 5.8 | 69 | J | 3.9 | 26 | 261 | -0.5 | -3.3 | 1.6 | 1 | J |
| 471 | 7.4 | 0 | C | 2.9 | -38 | 345 | 1.8 | -0.4 | -1.5 | 2 | C |
| 464 | 7.3 | 0 | C | 3.8 | 1 | 311 | 1.7 | -1.9 | -0.2 | 3 | C |
| 482 | 6.0 | 117 | J | 3.2 | -4 | 335 | 2.6 | -1.2 | -0.4 | 1 | J |
| 471 | 5.7 | 68 | J | 3.7 | 13 | 296 | 1.4 | -2.9 | 0.0 | 2 | J |
| 477 | 6.0 | 90 | J | 3.8 | 20 | 317 | 2.3 | -2.4 | 0.5 | 2 | J |
| 457 | 7.4 | 0 | C | 3.7 | -20 | 309 | 2.0 | -2.0 | -1.9 | 1 | C |
| 470 | 7.3 | 46 | J | 4.2 | 17 | 233 | -2.0 | -2.9 | 0.1 | 2 | J |
| 466 | 7.7 | 46 | J | 4.0 | 3 | 240 | -1.6 | -2.7 | -0.8 | 2 | J |
| 463 | 8.1 | 45 | J | 4.5 | -23 | 241 | -1.9 | -2.7 | -2.6 | 2 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 361 | 15.9 | 0 | C | 5.6 | 43 | 292 | 1.5 | -4.6 | 2.5 | 1 | C |
| 370 | 16.2 | 0 | C | 4.7 | 20 | 301 | 2.0 | -3.7 | 0.5 | 2 | C |
| 375 | 16.5 | 21 | J | 4.3 | -6 | 290 | 1.3 | -3.4 | -1.2 | 2 | J |
| 376 | 18.9 | 23 | J | 2.7 | -2 | 278 | 0.2 | -1.3 | -0.3 | 3 | J |
| 356 | 21.3 | 0 | C | 4.2 | 7 | 134 | -2.8 | 2.9 | 0.8 | 1 | C |
| 362 | 16.8 | 17 | J | 5.0 | 1 | 301 | 2.6 | -4.3 | -0.2 | 0 | J |
| 355 | 20.7 | 19 | J | 3.7 | -6 | 298 | 1.6 | -3.0 | -0.4 | 2 | J |
| 347 | 23.3 | 18 | J | 3.2 | 15 | 324 | 2.4 | -1.7 | 0.8 | 1 | J |
| 345 | 25.0 | 19 | J | 3.2 | -11 | 330 | 2.6 | -1.6 | -0.5 | 1 | J |
| 346 | 25.6 | 20 | J | 3.6 | -12 | 316 | 2.4 | -2.4 | -0.5 | 1 | J |
| 345 | 25.1 | 26 | J | 4.3 | 2 | 300 | 0.5 | -0.9 | 0.1 | 4 | J |
| 356 | 22.0 | 32 | J | 4.1 | -20 | 305 | 2.0 | -3.0 | -1.0 | 2 | J |
| 354 | 21.0 | 30 | J | 5.0 | -23 | 322 | 3.6 | -3.0 | -1.7 | 1 | J |
| 358 | 23.0 | 32 | J | 4.3 | -6 | 334 | 3.8 | -1.9 | -0.3 | 1 | J |
| 346 | 24.3 | 32 | J | 3.0 | -3 | 318 | 2.2 | -1.9 | -0.1 | 1 | J |
| 320 | 21.7 | 0 | C | 5.9 | -8 | 129 | -3.5 | 4.3 | -0.6 | 2 | C |
| 338 | 17.6 | 0 | C | 6.5 | 7 | 146 | -5.2 | 3.4 | 1.1 | 1 | C |
| 340 | 18.0 | 0 | C | 6.0 | 25 | 143 | -4.3 | 2.8 | 3.0 | 1 | C |
| 339 | 19.7 | 31 | J | 3.9 | 20 | 147 | -3.0 | 1.6 | 1.7 | 1 | J |
| 332 | 20.1 | 25 | J | 4.4 | 16 | 169 | -4.0 | 0.4 | 1.3 | 1 | J |
| 331 | 21.2 | 24 | J | 3.6 | 24 | 174 | -2.8 | -0.1 | 1.3 | 2 | J |
| 332 | 20.5 | 24 | J | 4.0 | 31 | 161 | -2.5 | 0.3 | 1.8 | 2 | J |
| 330 | 19.1 | 25 | J | 4.1 | 10 | 148 | -3.4 | 1.8 | 1.4 | 0 | J |
| 332 | 20.2 | 26 | J | 3.3 | 29 | 108 | -0.4 | 0.9 | 1.0 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 430 | 7.1 | 0 | C | 13.7 | -38 | 145 | -8.8 | 8.1 | -6.6 | 1 | C |
| 440 | 7.8 | 0 | C | 12.8 | -17 | 138 | -9.0 | 8.6 | -1.8 | 2 | C |
| 457 | 8.6 | 0 | C | 11.5 | 14 | 149 | -9.0 | 4.9 | 3.5 | 3 | C |
| 471 | 7.6 | 0 | C | 12.9 | -3 | 141 | -9.7 | 7.8 | 0.1 | 3 | C |
| 480 | 7.8 | 0 | C | 12.0 | -33 | 153 | -8.3 | 4.5 | -5.8 | 4 | C |
| 481 | 9.4 | 0 | C | 11.1 | -36 | 130 | -5.7 | 6.8 | -6.4 | 1 | C |
| 474 | 10.9 | 0 | C | 8.7 | -62 | 341 | 3.1 | -1.3 | -6.2 | 4 | C |
| 472 | 11.2 | 0 | C | 9.6 | -42 | 129 | -3.7 | 4.2 | -5.7 | 5 | C |
| 463 | 11.2 | 0 | C | 10.1 | -44 | 116 | -2.9 | 5.4 | -7.1 | 3 | C |
| 455 | 11.8 | 0 | C | 9.8 | -25 | 142 | -6.2 | 4.4 | -4.2 | 4 | C |
| 453 | 12.2 | 0 | C | 9.6 | 5 | 156 | -7.9 | 3.6 | 0.4 | 4 | C |

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 449 | 8.1 | 0 | C | 11.7 | 17 | 158 | -10.2 | 4.1 | 3.6 | 2 | C |
| 449 | 8.1 | 0 | C | 11.5 | 25 | 168 | -10.0 | 1.7 | 4.9 | 2 | C |
| 468 | 7.8 | 0 | C | 11.0 | 20 | 178 | -10.2 | -0.2 | 3.6 | 1 | C |
| 465 | 8.8 | 0 | C | 10.5 | 21 | 170 | -9.3 | 0.8 | 4.0 | 2 | C |
| 463 | 8.7 | 0 | C | 10.3 | 24 | 177 | -9.2 | -0.6 | 4.0 | 2 | C |
| 448 | 9.0 | 0 | C | 10.4 | 30 | 147 | -7.4 | 3.1 | 6.3 | 1 | C |

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HR      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000   SC  MAGN LAT LON                    SC

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 1      439  8.2    0  C
 2      440  8.1    0  C   9.8  33 151  -6.7   2.4   5.6  3  C
 3      432  8.2    0  C   9.9  31 174  -8.2  -0.1   5.0  2  C
 4      426  8.2    0  C   9.8  28 176  -8.3  -0.1   4.4  2  C
 5      423  8.4    0  C   9.7  30 160  -7.5   2.3   4.9  2  C
 6      417  8.9    0  C   9.0  23 177  -7.1   0.2   3.0  4  C
 7      416  9.3    0  C   9.1  15 174  -8.6   0.9   2.3  1  C
 8      410 10.0    0  C   8.9   0 171  -8.7   1.4   0.0  1  C
 9      410 10.0    0  C   8.7   8 169  -7.8   1.6   1.0  3  C
10      404 10.5    0  C   8.6  11 180  -8.2   0.1   1.6  2  C
11      396 10.5    0  C   8.7  10 151  -7.4   4.2   1.0  1  C
12      409 10.3    0  C   8.9 -19 129  -5.2   6.0  -3.6  2  C
13      399 10.5    0  C   8.9  -9 141  -6.6   5.2  -1.9  1  C
14      399 10.5    0  C   8.8   9 133  -5.4   5.8   0.8  3  C
15      401 11.0    0  C   8.7  -5 128  -4.9   6.2  -0.9  3  C
16      412 11.3    0  C   8.8  44 143  -3.8   2.8   4.6  5  C
17      410 11.4    0  C   8.5  46 178  -4.9  -0.2   5.0  4  C
18      396 11.2    0  C   8.4 -17 197  -6.7  -1.7  -2.5  3  C
19      390 11.0    0  C   8.5  20 163  -7.2   1.6   3.2  2  C
20      388 10.8    0  C   8.8  23 165  -7.2   1.1   3.5  3  C
21      393 10.8    0  C   9.1  36 167  -6.8   0.1   5.2  3  C
22      390 11.9    0  C   9.8   4 177  -8.8   0.2   0.8  4  C
23      377 13.9    0  C  10.4  -3 172  -9.8   1.5  -0.0  2  C
24      383 13.6    0  C  10.7   0 156  -9.1   3.8   1.1  3  C

        VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000   SC  MAGN LAT LON                    SC

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        382 14.2    0  C  11.2   5 147  -8.6   5.2   2.4  3  C
        472 34.7    0  C  25.3  17 127 -13.3  15.5  10.6  8  C
        489 41.7    0  C  28.1   7 131 -17.5  18.8   7.1  6  C
        512 37.3    0  C  30.2  16 121 -13.0  20.4  10.5 13  C
        506 31.1    0  C  30.7  24 116 -12.2  23.2  14.7  5  C
        488 29.0    0  C  28.6   8  98  -4.1  27.2   5.2  6  C
        473 28.8    0  C  21.4  34 157 -14.6   6.4  10.5  9  C
        454 28.4    0  C  20.1  33 141 -12.1  10.5   9.7  6  C
        448 29.0    0  C  19.0  15 141 -13.8  11.6   3.8  3  C
        442 29.0    0  C  17.3  14 144 -13.0   9.9   2.9  4  C
        438 26.7    0  C  16.2  12 141 -11.8   9.8   2.1  4  C
        432 23.6    0  C  15.9  12 127  -9.3  12.4   1.6  2  C
        440 21.7    0  C  15.2   2 127  -8.3  11.0  -0.8  6  C
        457 22.6    0  C  13.7 -10 110  -4.1  11.0  -2.9  6  C
        451 19.7    0  C  14.0  -1 127  -8.2  11.0  -0.7  2  C
        441 16.6    0  C  14.8  15 150 -12.2   7.0   4.0  2  C
        441 16.5    0  C  13.9  25 154 -11.1   5.1   6.2  2  C
        451 18.0    0  C  13.9  21 147 -10.6   6.2   5.7  2  C
        458 19.4    0  C  16.5  48 138  -8.0   4.8  13.0  2  C
        436 21.6    0  C  15.5  32 143 -10.3   5.5   9.6  3  C
        417 23.5    0  C  11.6   9 147  -8.7   5.1   3.1  4  C
        424 23.5    0  C  10.8  17 154  -9.3   3.3   4.3  0  C
        429 17.8    0  C  11.3  58 173  -5.9  -2.1   9.2  1  C
        429 17.8    0  C

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 1
 2      466 19.2    0  C  12.7  34 152  -5.1   1.8   4.4 10  C
 3      508 13.7    0  C  14.3 -76 173  -3.3   3.0 -13.3  3  C
 4      521 13.4    0  C  14.8 -57 168  -7.9   3.4 -12.0  1  C
 5      511 13.1    0  C  15.0 -59 161  -7.2   3.6 -12.4  2  C
 6      491 12.2    0  C  15.0 -59 151  -6.7   4.2 -12.7  0  C
 7      504 13.3    0  C  11.7 -57 187  -6.1  -0.9  -9.3  3  C
 8      518 15.5    0  C   9.0 -41 194  -5.3  -1.6  -4.5  6  C
 9      511 15.5    0  C   7.9  15 159  -5.4   2.2   1.3  4  C
10      511 14.5    0  C   7.4  11 164  -6.6   2.1   1.1  2  C
11      511 14.1    0  C   8.9 -27 165  -7.5   1.4  -4.1  2  C
12      516 14.1    0  C   9.9 -31 172  -7.9   0.4  -4.9  3  C
13      544 14.2    0  C  10.4 -47 167  -5.7   0.5  -6.3  6  C
14      558 14.2    0  C   7.4 -49 170  -4.3   0.3  -5.2  3  C
15      560 14.2    0  C
16      561 10.5    0  C  10.5 -21 163  -9.2   2.8  -3.6  2  C
17      561 10.5    0  C  10.2   1 176  -9.1   0.6   0.2  4  C
18      581 10.2    0  C  10.1  18 150  -7.6   4.0   3.4  3  C
19      588 10.7    0  C  10.8  33 152  -7.8   3.0   6.5  2  C
20
21
22      549 10.7    0  C   7.7 -29 164  -6.4   2.8  -2.9  2  C
23      549 10.7    0  C   7.3  11 163  -6.0   1.4   1.6  3  C
24      546 10.7    0  C   7.0  35 141  -3.9   2.1   4.3  2  C

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        550 10.4    0  C   7.9 -16 150  -5.8   3.7  -1.0  3  C
        563 10.5    0  C   8.5 -40 170  -5.5   2.0  -4.4  3  C
        553 10.4  241  L   8.7 -14 156  -6.5   3.1  -1.2  4  C
        555  9.6  193  J   9.0 -52 182  -4.3   0.6  -5.5  4  C
        524 14.2  335  J   9.0 -41 159  -5.3   2.4  -4.8  3  C
        531 11.3  240  J   9.3  36 129  -2.9   3.5   3.4  7  C
        595 10.9    0  C   9.6 -37 142  -5.4   4.1  -5.2  4  C
        576  7.8  166  J   9.2  34 149  -5.8   3.8   4.3  4  J
        586  8.1  190  J   8.8  21 125  -3.9   5.7   2.0  5  J
        582  7.4  155  J   8.8  26 130  -4.1   5.3   2.5  5  J
        573  7.0  129  J   9.3   9 131  -4.9   5.8   0.4  5  J
        578  7.7  116  J   9.3   3 129  -5.0   6.1  -0.5  4  J
        547  7.8  126  J   9.2  12 147  -6.9   4.7   1.2  2  J
        544  8.5  126  J   9.1  17 157  -7.4   3.4   2.1  2  J
        527 10.4   99  J   8.7  24 130  -4.6   5.7   2.9  3  J
        529 10.2  109  J   9.3   7 122  -4.3   6.8   1.0  4  J
        517 15.3    0  C   8.8 -15 117  -3.4   6.7  -1.6  3  C
        523 14.3    0  C   7.6 -29 174  -5.6   0.9  -3.0  3  C
        523 13.5    0  C   7.6 -30 206  -3.6  -1.3  -2.6  5  C
        524 13.0    0  C   7.6  -6 248  -2.7  -6.4  -2.3  1  C
        516  9.2   97  J   6.9 -14 159  -5.3   2.3  -0.8  4  J
        523  9.4  119  J   7.1  -8 159  -5.2   2.1  -0.2  4  J
        524  8.2  124  J   7.0 -23 162  -5.2   2.3  -1.7  4  J
        534  8.4   97  J   6.9 -50 181  -3.4   1.0  -3.9  4  J

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 1      558  8.6    0  C   7.9 -30 165  -6.0   2.4  -3.1  3  C
 2      542  7.2  177  J   7.4 -32 173  -6.0   1.5  -3.5  2  J
 3      544  5.9  139  J   7.9 -18 157  -6.7   3.2  -1.8  2  J
 4      540  6.0  134  J   8.0 -18 155  -6.8   3.5  -2.0  1  J
 5      569  7.2    0  C   8.2  19 151  -6.1   3.2   2.7  2  C
 6      566  7.1    0  C   8.2   9 147  -6.5   4.1   1.4  2  C
 7      551  6.9    0  C   8.3   6 156  -7.0   3.1   0.8  2  C
 8      565  4.1   64  J   6.7  -4 147  -5.4   3.4  -0.7  2  J
 9      556  4.3   55  J   6.9   2 154  -5.8   2.9  -0.1  1  J
10      554  4.4   59  J   7.0  -1 168  -6.6   1.4  -0.3  2  J
11      552  4.4   64  J   7.0  -7 157  -6.2   2.5  -1.2  1  J
12      543  4.7   82  J   6.8   5 158  -6.0   2.5   0.2  2  J
13      539  4.2   75  J   6.7   2 154  -5.7   2.8  -0.2  1  J
14      526  4.1   72  J   6.6   2 150  -5.5   3.2  -0.1  1  J
15      518  3.3   72  J  10.4 -19 144  -7.4   5.2  -3.5  7  J
16      663  8.9  513  J  17.1 -21 123  -7.8  11.9  -5.6  8  J
17      616 12.2    0  C  16.4 -19 114  -5.6  12.6  -4.1  6  C
18      681 10.3  685  J  15.0 -21 109  -4.3  12.9  -3.6  5  J
19      670  9.3  542  J  14.7 -21 103  -3.0  13.7  -2.8  3  J
20      660  9.1  422  J  14.9 -18 113  -5.2  12.9  -1.5  5  J
21      674  8.5  529  J  14.6 -21 115  -5.5  12.7  -1.9  4  J
22      688 10.6  428  J  15.5 -23 135  -9.6  10.8  -2.9  5  J
23      617 11.8    0  C
24      632 16.8    0  C  14.8 -29 136  -8.7   9.9  -4.3  3  C

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        632 16.8    0  C  15.5 -39 133  -8.0  10.6  -7.3  3  C
        593 22.6    0  C  12.5 -35 144  -7.9   7.1  -5.6  3  C
        562 18.8    0  C   9.6  -9 114  -3.0   6.9   0.0  5  C
        526 13.2    0  C   8.9   0 198  -8.4  -2.7  -0.3  1  J
        551  9.0   63  J   7.3 -24 199  -6.2  -1.9  -3.1  2  J
        576  8.6    0  C   8.3 -10 186  -7.6  -0.8  -1.4  3  J
        615 12.2  171  J  10.4 -32 127  -4.2   5.4  -4.5  6  J
        630 14.5  159  J  12.2  -8 105  -2.5   9.0  -2.1  8  J
        614 15.3  169  J  11.1  13 108  -2.2   6.9   0.8  9  J
        596 16.5  223  J   9.9  37 166  -7.1   2.5   5.2  4  J
        576 18.7  205  J   9.7   1 174  -8.2   0.9   0.0  5  J
        580 19.5  146  J   9.8 -28 235  -4.8  -7.4  -3.3  3  J
        587 21.4  116  J   9.1 -31 269  -0.1  -7.4  -3.1  4  J
        557 12.7  100  J  11.5 -42 212  -5.6  -4.2  -5.5  7  J
        605  7.0  146  J  12.9  -2 150 -10.9   6.3  -0.9  3  J
        585  5.1  123  J  13.0  -9 157 -11.5   4.9  -2.1  2  J
        594  6.9  216  J  12.4 -11 164 -11.0   3.3  -2.1  4  J
        580  5.4   70  J  13.2 -37 237  -5.1  -7.1  -7.9  6  J
        547  8.6    0  C  13.6 -34 260  -1.9  -9.6  -9.3  2  J
        545  9.0    0  C  13.4 -30 260  -2.0  -9.8  -9.0  1  J
        550  9.6   86  J  11.0 -13 252  -3.1  -8.8  -4.6  4  J
        560  7.2   74  J  12.2 -46 242  -3.8  -4.7 -10.0  4  J
        579  7.4  173  J  12.0 -42 173  -8.5   3.1  -7.1  3  J
        573  6.8  105  J  13.7  -1 134  -8.3   8.4   2.0  7  J

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 1      570  5.8   81  J  13.6  32 123  -6.2   7.6   9.2  2  J
 2      554  8.6  164  J  13.0  19 126  -7.1   8.7   6.1  2  J
 3      554  8.6  162  J  12.2   6 124  -6.5   9.3   2.8  4  J
 4      562 10.0  230  J   9.8 -18 134  -5.7   6.1  -2.0  5  J
 5      594 12.1  288  J   9.5 -24 111  -2.4   6.4  -2.6  6  J
 6      562 11.5  257  J  10.7 -23 125  -4.5   6.4  -3.3  6  J
 7      580 10.2    0  C   5.5 -17 225  -3.7  -3.7  -1.4  1  J
 8      632  5.7   95  J   5.6 -32 174  -4.1   0.2  -2.6  3  J
 9      620  5.3  106  J   6.2 -44 139  -3.2   2.3  -4.4  2  J
10      620  4.9  101  J   6.3 -30 135  -3.6   3.1  -3.4  2  J
11      619  5.2  106  J   6.4 -37 130  -2.8   2.7  -3.7  3  J
12      612  5.3  132  J   6.3  -9 123  -3.2   4.7  -1.7  2  J
13      583  5.1  150  J   6.4  -4 154  -5.3   2.5  -0.8  2  J
14      582  5.3  146  J   6.3  20 168  -5.3   1.4   1.8  2  J
15      595  5.4  131  J   6.3  -7 138  -4.4   3.9  -1.0  2  J
16      565  6.4    0  C   6.5  -5 151  -4.1   2.3  -0.5  4  C
17      543  4.9  100  J   7.0   2 155  -6.0   2.8   0.3  2  J
18      545  5.2  149  J   6.5 -21 186  -4.5  -0.3  -1.8  4  J
19      581  6.3   79  J   6.9 -58 233  -1.5  -1.4  -4.3  5  J
20      557  6.7   91  J   7.0  11 138  -4.4   3.7   2.0  3  J
21      542  6.4  106  J   7.1 -10 170  -4.7   1.0  -0.6  5  J
22      541  6.9  147  J   7.4   3 156  -5.7   2.4   1.0  4  J
23      536  7.5  162  J   7.3  -6 142  -5.3   4.2   0.4  2  J
24      545  7.7  157  J   6.9  -3 159  -4.5   1.7   0.2  5  J

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        545  7.8  160  J   6.9  18 197  -4.4  -1.6   1.1  5  J
        532  7.8  178  J   7.0  29 178  -5.3  -0.4   2.9  2  C
        531  7.5  149  J   6.7  -5 124  -3.4   5.1   0.3  3  J
        549  7.2  110  J   6.6 -16 123  -3.2   5.1  -1.2  2  J
        544  7.3  163  J   6.3 -22 127  -3.3   4.5  -2.0  2  J
        527  6.8  206  J   7.2 -24 138  -4.8   4.3  -2.8  1  J
        563  6.9  145  J   6.5 -42 135  -2.7   2.5  -3.5  4  J
        566  7.6  184  J   6.3 -35 152  -3.2   1.4  -2.7  4  J
        570  8.2  223  J   7.0 -35 133  -3.0   2.8  -3.5  4  J
        582  7.6  146  J   6.7  37 114  -1.8   4.6   2.7  4  J
        561  8.3  148  J   7.0  40 119  -2.2   4.6   3.1  3  J
        564  8.6  146  J   6.2  56 139  -2.0   2.4   3.6  4  J
        538  8.2  197  J   6.0  17 171  -5.3   1.1   1.5  2  J
        582  7.5  164  J   6.6 -33  70   1.7   4.3  -3.8  3  J
        586  7.3  142  J   6.4 -10  54   3.4   4.5  -1.4  3  J
        548  9.1    0  C   6.4 -30 165  -2.2   0.6  -1.3  6  C
        553  9.4    0  C   6.1 -46  24   3.8   1.9  -4.2  1  C
        543  7.0  164  J   5.0   9 191  -4.4  -0.9   0.6  2  J
        542  7.2  138  J   5.4  -9 189  -4.7  -0.6  -0.9  2  J
        541  7.5  135  J   5.8 -25 197  -4.6  -0.9  -2.5  2  J
        524  8.4  179  J   6.0 -31 167  -5.0   1.8  -2.7  0  J
        530  9.2    0  C   6.4 -32 150  -4.1   3.1  -2.3  2  C
        503  4.9   52  J   6.4 -11 172  -5.9   1.2  -0.9  2  C
        511  5.7   58  J   6.5  -4 183  -6.1  -0.2  -0.5  2  J
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### JUN. 16, 1982 167

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 507 | 5.2 | 51 | J | 6.0 | 7 | 163 | -5.5 | 1.5 | 1.1 | 1 | J |
| 2 | 499 | 6.2 | 77 | J | 5.4 | 7 | 138 | -3.2 | 2.8 | 1.1 | 3 | J |
| 3 | 478 | 7.3 | 117 | J | 5.7 | 19 | 147 | -4.2 | 2.4 | 2.1 | 2 | J |
| 4 | 471 | 7.0 | 93 | J | 5.7 | 15 | 153 | -4.7 | 2.3 | 1.7 | 1 | J |
| 5 | 486 | 7.5 | 83 | J | 5.6 | -16 | 109 | -1.7 | 4.9 | -1.2 | 2 | J |
| 6 | 470 | 6.7 | 52 | J | 5.8 | -1 | 112 | -1.8 | 4.4 | -0.1 | 3 | J |
| 7 | 452 | 6.8 | 52 | J | 5.8 | 0 | 147 | -4.5 | 2.9 | -0.2 | 2 | J |
| 8 | 452 | 6.5 | 54 | J | 5.7 | 8 | 159 | -4.7 | 1.9 | 0.5 | 3 | J |
| 9 | 448 | 8.7 | 0 | C | 6.2 | 7 | 127 | -3.6 | 4.7 | 0.0 | 1 | C |
| 10 | 459 | 7.2 | 40 | J | 6.2 | -4 | 126 | -2.9 | 3.9 | -1.0 | 4 | J |
| 11 | 451 | 7.6 | 48 | J | 6.4 | -4 | 131 | -3.9 | 4.4 | -1.2 | 2 | J |
| 12 | 450 | 6.7 | 43 | J | 6.3 | -11 | 126 | -3.6 | 4.6 | -2.0 | 1 | J |
| 13 | 441 | 9.0 | 0 | C | 6.6 | -1 | 98 | -0.9 | 6.1 | -1.1 | 2 | C |
| 14 | 455 | 7.7 | 51 | J | 6.0 | -20 | 110 | -1.8 | 4.7 | -2.6 | 2 | J |
| 15 | 434 | 9.7 | 0 | C | 6.4 | -26 | 115 | -2.1 | 4.2 | -2.8 | 2 | C |
| 16 | 442 | 9.4 | 0 | C | | | | | | | | |
| 17 | 455 | 8.9 | 0 | C | 6.5 | -29 | 102 | -1.1 | 5.3 | -2.8 | 1 | C |
| 18 | 461 | 7.8 | 38 | J | 6.7 | -28 | 97 | -0.6 | 5.5 | -2.4 | 3 | J |
| 19 | 450 | 7.8 | 63 | J | 6.5 | -18 | 117 | -2.4 | 4.9 | -1.0 | 3 | J |
| 20 | 443 | 7.5 | 59 | J | 6.5 | 6 | 127 | -2.8 | 3.6 | 1.2 | 4 | J |
| 21 | 451 | 7.9 | 52 | J | 6.4 | -1 | 107 | -1.5 | 5.0 | 1.0 | 4 | J |
| 22 | 428 | 7.0 | 41 | J | 6.7 | -9 | 135 | -3.9 | 4.0 | 0.1 | 4 | J |
| 23 | 425 | 7.0 | 41 | J | 6.5 | 8 | 136 | -3.6 | 3.2 | 1.6 | 4 | J |
| 24 | 427 | 6.8 | 49 | J | 6.2 | -7 | 126 | -3.3 | 4.5 | 0.4 | 3 | J |

### JUN. 17, 1982 168

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 432 | 7.3 | 54 | J | 6.2 | 1 | 122 | -2.9 | 4.5 | 1.1 | 3 | J |
| 2 | 417 | 7.0 | 38 | J | 6.0 | -2 | 159 | -5.0 | 1.9 | 0.2 | 3 | J |
| 3 | 411 | 6.6 | 32 | J | 6.1 | 17 | 173 | -5.2 | 0.4 | 1.7 | 3 | J |
| 4 | 409 | 6.5 | 36 | J | 5.5 | 4 | 184 | -4.9 | -0.4 | 0.3 | 2 | J |
| 5 | 465 | 6.8 | 55 | J | 6.0 | -13 | 86 | 0.3 | 3.7 | -0.7 | 5 | J |
| 6 | 471 | 6.9 | 55 | J | 5.8 | -33 | 69 | 1.4 | 3.6 | -2.6 | 3 | J |
| 7 | 446 | 6.4 | 78 | J | 5.7 | 13 | 111 | -1.9 | 4.9 | 0.9 | 2 | J |
| 8 | 443 | 6.2 | 84 | J | 5.5 | 15 | 120 | -2.4 | 4.2 | 0.8 | 3 | J |
| 9 | 435 | 6.2 | 86 | J | 5.3 | -1 | 133 | -3.1 | 3.2 | -0.6 | 3 | J |
| 10 | 425 | 6.6 | 86 | J | 5.7 | 15 | 153 | -4.0 | 2.2 | 0.8 | 3 | J |
| 11 | 438 | 7.0 | 89 | J | 5.2 | 2 | 131 | -2.8 | 3.1 | -0.4 | 3 | J |
| 12 | 442 | 6.9 | 75 | J | 5.5 | -5 | 124 | -1.8 | 2.6 | -0.8 | 4 | J |
| 13 | 438 | 8.8 | 0 | C | 5.6 | -57 | 76 | 0.7 | 1.9 | -4.7 | 2 | C |
| 14 | 419 | 9.2 | 0 | C | 5.8 | 0 | 104 | -1.4 | 5.5 | -0.7 | 0 | C |
| 15 | 419 | 9.2 | 0 | C | 5.9 | -8 | 124 | -3.0 | 4.3 | -1.2 | 2 | C |
| 16 | 397 | 8.6 | 0 | C | 5.7 | 1 | 133 | -3.3 | 3.5 | -0.1 | 3 | C |
| 17 | 397 | 8.6 | 0 | C | 6.1 | 7 | 149 | -5.0 | 3.0 | 0.8 | 1 | C |
| 18 | 395 | 8.6 | 0 | C | 6.5 | 20 | 152 | -5.2 | 2.6 | 2.4 | 1 | C |
| 19 | 404 | 6.6 | 45 | J | 6.5 | 11 | 157 | -5.8 | 2.3 | 1.5 | 1 | J |
| 20 | 401 | 6.9 | 45 | J | 6.6 | 20 | 162 | -5.9 | 1.5 | 2.6 | 1 | J |
| 21 | 399 | 7.1 | 46 | J | 6.8 | 24 | 161 | -5.7 | 1.3 | 3.0 | 1 | J |
| 22 | 393 | 7.1 | 49 | J | 6.7 | 23 | 155 | -5.5 | 1.9 | 3.1 | 1 | J |
| 23 | 397 | 7.3 | 49 | J | 6.8 | 19 | 159 | -5.6 | 1.6 | 2.5 | 2 | J |
| 24 | 396 | 7.4 | 48 | J | 6.8 | 29 | 172 | -5.7 | 0.0 | 3.3 | 1 | J |

### JUN. 18, 1982 169

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 7.6 | 60 | J | 6.9 | 19 | 182 | -6.4 | -0.7 | 2.1 | 1 | J |
| 2 | 395 | 8.0 | 74 | J | 6.9 | 10 | 177 | -6.6 | 0.1 | 1.2 | 2 | J |
| 3 | 408 | 8.9 | 44 | J | 7.8 | 14 | 128 | -4.5 | 5.5 | 2.6 | 2 | J |
| 4 | 399 | 11.3 | 0 | C | 8.0 | 30 | 121 | -3.6 | 5.6 | 4.5 | 0 | J |
| 5 | 436 | 12.7 | 0 | C | 8.2 | -32 | 64 | 2.7 | 5.7 | -3.6 | 4 | C |
| 6 | 438 | 13.2 | 0 | C | 8.0 | -2 | 104 | -1.6 | 6.2 | -0.4 | 4 | C |
| 7 | 408 | 9.8 | 52 | J | 7.0 | 8 | 162 | -6.2 | 2.1 | 0.8 | 2 | J |
| 8 | 412 | 10.6 | 42 | J | 7.0 | 11 | 144 | -4.6 | 3.5 | 0.7 | 4 | J |
| 9 | 420 | 9.8 | 52 | J | 7.2 | 8 | 130 | -4.1 | 5.0 | 0.1 | 3 | J |
| 10 | 414 | 9.3 | 36 | J | 7.9 | 22 | 163 | -6.3 | 2.4 | 2.3 | 4 | J |
| 11 | 411 | 10.4 | 47 | J | 8.2 | 38 | 196 | -5.8 | -0.7 | 4.9 | 3 | J |
| 12 | 416 | 9.8 | 52 | J | 8.3 | 44 | 209 | -4.9 | -1.6 | 5.8 | 3 | J |
| 13 | 403 | 9.5 | 50 | J | 8.4 | 33 | 173 | -6.6 | 1.6 | 4.1 | 3 | J |
| 14 | 412 | 10.5 | 47 | J | 9.1 | 48 | 200 | -5.3 | -1.0 | 6.5 | 3 | J |
| 15 | 406 | 8.9 | 92 | J | | | | | | | | |
| 16 | 376 | 12.6 | 0 | C | | | | | | | | |
| 17 | 376 | 12.6 | 0 | C | 11.2 | 15 | 172 | -10.3 | 1.4 | 2.9 | 3 | C |
| 18 | 373 | 13.1 | 0 | C | 11.4 | 3 | 168 | -11.0 | 2.2 | 0.7 | 1 | C |
| 19 | 373 | 12.9 | 0 | C | 10.9 | 1 | 144 | -8.5 | 6.0 | 0.9 | 3 | C |
| 20 | 373 | 12.6 | 0 | C | 10.5 | -11 | 121 | -5.0 | 8.6 | -0.4 | 3 | C |
| 21 | 378 | 10.9 | 0 | C | 10.4 | 30 | 150 | -7.6 | 3.2 | 5.9 | 1 | C |
| 22 | 384 | 7.7 | 0 | C | 10.2 | 46 | 211 | -4.2 | -3.6 | 4.4 | 7 | C |
| 23 | 405 | 13.5 | 0 | C | 7.9 | 14 | 147 | -6.1 | 3.5 | 2.8 | 2 | C |
| 24 | 394 | 12.7 | 0 | C | 9.3 | 18 | 158 | -8.0 | 2.5 | 3.4 | 2 | C |

### JUN. 19, 1982 170

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 401 | 11.3 | 0 | C | 8.5 | 26 | 130 | -4.7 | 4.8 | 4.6 | 2 | C |
| 2 | 396 | 12.1 | 0 | C | 9.3 | 23 | 141 | -5.0 | 3.6 | 3.4 | 6 | C |
| 3 | 395 | 13.6 | 0 | C | 9.2 | 9 | 142 | -6.5 | 4.8 | 1.9 | 3 | C |
| 4 | 397 | 14.1 | 0 | C | 9.1 | -4 | 156 | -7.9 | 3.6 | -0.3 | 2 | C |
| 5 | 395 | 13.9 | 0 | C | 9.5 | 0 | 120 | -4.5 | 8.0 | 0.2 | 2 | C |
| 6 | 397 | 14.0 | 0 | C | 9.2 | -11 | 108 | -2.6 | 8.1 | -1.9 | 2 | C |
| 7 | 397 | 14.6 | 0 | C | 9.2 | -3 | 95 | -0.7 | 8.6 | -1.2 | 2 | C |
| 8 | 389 | 14.5 | 0 | C | 9.5 | -32 | 101 | -1.5 | 7.0 | -5.8 | 2 | C |
| 9 | 387 | 14.9 | 0 | C | 8.5 | -69 | 194 | -2.0 | -1.4 | -5.2 | 6 | C |
| 10 | 391 | 15.0 | 0 | C | 8.0 | -27 | 229 | -2.2 | -2.8 | -1.2 | 7 | C |
| 11 | 393 | 13.7 | 0 | C | 9.6 | -44 | 130 | -4.3 | 3.7 | -7.4 | 2 | C |
| 12 | 386 | 14.2 | 0 | C | 9.2 | 6 | 115 | -3.1 | 6.8 | -0.5 | 5 | C |
| 13 | 381 | 14.5 | 0 | C | | | | | | | | |
| 14 | 398 | 14.4 | 0 | C | 10.0 | -57 | 106 | -1.3 | 3.4 | -8.2 | 3 | C |
| 15 | 398 | 14.4 | 0 | C | 10.3 | -53 | 42 | 3.8 | 2.6 | -7.0 | 5 | C |
| 16 | 400 | 14.9 | 0 | C | 10.0 | -39 | 71 | 1.4 | 3.9 | -3.7 | 8 | C |
| 17 | 398 | 15.4 | 0 | C | 10.8 | -37 | 83 | 0.9 | 7.0 | -5.2 | 5 | C |
| 18 | 394 | 13.6 | 0 | C | 10.9 | -80 | 145 | -1.3 | 1.4 | -8.3 | 6 | C |
| 19 | 390 | 12.6 | 0 | C | 11.4 | -64 | 90 | -0.0 | 5.9 | -9.0 | 3 | C |
| 20 | 395 | 11.6 | 0 | C | 11.4 | -55 | 98 | -0.9 | 7.4 | -7.5 | 4 | C |
| 21 | 384 | 11.6 | 0 | C | 11.1 | -74 | 98 | -0.4 | 4.9 | -9.4 | 3 | C |
| 22 | 386 | 12.8 | 0 | C | 10.4 | -50 | 92 | -0.3 | 8.1 | -6.0 | 2 | C |
| 23 | 378 | 13.2 | 0 | C | 9.5 | -37 | 115 | -3.1 | 7.5 | -3.8 | 3 | C |
| 24 | 361 | 13.9 | 0 | C | 9.0 | 3 | 127 | -5.1 | 6.6 | 1.9 | 1 | C |

### JUN. 20, 1982 171

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 381 | 14.0 | 0 | C | | | | | | | | |
| 2 | 380 | 14.1 | 0 | C | 9.7 | -50 | 161 | -5.0 | 2.7 | -6.0 | 4 | C |
| 3 | 377 | 14.1 | 0 | C | 9.7 | -36 | 137 | -4.6 | 4.8 | -4.0 | 5 | C |
| 4 | 374 | 14.4 | 0 | C | 9.4 | -22 | 123 | -4.4 | 7.1 | -2.9 | 3 | C |
| 5 | 371 | 14.7 | 0 | C | 9.5 | -42 | 166 | -5.7 | 1.5 | -5.3 | 5 | C |
| 6 | 370 | 14.4 | 0 | C | 9.6 | -50 | 187 | -5.9 | -1.0 | -7.2 | 1 | C |
| 7 | 364 | 14.9 | 0 | C | 9.4 | -22 | 136 | -5.9 | 5.3 | -3.8 | 2 | C |
| 8 | 365 | 15.2 | 0 | C | 9.3 | 11 | 163 | -8.3 | 2.8 | 1.3 | 2 | C |
| 9 | 367 | 15.3 | 0 | C | 9.5 | -25 | 142 | -6.0 | 4.1 | -4.3 | 4 | C |
| 10 | 383 | 15.5 | 0 | C | 9.8 | -14 | 101 | -1.6 | 7.4 | -3.5 | 5 | C |
| 11 | 382 | 15.6 | 0 | C | 9.9 | 13 | 90 | 0.0 | 9.6 | 0.2 | 2 | C |
| 12 | 376 | 16.0 | 0 | C | 10.4 | 45 | 126 | -4.2 | 7.2 | 5.8 | 2 | C |
| 13 | 375 | 16.8 | 0 | C | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 355 | 13.3 | 0 | C | 10.1 | 25 | 174 | -8.4 | 0.9 | 3.9 | 3 | C |
| 18 | 355 | 13.3 | 0 | C | 9.8 | -2 | 157 | -8.1 | 3.4 | -0.1 | 4 | C |
| 19 | 371 | 12.6 | 0 | C | 9.7 | -25 | 141 | -6.4 | 5.6 | -3.2 | 3 | C |
| 20 | 370 | 12.1 | 0 | C | 9.4 | -25 | 135 | -5.7 | 6.2 | -2.7 | 2 | C |
| 21 | 367 | 12.0 | 0 | C | 9.2 | -20 | 140 | -5.8 | 5.3 | -1.7 | 4 | C |
| 22 | 356 | 12.2 | 0 | C | 9.1 | 2 | 155 | -7.6 | 3.5 | 1.1 | 3 | C |
| 23 | 366 | 12.3 | 0 | C | 8.9 | 6 | 143 | -6.0 | 4.2 | 1.7 | 4 | C |
| 24 | 371 | 13.7 | 0 | C | 8.6 | -42 | 118 | -2.9 | 6.5 | -4.2 | 1 | C |

### JUN. 21, 1982 172

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 360 | 14.1 | 0 | C | 8.3 | 6 | 133 | -4.9 | 4.9 | 1.7 | 3 | C |
| 2 | 374 | 13.9 | 0 | C | 8.4 | -9 | 93 | -0.4 | 7.2 | -0.0 | 3 | C |
| 3 | 377 | 14.4 | 0 | C | 8.4 | 13 | 93 | -0.5 | 7.5 | 2.6 | 2 | C |
| 4 | 370 | 15.1 | 0 | C | 8.3 | 25 | 122 | -3.5 | 5.4 | 3.4 | 3 | C |
| 5 | 369 | 15.9 | 0 | C | 8.5 | -15 | 124 | -3.6 | 5.4 | -1.7 | 4 | C |
| 6 | 372 | 16.8 | 0 | C | 9.4 | -28 | 109 | -2.3 | 6.4 | -3.9 | 4 | C |
| 7 | 375 | 16.5 | 0 | C | 9.9 | -18 | 103 | -1.7 | 7.3 | -3.2 | 5 | C |
| 8 | 375 | 16.1 | 0 | C | 10.1 | -49 | 114 | -2.6 | 4.8 | -8.0 | 2 | C |
| 9 | 359 | 15.9 | 0 | C | 10.0 | -23 | 122 | -4.0 | 5.7 | -4.3 | 5 | C |
| 10 | 353 | 15.9 | 0 | C | 9.8 | -9 | 129 | -5.2 | 6.1 | -2.6 | 4 | C |
| 11 | 357 | 15.5 | 0 | C | 9.7 | 18 | 118 | -3.6 | 7.2 | 1.0 | 4 | C |
| 12 | 359 | 14.9 | 0 | C | 9.5 | -27 | 136 | -4.4 | 3.5 | -3.9 | 6 | C |
| 13 | | | | | | | | | | | | |
| 14 | 347 | 14.8 | 0 | C | 9.4 | 5 | 114 | -3.8 | 8.5 | -0.7 | 0 | C |
| 15 | | | | | | | | | | | | |
| 16 | 352 | 12.5 | 0 | C | | | | | | | | |
| 17 | 352 | 12.5 | 0 | C | 8.4 | 20 | 143 | -6.2 | 4.8 | 2.8 | 0 | C |
| 18 | | | | | | | | | | | | |
| 19 | 343 | 12.3 | 0 | C | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

### JUN. 22, 1982 173

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 105 | 11.0 | 0 | C | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 202 | 12.4 | 0 | C | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 202 | 12.4 | 0 | C | 9.3 | -17 | 70 | 2.9 | 7.7 | -3.2 | 1 | C |
| 17 | 328 | 21.3 | 0 | C | 9.6 | -29 | 75 | 2.2 | 7.9 | -4.7 | 2 | C |
| 18 | 329 | 23.4 | 0 | C | 9.5 | -21 | 94 | -0.5 | 8.8 | -3.0 | 1 | C |
| 19 | 332 | 23.8 | 0 | C | 10.1 | -50 | 78 | 1.3 | 6.7 | -6.7 | 3 | C |
| 20 | 327 | 25.2 | 0 | C | 9.8 | -41 | 86 | 0.4 | 8.0 | -5.1 | 2 | C |
| 21 | 324 | 22.5 | 0 | C | 11.2 | -36 | 75 | 2.3 | 9.5 | -4.8 | 2 | C |
| 22 | 322 | 19.4 | 0 | C | 12.4 | -49 | 74 | 2.2 | 9.5 | -7.6 | 1 | C |
| 23 | 324 | 20.7 | 0 | C | 12.6 | -66 | 84 | 0.5 | 7.2 | -10.0 | 3 | C |
| 24 | 314 | 23.7 | 0 | C | 12.0 | -80 | 121 | -1.0 | 3.9 | -10.7 | 3 | C |

### JUN. 23, 1982 174

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 311 | 28.3 | 0 | C | 10.4 | -71 | 128 | -1.8 | 3.7 | -8.0 | 5 | C |
| 2 | 324 | 29.4 | 0 | C | 11.0 | -55 | 140 | -4.7 | 5.2 | -8.2 | 2 | C |
| 3 | 321 | 25.6 | 0 | C | 11.4 | -49 | 149 | -6.4 | 4.6 | -8.1 | 1 | C |
| 4 | 309 | 30.0 | 0 | C | 9.9 | -66 | 137 | -2.8 | 3.1 | -8.5 | 3 | C |
| 5 | 310 | 30.2 | 0 | C | 9.2 | -83 | 60 | 0.5 | 0.9 | -8.2 | 4 | C |
| 6 | 317 | 23.6 | 0 | C | 10.6 | -41 | 338 | 7.1 | -3.3 | -6.5 | 3 | C |
| 7 | 329 | 20.5 | 0 | C | 11.0 | -41 | 336 | 7.6 | -4.1 | -6.7 | 1 | C |
| 8 | 323 | 21.9 | 0 | C | 11.4 | -42 | 339 | 7.8 | -4.1 | -7.0 | 2 | C |
| 9 | 321 | 16.1 | 0 | C | 12.1 | -37 | 326 | 7.9 | -6.6 | -6.2 | 1 | C |
| 10 | 321 | 16.1 | 0 | C | 12.0 | -34 | 330 | 8.4 | -6.3 | -5.4 | 2 | C |
| 11 | 332 | 15.5 | 0 | C | 11.7 | -40 | 328 | 7.6 | -6.3 | -6.3 | 1 | C |
| 12 | 331 | 17.2 | 0 | C | 11.2 | -38 | 324 | 7.1 | -6.6 | -5.5 | 1 | C |
| 13 | 332 | 15.1 | 0 | C | 11.4 | -34 | 327 | 7.9 | -6.4 | -5.1 | 1 | C |
| 14 | 318 | 27.1 | 0 | C | 8.5 | -40 | 339 | 5.9 | -3.2 | -4.8 | 2 | C |
| 15 | 308 | 32.3 | 0 | C | 7.5 | -43 | 331 | 4.6 | -3.2 | -4.5 | 2 | C |
| 16 | 321 | 30.3 | 0 | C | 6.6 | -66 | 23 | 2.4 | 0.5 | -5.9 | 2 | C |
| 17 | 311 | 33.8 | 0 | C | 6.0 | -30 | 331 | 4.5 | -2.6 | -2.9 | 1 | C |
| 18 | | | | | | | | | | | | |
| 19 | 306 | 33.5 | 0 | C | | | | | | | | |
| 20 | 306 | 33.5 | 0 | C | 9.0 | -12 | 326 | 7.2 | -4.6 | -2.6 | 1 | C |
| 21 | 304 | 34.3 | 0 | C | 9.1 | -13 | 328 | 7.5 | -4.2 | -2.8 | 1 | C |
| 22 | 305 | 33.3 | 0 | C | 8.9 | -11 | 340 | 8.1 | -2.5 | -2.2 | 1 | C |
| 23 | 304 | 31.8 | 0 | C | 9.3 | -12 | 339 | 8.5 | -2.7 | -2.6 | 1 | C |
| 24 | 304 | 35.1 | 0 | C | 9.4 | -17 | 337 | 8.3 | -2.9 | -3.3 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 310 | 33.2 | 0 | C | | | | | | | | |
| 2 | 309 | 32.8 | 0 | C | 10.3 | -5 | 334 | 9.2 | -4.3 | -1.5 | 1 | C |
| 3 | 307 | 29.7 | 0 | C | 11.1 | -10 | 340 | 10.2 | -3.5 | -2.3 | 1 | C |
| 4 | 306 | 35.5 | 0 | C | 11.9 | -4 | 333 | 10.5 | -5.4 | -1.1 | 2 | C |
| 5 | 327 | 24.2 | 33 | J | 12.0 | 0 | 328 | 9.0 | -5.6 | 0.1 | 4 | J |
| 6 | 336 | 32.9 | 27 | J | 14.5 | 4 | 316 | 9.8 | -9.4 | 1.5 | 3 | J |
| 7 | 338 | 33.8 | 32 | J | 16.0 | 16 | 309 | 9.1 | -10.7 | 5.4 | 4 | J |
| 8 | 343 | 21.6 | 28 | J | 17.2 | 0 | 312 | 10.2 | -11.2 | 1.8 | 5 | J |
| 9 | 341 | 37.6 | 0 | C | 16.1 | -54 | 352 | 8.9 | -3.6 | -11.9 | 4 | C |
| 10 | 359 | 22.4 | 54 | J | 15.7 | -26 | 339 | 13.0 | -6.4 | -5.5 | 2 | J |
| 11 | 347 | 17.2 | 56 | J | 14.6 | -12 | 327 | 11.7 | -8.1 | -1.1 | 2 | J |
| 12 | 337 | 20.7 | 42 | J | 14.9 | -23 | 340 | 12.5 | -5.8 | -4.4 | 3 | J |
| 13 | 341 | 17.7 | 39 | J | 13.4 | -1 | 326 | 10.6 | -7.0 | 1.4 | 3 | J |
| 14 | 335 | 15.8 | 14 | J | 14.7 | 15 | 319 | 10.5 | -8.2 | 5.4 | 1 | J |
| 15 | 336 | 14.7 | 26 | J | 15.0 | 20 | 322 | 10.7 | -7.5 | 6.2 | 2 | J |
| 16 | 327 | 14.7 | 57 | J | | | | | | | | |
| 17 | 324 | 12.4 | 90 | J | | | | | | | | |
| 18 | 369 | 10.6 | 46 | J | 15.3 | 28 | 305 | 7.4 | -10.7 | 6.6 | 4 | J |
| 19 | 384 | 9.4 | 64 | J | 14.3 | 36 | 313 | 7.5 | -8.7 | 7.3 | 4 | J |
| 20 | 397 | 10.9 | 111 | J | 12.7 | 17 | 304 | 6.6 | -10.1 | 2.3 | 2 | J |
| 21 | 394 | 14.8 | 0 | C | | | | | | | | |
| 22 | 394 | 14.8 | 0 | C | 14.9 | -17 | 309 | 8.8 | -9.7 | -6.2 | 3 | C |
| 23 | 407 | 14.6 | 0 | C | 16.1 | 34 | 290 | 4.4 | -13.7 | 6.3 | 3 | C |
| 24 | 396 | 9.8 | 0 | C | 16.7 | 29 | 295 | 6.3 | -14.4 | 5.4 | 1 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 409 | 9.0 | 0 | C | 16.5 | 21 | 295 | 6.5 | -14.7 | 3.5 | 1 | C |
| 403 | 16.1 | 0 | C | 16.9 | 4 | 292 | 6.1 | -15.0 | -0.8 | 4 | C |
| 403 | 13.4 | 0 | C | 17.4 | -30 | 283 | 3.3 | -13.1 | -9.5 | 5 | C |
| 402 | 11.4 | 0 | C | 15.2 | 23 | 315 | 8.5 | -8.6 | 4.8 | 8 | C |
| 400 | 10.4 | 0 | C | 15.1 | 21 | 320 | 10.8 | -8.9 | 5.5 | 1 | C |
| 398 | 12.6 | 0 | C | 14.5 | 1 | 324 | 11.5 | -8.4 | 0.9 | 2 | C |
| 386 | 16.2 | 0 | C | 13.1 | -26 | 333 | 10.1 | -5.8 | -5.0 | 3 | C |
| 368 | 18.6 | 0 | C | 12.3 | -57 | 340 | 6.2 | -3.8 | -9.7 | 2 | C |
| 374 | 16.4 | 42 | J | 11.7 | -56 | 346 | 6.2 | -3.4 | -9.0 | 2 | J |
| 384 | 6.6 | 45 | J | 12.8 | -2 | 315 | 9.4 | -8.0 | 1.4 | 2 | J |
| 378 | 5.3 | 51 | J | 13.4 | -5 | 311 | 8.4 | -9.7 | 1.3 | 3 | J |
| 371 | 5.0 | 53 | J | 13.3 | 1 | 318 | 9.5 | -8.3 | 2.3 | 3 | J |
| 375 | 5.1 | 47 | J | 13.6 | 18 | 313 | 8.5 | -7.9 | 6.0 | 3 | J |
| 373 | 8.2 | 0 | C | 14.2 | 5 | 312 | 9.5 | -10.0 | 3.2 | 1 | C |
| 372 | 4.2 | 34 | J | 13.8 | 10 | 317 | 9.7 | -8.5 | 3.7 | 2 | J |
| 367 | 6.8 | 42 | J | 13.8 | 14 | 307 | 7.8 | -9.9 | 4.3 | 3 | J |
| 375 | 5.9 | 45 | J | 14.1 | 24 | 310 | 8.2 | -9.5 | 6.1 | 2 | J |
| 367 | 4.4 | 31 | J | 13.9 | 18 | 306 | 7.7 | -10.6 | 4.0 | 2 | J |
| 358 | 5.5 | 29 | J | 13.8 | 16 | 311 | 8.5 | -10.1 | 3.0 | 1 | J |
| 349 | 5.2 | 32 | J | 13.8 | 18 | 318 | 9.5 | -9.0 | 3.1 | 2 | J |
| 345 | 4.6 | 26 | J | 14.0 | 18 | 313 | 9.0 | -10.2 | 2.7 | 2 | J |
| 347 | 4.4 | 25 | J | 13.8 | 14 | 315 | 9.2 | -9.6 | 1.5 | 3 | J |
| 332 | 3.2 | 25 | J | 13.2 | 16 | 331 | 10.8 | -6.5 | 2.4 | 2 | J |
| 332 | 2.8 | 20 | J | 13.6 | 18 | 338 | 11.4 | -5.2 | 3.1 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 346 | 6.1 | 0 | C | | | | | | | | |
| 2 | 342 | 6.1 | 0 | C | 13.3 | 15 | 356 | 12.6 | -1.3 | 3.4 | 2 | C |
| 3 | 323 | 6.4 | 0 | C | 13.3 | 3 | 355 | 13.2 | -1.2 | 0.5 | 1 | C |
| 4 | 323 | 6.6 | 0 | C | 13.6 | -14 | 351 | 12.5 | -1.9 | -3.3 | 3 | C |
| 5 | 317 | 6.3 | 0 | C | 13.6 | -13 | 347 | 12.7 | -3.0 | -3.0 | 2 | C |
| 6 | 316 | 6.4 | 0 | C | 13.2 | -6 | 346 | 12.6 | -3.3 | -1.1 | 0 | C |
| 7 | 324 | 6.6 | 0 | C | 13.0 | -3 | 1 | 12.3 | 0.1 | -0.7 | 4 | C |
| 8 | 327 | 6.5 | 0 | C | 13.2 | -19 | 334 | 11.0 | -6.1 | -3.2 | 1 | C |
| 9 | 339 | 6.7 | 0 | C | 13.1 | -31 | 351 | 11.0 | -3.1 | -6.2 | 1 | C |
| 10 | 344 | 7.7 | 0 | C | 12.6 | -19 | 329 | 9.6 | -6.4 | -2.5 | 4 | C |
| 11 | 399 | 4.7 | 91 | J | 12.2 | -16 | 317 | 8.5 | -8.5 | -1.3 | 1 | J |
| 12 | 399 | 4.1 | 78 | J | 12.1 | -11 | 315 | 8.2 | -8.5 | -0.1 | 3 | J |
| 13 | 415 | 3.2 | 73 | J | 12.2 | 1 | 301 | 6.0 | -9.7 | 2.6 | 3 | J |
| 14 | 426 | 2.4 | 85 | J | 12.0 | -22 | 317 | 8.1 | -8.3 | -2.8 | 1 | J |
| 15 | 448 | 2.0 | 47 | J | 12.2 | -22 | 330 | 9.6 | -6.2 | -3.5 | 2 | J |
| 16 | 481 | 2.0 | 69 | J | 11.9 | -22 | 329 | 9.5 | -6.1 | -3.8 | 1 | J |
| 17 | 482 | 1.7 | 61 | J | 11.9 | -23 | 331 | 9.5 | -5.5 | -4.3 | 2 | J |
| 18 | 496 | 2.8 | 149 | L | 11.5 | -27 | 338 | 9.3 | -3.7 | -5.2 | 2 | J |
| 19 | 519 | 3.0 | 98 | J | 11.0 | -23 | 333 | 8.9 | -4.2 | -4.6 | 1 | J |
| 20 | 524 | 2.8 | 82 | J | 11.1 | -29 | 347 | 9.4 | -1.5 | -5.6 | 2 | J |
| 21 | 540 | 2.5 | 89 | J | 11.0 | -23 | 342 | 9.4 | -2.4 | -4.6 | 2 | J |
| 22 | 542 | 2.2 | 92 | J | 10.8 | -13 | 338 | 9.8 | -3.5 | -3.1 | 0 | J |
| 23 | 541 | 3.6 | 0 | C | 9.6 | -28 | 336 | 7.7 | -2.6 | -5.0 | 1 | J |
| 24 | 543 | 4.3 | 0 | C | 9.4 | -31 | 334 | 6.9 | -2.6 | -5.1 | 3 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 565 | 3.1 | 145 | J | 9.0 | -28 | 335 | 6.9 | -2.6 | -4.5 | 3 | J |
| 577 | 2.9 | 112 | J | 8.9 | -22 | 337 | 7.2 | -2.7 | -3.5 | 3 | J |
| 580 | 2.9 | 104 | J | 9.7 | -23 | 325 | 7.2 | -4.7 | -4.1 | 2 | J |
| 563 | 2.4 | 105 | J | 10.0 | -8 | 328 | 7.9 | -4.9 | -1.4 | 3 | J |
| 560 | 3.0 | 176 | J | 9.8 | -25 | 324 | 6.7 | -5.0 | -3.7 | 4 | J |
| 565 | 3.7 | 245 | J | 9.2 | -39 | 354 | 6.5 | -1.1 | -5.2 | 4 | J |
| 493 | 4.4 | 0 | C | 10.4 | -13 | 335 | 8.8 | -4.4 | -1.6 | 2 | C |
| 564 | 1.1 | 73 | J | 11.7 | -9 | 329 | 9.8 | -6.1 | -0.7 | 1 | J |
| 527 | 2.4 | 144 | J | 11.0 | -26 | 319 | 6.6 | -6.6 | -3.0 | 5 | J |
| 506 | 2.1 | 91 | J | 12.1 | -11 | 339 | 10.8 | -4.6 | -1.2 | 3 | J |
| 509 | 1.8 | 75 | J | 12.7 | 3 | 330 | 10.6 | -5.7 | 2.2 | 3 | J |
| 478 | 3.0 | 0 | C | 12.8 | -6 | 324 | 9.9 | -7.3 | 0.6 | 3 | J |
| 533 | 1.8 | 195 | J | 12.5 | -12 | 324 | 9.8 | -7.5 | -0.8 | 1 | J |
| 522 | 3.1 | 0 | C | 12.5 | 5 | 317 | 9.0 | -7.9 | 2.8 | 2 | J |
| 501 | 3.0 | 0 | C | 12.8 | 16 | 315 | 8.6 | -7.9 | 4.9 | 1 | J |
| 577 | 1.6 | 165 | J | 12.7 | 17 | 326 | 9.8 | -6.1 | 4.4 | 3 | J |
| 580 | 2.3 | 202 | J | 12.6 | 25 | 327 | 9.1 | -5.6 | 5.4 | 4 | J |
| | | | | 12.0 | 9 | 339 | 10.8 | -4.2 | 1.8 | 2 | J |
| 593 | 4.7 | 0 | C | 10.9 | -17 | 334 | 9.2 | -4.3 | -3.5 | 0 | C |
| 557 | 3.2 | 132 | J | 11.6 | -2 | 5 | 9.8 | 0.9 | -0.2 | 7 | J |
| 547 | 2.1 | 95 | J | 12.5 | 14 | 328 | 10.1 | -6.7 | 2.0 | 2 | J |
| 505 | 2.3 | 68 | J | 12.8 | 8 | 321 | 9.8 | -8.1 | 0.4 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 616 | 8.3 | 0 | C | 11.2 | -5 | 257 | -1.1 | -4.6 | -1.1 | 11 | J |
| 2 | 530 | 8.8 | 0 | C | 12.2 | -6 | 328 | 9.8 | -5.9 | -1.8 | 3 | C |
| 3 | 519 | 9.2 | 0 | C | 12.2 | -8 | 335 | 6.6 | -9.1 | -2.2 | 3 | C |
| 4 | 515 | 9.0 | 0 | C | 11.9 | -7 | 313 | 7.6 | -8.2 | -1.4 | 3 | C |
| 5 | 491 | 8.6 | 0 | C | 11.8 | -5 | 334 | 10.0 | -5.0 | -0.9 | 3 | C |
| 6 | 487 | 9.1 | 0 | C | 11.5 | 1 | 326 | 9.1 | -6.1 | 0.7 | 3 | C |
| 7 | 466 | 9.2 | 0 | C | 11.3 | -20 | 336 | 9.5 | -4.7 | -3.1 | 2 | C |
| 8 | 429 | 7.3 | 85 | J | 11.1 | -17 | 7 | 7.1 | 0.5 | -2.3 | 7 | J |
| 9 | 446 | 7.0 | 77 | J | 10.9 | -26 | 339 | 8.8 | -4.3 | -3.7 | 3 | J |
| 10 | 482 | 9.0 | 119 | J | 11.0 | -2 | 307 | 2.6 | -3.4 | 0.7 | 10 | J |
| 11 | 471 | 12.1 | 0 | C | 11.1 | 12 | 270 | -0.0 | -9.0 | 4.7 | 4 | C |
| 12 | 466 | 12.1 | 0 | C | | | | | | | | |
| 13 | 454 | 8.8 | 124 | J | 9.4 | -15 | 301 | 4.5 | -7.9 | -0.4 | 2 | J |
| 14 | 458 | 8.1 | 85 | J | 8.9 | -12 | 315 | 5.5 | -5.7 | -0.4 | 4 | J |
| 15 | | | | | | | | | | | | |
| 16 | 457 | 12.3 | 0 | C | | | | | | | | |
| 17 | 457 | 12.3 | 0 | C | 8.0 | -33 | 335 | 5.5 | -2.9 | -3.9 | 2 | C |
| 18 | 464 | 8.7 | 76 | J | 8.1 | 20 | 337 | 6.2 | -2.6 | 2.5 | 3 | J |
| 19 | 485 | 9.2 | 106 | J | 8.4 | 22 | 303 | 3.8 | -6.1 | 2.5 | 3 | J |
| 20 | 466 | 12.7 | 0 | C | 8.7 | -19 | 346 | 6.8 | -1.4 | -2.6 | 4 | C |
| 21 | 466 | 12.8 | 0 | C | 9.3 | -27 | 356 | 8.0 | 0.0 | -4.1 | 2 | C |
| 22 | 461 | 11.0 | 0 | C | 9.5 | -22 | 354 | 8.5 | -0.3 | -3.5 | 2 | C |
| 23 | 473 | 10.4 | 0 | C | 9.2 | -15 | 317 | 5.8 | -5.0 | -3.0 | 4 | J |
| 24 | 484 | 9.2 | 0 | C | 10.3 | -12 | 325 | 7.5 | -4.9 | -2.7 | 3 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 502 | 9.4 | 0 | C | 10.8 | -12 | 319 | 7.2 | -5.9 | -2.8 | 4 | C |
| 482 | 9.6 | 0 | C | 10.7 | 3 | 344 | 9.6 | -2.7 | 0.2 | 3 | C |
| 487 | 9.0 | 0 | C | | | | | | | | |
| 485 | 8.8 | 0 | C | 9.8 | 34 | 308 | 4.5 | -5.8 | 5.0 | 3 | C |
| 467 | 8.4 | 0 | C | 9.3 | 20 | 329 | 6.7 | -4.0 | 3.1 | 3 | C |
| 458 | 8.3 | 0 | C | | | | | | | | |
| 468 | 7.0 | 62 | J | 8.7 | 4 | 326 | 6.2 | -4.1 | 1.1 | 4 | J |
| 476 | 7.2 | 89 | J | 9.1 | 15 | 317 | 6.1 | -5.1 | 3.3 | 3 | J |
| 490 | 7.6 | 97 | J | 9.5 | 28 | 316 | 5.7 | -4.4 | 5.3 | 3 | J |
| 489 | 8.5 | 100 | J | 9.2 | -25 | 320 | 5.9 | -5.7 | -2.2 | 3 | J |
| 495 | 9.3 | 104 | J | 8.9 | -17 | 336 | 6.8 | -3.5 | -1.4 | 4 | J |
| 503 | 9.6 | 103 | J | 8.6 | 26 | 299 | 3.4 | -5.0 | 5.0 | 3 | J |
| 481 | 13.4 | 0 | C | 8.8 | 30 | 287 | 2.0 | -5.4 | 5.5 | 3 | C |
| 490 | 14.2 | 0 | C | 8.5 | 48 | 253 | -1.6 | -3.7 | 7.0 | 2 | C |
| 496 | 17.3 | 0 | C | 8.6 | 41 | 290 | 2.0 | -4.4 | 5.9 | 3 | C |
| 493 | 18.2 | 0 | C | 10.1 | 1 | 298 | 4.3 | -8.1 | 1.2 | 4 | C |
| 489 | 19.5 | 119 | J | 10.9 | -49 | 332 | 6.2 | -3.9 | -7.8 | 2 | J |
| 515 | 17.0 | 186 | J | 8.8 | 75 | 107 | -0.3 | 0.9 | 3.5 | 8 | J |
| 518 | 14.3 | 198 | J | 7.5 | 61 | 108 | -1.0 | 2.8 | 6.0 | 3 | J |
| 504 | 16.4 | 0 | C | 11.0 | 69 | 268 | -0.1 | -4.9 | 9.8 | 1 | J |
| 522 | 11.5 | 216 | J | 11.4 | 28 | 273 | 0.5 | -9.8 | 3.7 | 5 | J |
| 501 | 14.8 | 0 | C | 9.0 | -4 | 339 | 8.0 | -3.0 | -1.1 | 2 | C |
| 501 | 14.8 | 0 | C | 9.0 | -18 | 329 | 6.9 | -3.8 | -3.2 | 3 | C |
| 505 | 16.0 | 0 | C | | | | | | | | |

JUN. 30, 1982 181

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 569 | 7.0 | 225 | J | 8.3 | -3 | 352 | 7.4 | -1.0 | -0.5 | 4 | J |
| 2 | 577 | 10.7 | 0 | C | 9.2 | -16 | 348 | 7.7 | -1.4 | -2.4 | 4 | C |
| 3 | 568 | 9.7 | 0 | C | 10.1 | -4 | 350 | 9.7 | -1.7 | -0.8 | 2 | J |
| 4 | 584 | 9.7 | 0 | C | 10.5 | -13 | 333 | 8.8 | -4.4 | -2.2 | 2 | C |
| 5 | 637 | 9.7 | 0 | C | 11.4 | -47 | 74 | 1.7 | 5.5 | -6.9 | 6 | C |
| 6 | 609 | 9.3 | 0 | C | 11.6 | -37 | 327 | 6.5 | -4.8 | -5.5 | 5 | C |
| 7 | 619 | 6.9 | 215 | J | 10.7 | -15 | 297 | 4.3 | -8.8 | -1.2 | 4 | J |
| 8 | 598 | 7.1 | 194 | J | 10.4 | -16 | 323 | 7.5 | -6.1 | -1.5 | 3 | J |
| 9 | 590 | 6.7 | 161 | J | 9.4 | -8 | 334 | 7.7 | -4.0 | -0.3 | 4 | J |
| 10 | 613 | 6.5 | 198 | J | 9.4 | 7 | 325 | 5.9 | -3.7 | 1.9 | 6 | J |
| 11 | 608 | 6.4 | 195 | J | 8.5 | -19 | 350 | 6.1 | -1.6 | -1.7 | 5 | J |
| 12 | 605 | 6.0 | 181 | J | 8.3 | 12 | 338 | 6.8 | -2.2 | 2.3 | 3 | J |
| 13 | 598 | 6.0 | 139 | J | 8.3 | 0 | 349 | 7.8 | -1.5 | 0.4 | 2 | J |
| 14 | | | | | | | | | | | | |
| 15 | 562 | 5.8 | 0 | C | 8.1 | -5 | 345 | 7.6 | -2.2 | -0.3 | 1 | C |
| 16 | 562 | 5.8 | 0 | C | 8.3 | -8 | 326 | 6.6 | -4.6 | -0.5 | 1 | C |
| 17 | 553 | 5.3 | 0 | C | 8.3 | -6 | 331 | 7.1 | -3.9 | -0.5 | 1 | C |
| 18 | 546 | 5.3 | 0 | C | 8.4 | -11 | 315 | 5.6 | -5.6 | -1.5 | 2 | C |
| 19 | 550 | 5.0 | 0 | C | 8.1 | -9 | 316 | 5.1 | -4.9 | -1.3 | 3 | C |
| 20 | 567 | 4.9 | 0 | C | 7.5 | 2 | 349 | 7.2 | -1.5 | 0.1 | 1 | C |
| 21 | 584 | 4.7 | 0 | C | 8.0 | 8 | 323 | 5.9 | -4.5 | 0.5 | 3 | C |
| 22 | 561 | 5.2 | 0 | C | 7.7 | -15 | 331 | 5.4 | -2.7 | -2.0 | 4 | C |
| 23 | 572 | 4.2 | 129 | J | 7.3 | -47 | 14 | 4.4 | 1.8 | -4.6 | 3 | J |
| 24 | 573 | 4.5 | 97 | J | 7.6 | -28 | 3 | 5.1 | 0.6 | -2.7 | 5 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 552 | 6.4 | 0 | C | 7.9 | 7 | 327 | 6.6 | -4.4 | 0.5 | 0 | J |
| 540 | 6.7 | 0 | C | 7.2 | 1 | 344 | 6.5 | -1.8 | -0.0 | 2 | C |
| 536 | 6.5 | 0 | C | 7.4 | 2 | 351 | 6.9 | -1.0 | 0.2 | 2 | C |
| 540 | 7.6 | 0 | C | 6.6 | -12 | 319 | 3.1 | -2.7 | -0.9 | 4 | C |
| 552 | 8.5 | 0 | C | 6.7 | -10 | 291 | 2.1 | -5.5 | -0.7 | 3 | C |
| 563 | 7.7 | 85 | J | 6.4 | -34 | 309 | 2.7 | -3.6 | -2.5 | 4 | J |
| 550 | 7.8 | 143 | J | 6.8 | 9 | 352 | 4.6 | -0.5 | 0.8 | 5 | J |
| 549 | 8.4 | 122 | J | 6.8 | 27 | 320 | 3.8 | -2.6 | 3.1 | 4 | J |
| 537 | 9.1 | 157 | J | 7.5 | -26 | 354 | 5.9 | -1.3 | -2.7 | 3 | J |
| 564 | 8.5 | 120 | J | 7.4 | 13 | 300 | 3.1 | -4.8 | 2.8 | 4 | J |
| 540 | 8.7 | 151 | J | 8.0 | -18 | 348 | 6.1 | -1.8 | -1.6 | 4 | J |
| 563 | 7.8 | 140 | J | 6.7 | -5 | 355 | 4.8 | -0.5 | -0.3 | 5 | J |
| 547 | 11.6 | 0 | C | 5.3 | -9 | 304 | 2.0 | -3.1 | 0.3 | 4 | J |
| 542 | 11.1 | 0 | C | 5.3 | -5 | 301 | 2.2 | -3.7 | 0.5 | 3 | J |
| 537 | 10.8 | 0 | C | 5.5 | -28 | 15 | 4.0 | 0.6 | -2.3 | 2 | C |
| 536 | 10.2 | 0 | C | 6.0 | -16 | 44 | 3.8 | 3.5 | -2.1 | 2 | C |
| 517 | 9.7 | 0 | C | 6.2 | -4 | 18 | 5.5 | 1.7 | -0.6 | 2 | C |
| 531 | 9.3 | 136 | L | 6.1 | -9 | 8 | 5.8 | 0.8 | -0.9 | 1 | C |
| 505 | 8.7 | 0 | C | 5.6 | -13 | 327 | 3.8 | -2.5 | -1.1 | 3 | C |
| 512 | 7.5 | 0 | C | 6.2 | -31 | 341 | 4.9 | -1.4 | -3.3 | 1 | C |
| 522 | 7.2 | 0 | C | 6.4 | -29 | 344 | 5.3 | -1.2 | -3.2 | 1 | C |
| 514 | 7.3 | 0 | C | 5.5 | -32 | 304 | 2.3 | -3.0 | -3.0 | 2 | C |
| 507 | 7.1 | 0 | C | 5.2 | -10 | 312 | 3.0 | -3.2 | -1.3 | 2 | C |
| 506 | 7.1 | 0 | C | | | | | | | | |

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### JUL. 2, 1982

183

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 514 | 7.4 | 0 | C | 5.1 | 2 | 20 | 4.4 | 1.6 | 0.4 | 2 | C |
| 2 | 513 | 7.5 | 0 | C | 4.4 | -42 | 338 | 2.5 | -0.8 | -2.5 | 2 | C |
| 3 | 504 | 7.3 | 0 | C | 4.9 | 1 | 309 | 2.7 | -3.4 | -0.0 | 2 | C |
| 4 | 501 | 7.7 | 0 | C | 5.1 | -15 | 311 | 3.0 | -3.4 | -1.1 | 2 | C |
| 5 | 502 | 8.5 | 0 | C | 5.0 | -22 | 287 | 1.3 | -4.1 | -1.4 | 2 | C |
| 6 | 502 | 8.9 | 0 | C | 4.9 | -23 | 310 | 2.8 | -3.6 | -1.5 | 1 | C |
| 7 | 440 | 7.2 | 314 | L | 5.4 | -21 | 321 | 3.5 | -3.1 | -1.2 | 2 | C |
| 8 | 498 | 9.0 | 0 | C | 5.7 | -1 | 334 | 5.0 | -2.4 | 0.5 | 1 | C |
| 9 | 495 | 9.1 | 0 | C | 6.1 | 4 | 339 | 5.6 | -1.9 | 0.9 | 1 | C |
| 10 | 488 | 9.4 | 0 | C | 6.5 | -10 | 329 | 5.4 | -3.4 | -0.1 | 1 | C |
| 11 | 486 | 9.9 | 0 | C | 6.5 | -9 | 338 | 5.9 | -2.6 | -0.3 | 1 | C |
| 12 | 489 | 10.2 | 0 | C | 6.6 | -17 | 329 | 5.5 | -3.5 | -0.2 | 1 | C |
| 13 | 481 | 10.6 | 0 | C | 6.3 | -30 | 288 | 1.5 | -5.2 | -1.4 | 2 | C |
| 14 | 476 | 10.3 | 0 | C | 6.3 | -16 | 333 | 5.0 | -2.8 | -0.9 | 2 | C |
| 15 | 473 | 10.1 | 0 | C | 6.4 | -6 | 2 | 6.2 | 0.1 | -0.7 | 1 | C |
| 16 | 468 | 10.3 | 0 | C | 5.5 | -16 | 354 | 4.6 | -0.6 | -1.2 | 3 | C |
| 17 | 466 | 10.4 | 0 | C |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 453 | 12.6 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 453 | 12.6 | 0 | C | 5.8 | -25 | 337 | 4.4 | -1.6 | -2.4 | 2 | C |
| 22 | 448 | 12.7 | 0 | C | 4.7 | -31 | 294 | 1.5 | -3.0 | -2.6 | 2 | C |
| 23 | 437 | 13.3 | 0 | C | 5.4 | 6 | 344 | 5.1 | -1.5 | 0.3 | 1 | C |
| 24 | 432 | 12.4 | 0 | C | 5.3 | 1 | 347 | 5.1 | -1.2 | -0.0 | 1 | C |

### JUL. 3, 1982

184

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 432 | 12.9 | 0 | C | 5.5 | -14 | 1 | 5.3 | 0.2 | -1.3 | 1 | C |
| 2 | 423 | 13.3 | 0 | C | 5.6 | -16 | 355 | 5.3 | -0.4 | -1.5 | 1 | C |
| 3 | 435 | 14.0 | 0 | C | 5.9 | -21 | 272 | 0.1 | -3.6 | -1.5 | 4 | C |
| 4 | 431 | 13.2 | 0 | C | 6.7 | 11 | 276 | 0.3 | -2.8 | 0.6 | 6 | C |
| 5 | 425 | 12.3 | 0 | C | 5.8 | -17 | 302 | 2.6 | -4.3 | -1.2 | 3 | C |
| 6 | 422 | 12.9 | 0 | C | 6.2 | 11 | 230 | -3.4 | -4.0 | 1.5 | 2 | C |
| 7 | 421 | 13.8 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 402 | 12.3 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 402 | 12.3 | 0 | C | 5.7 | -8 | 317 | 3.9 | -3.7 | 0.2 | 2 | C |
| 10 | 411 | 12.8 | 0 | C | 5.9 | -9 | 328 | 4.5 | -2.9 | -0.0 | 2 | C |
| 11 | 402 | 12.6 | 0 | C | 5.8 | -18 | 331 | 4.7 | -3.0 | -0.9 | 1 | C |
| 12 | 402 | 11.8 | 0 | C | 5.3 | -11 | 318 | 3.0 | -2.8 | 0.0 | 3 | C |
| 13 | 396 | 11.8 | 0 | C | 5.2 | -6 | 283 | 1.1 | -4.6 | 0.8 | 2 | C |
| 14 | 385 | 12.3 | 0 | C | 4.6 | 0 | 348 | 4.4 | -0.9 | 0.2 | 1 | C |
| 15 | 400 | 11.7 | 0 | C | 4.8 | 3 | 348 | 4.4 | -0.9 | 0.4 | 1 | C |
| 16 | 395 | 11.5 | 0 | C | 4.7 | 16 | 350 | 4.4 | -0.6 | 1.3 | 1 | C |
| 17 | 395 | 11.4 | 0 | C | 4.7 | 2 | 330 | 3.9 | -2.2 | 0.4 | 1 | C |
| 18 | 390 | 11.1 | 0 | C | 4.7 | 2 | 328 | 3.9 | -2.5 | 0.3 | 0 | C |
| 19 | 391 | 10.7 | 0 | C | 4.9 | -11 | 334 | 4.3 | -2.1 | -1.0 | 0 | C |
| 20 | 391 | 10.7 | 0 | C | 5.0 | -10 | 334 | 4.4 | -2.0 | -1.0 | 1 | C |
| 21 | 391 | 10.3 | 0 | C | 5.0 | 7 | 324 | 4.0 | -2.9 | 0.3 | 1 | C |
| 22 | 393 | 9.4 | 0 | C | 4.9 | -2 | 316 | 3.5 | -3.3 | -0.6 | 1 | C |
| 23 | 394 | 8.9 | 0 | C | 4.9 | 0 | 331 | 4.2 | -2.3 | -0.3 | 1 | C |
| 24 | 389 | 9.1 | 0 | C |  |  |  |  |  |  |  |  |

### JUL. 4, 1982

185

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 8.9 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 370 | 8.8 | 0 | C | 4.4 | -21 | 321 | 3.2 | -2.5 | -1.7 | 0 | C |
| 3 | 368 | 8.7 | 0 | C | 4.4 | -10 | 320 | 3.3 | -2.7 | -0.8 | 1 | C |
| 4 | 363 | 9.1 | 0 | C | 3.8 | -7 | 297 | 1.7 | -3.3 | -0.4 | 1 | C |
| 5 | 352 | 9.7 | 0 | C | 3.9 | -6 | 275 | 0.3 | -3.5 | -0.1 | 2 | C |
| 6 | 346 | 10.1 | 0 | C | 4.0 | 26 | 286 | 1.0 | -3.2 | 2.2 | 1 | C |
| 7 | 338 | 11.1 | 0 | C | 3.0 | 5 | 276 | 0.3 | -2.8 | 0.8 | 0 | C |
| 8 | 335 | 11.5 | 0 | C | 2.4 | 30 | 250 | -0.5 | -1.2 | 1.2 | 2 | C |
| 9 | 333 | 12.1 | 0 | C | 1.7 | 24 | 194 | -0.7 | -0.1 | 0.4 | 2 | C |
| 10 | 328 | 11.9 | 0 | C | 2.6 | -20 | 273 | 0.1 | -1.5 | -0.1 | 2 | C |
| 11 | 319 | 11.2 | 0 | C | 2.1 | -66 | 198 | -0.8 | -0.8 | -1.7 | 0 | C |
| 12 | 316 | 11.1 | 0 | C | 2.6 | -58 | 256 | -0.3 | -1.9 | -1.6 | 0 | C |
| 13 | 312 | 11.8 | 0 | C | 2.3 | -49 | 176 | -1.5 | -0.4 | -1.7 | 0 | C |
| 14 | 307 | 12.2 | 0 | C | 2.4 | -42 | 161 | -1.6 | 0.1 | -1.6 | 1 | C |
| 15 | 308 | 12.5 | 0 | C | 2.5 | -33 | 182 | -2.1 | -0.4 | -1.3 | 0 | C |
| 16 | 304 | 12.1 | 0 | C | 2.6 | -21 | 167 | -2.4 | 0.4 | -1.0 | 0 | C |
| 17 | 298 | 12.3 | 0 | C | 2.7 | -18 | 168 | -2.5 | 0.4 | -0.9 | 0 | C |
| 18 | 295 | 11.8 | 0 | C | 2.7 | -20 | 168 | -2.5 | 0.5 | -1.0 | 0 | C |
| 19 | 296 | 11.1 | 0 | C | 2.7 | -10 | 166 | -2.6 | 0.7 | -0.5 | 0 | C |
| 20 | 289 | 11.7 | 0 | C | 2.2 | -54 | 176 | -0.8 | 0.1 | -1.2 | 2 | C |
| 21 | 284 | 12.4 | 0 | C | 1.8 | -60 | 169 | -0.5 | 0.2 | -0.9 | 1 | C |
| 22 | 285 | 12.1 | 0 | C | 2.2 | -44 | 173 | -1.2 | 0.3 | -1.2 | 1 | C |
| 23 | 294 | 12.2 | 0 | C | 2.5 | -22 | 170 | -2.3 | 0.5 | -0.9 | 0 | C |
| 24 | 294 | 12.4 | 0 | C | 2.5 | -22 | 154 | -2.0 | 1.1 | -0.8 | 0 | C |

### JUL. 5, 1982

186

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 286 | 13.0 | 0 | C | 2.1 | -31 | 153 | -1.6 | 0.9 | -1.0 | 0 | C |
| 2 | 281 | 13.3 | 0 | C | 2.1 | -53 | 182 | -1.0 | 0.0 | -1.4 | 1 | C |
| 3 | 281 | 14.5 | 0 | C | 1.9 | -1 | 149 | -1.5 | 0.9 | -0.0 | 1 | C |
| 4 | 283 | 15.3 | 0 | C | 2.2 | -2 | 152 | -2.0 | 1.1 | -0.1 | 0 | C |
| 5 | 283 | 16.7 | 0 | C | 2.2 | -2 | 148 | -1.9 | 1.2 | -0.2 | 0 | C |
| 6 | 287 | 19.2 | 0 | C | 2.7 | -12 | 125 | -1.4 | 2.0 | -0.8 | 1 | C |
| 7 | 297 | 21.5 | 0 | C | 4.6 | 48 | 158 | -2.8 | 1.8 | 3.1 | 0 | C |
| 8 | 297 | 21.4 | 0 | C | 5.2 | 39 | 141 | -3.1 | 3.2 | 2.5 | 1 | C |
| 9 | 289 | 23.4 | 0 | C | 5.5 | 24 | 127 | -2.9 | 4.3 | 1.0 | 1 | C |
| 10 | 285 | 25.2 | 0 | C | 5.1 | 1 | 102 | -1.0 | 4.6 | -1.3 | 1 | C |
| 11 | 290 | 25.8 | 0 | C | 5.5 | 15 | 125 | -2.9 | 4.4 | -0.0 | 1 | C |
| 12 | 289 | 26.3 | 0 | C | 6.1 | 5 | 129 | -3.9 | 4.6 | -1.0 | 0 | C |
| 13 | 297 | 39.3 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 297 | 39.3 | 0 | C | 8.9 | 53 | 155 | -4.7 | 3.9 | 6.0 | 2 | C |
| 15 | 294 | 39.9 | 0 | C | 8.6 | 3 | 126 | -5.0 | 6.7 | -1.1 | 2 | C |
| 16 | 298 | 37.7 | 0 | C | 9.9 | -2 | 120 | -4.8 | 8.3 | -1.8 | 1 | C |
| 17 | 294 | 40.2 | 0 | C | 9.5 | 1 | 129 | -5.9 | 7.3 | -0.7 | 1 | C |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | 291 | 38.5 | 0 | C | 11.2 | 23 | 135 | -7.3 | 7.2 | 4.4 | 1 | C |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 280 | 45.2 | 0 | C | 9.4 | 48 | 164 | -5.9 | 1.1 | 7.0 | 1 | C |
| 22 | 273 | 50.0 | 0 | C | 9.9 | 52 | 157 | -5.6 | 1.6 | 7.9 | 2 | C |
| 23 | 266 | 54.8 | 0 | C | 8.9 | 59 | 148 | -3.8 | 1.6 | 7.7 | 1 | C |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

### JUL. 6, 1982

187

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 293 | 31.6 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 293 | 31.8 | 0 | C | 16.3 | 76 | 180 | -3.9 | -0.1 | 15.7 | 0 | C |
| 4 | 293 | 33.5 | 0 | C | 16.3 | 71 | 171 | -5.1 | 1.4 | 15.3 | 1 | C |
| 5 | 287 | 38.6 | 0 | C | 15.6 | 72 | 192 | -4.7 | 0.3 | 14.7 | 2 | C |
| 6 | 282 | 47.5 | 0 | C | 14.1 | 57 | 216 | -6.0 | -2.6 | 12.1 | 3 | C |
| 7 | 277 | 46.9 | 0 | C | 15.5 | 47 | 217 | -7.9 | -3.8 | 11.8 | 4 | C |
| 8 | 273 | 54.2 | 0 | C | 13.2 | 14 | 295 | 5.1 | -10.0 | 5.4 | 3 | C |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 252 | 58.6 | 0 | C | 13.7 | -37 | 327 | 8.6 | -7.6 | -5.6 | 4 | C |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 410 | 33.1 | 0 | C | 17.3 | 3 | 124 | -9.1 | 13.2 | -1.7 | 5 | C |
| 17 | 410 | 33.1 | 0 | C | 16.3 | -16 | 134 | -9.3 | 9.2 | -5.0 | 8 | C |
| 18 | 422 | 31.8 | 0 | C | 17.7 | -2 | 133 | -10.7 | 11.6 | -1.4 | 7 | C |
| 19 | 382 | 26.5 | 0 | C | 20.3 | 2 | 131 | -13.2 | 15.4 | 0.6 | 1 | C |
| 20 | 389 | 20.1 | 0 | C | 21.6 | -6 | 140 | -16.1 | 13.6 | -1.4 | 4 | C |
| 21 | 458 | 13.7 | 279 | J | 21.0 | 14 | 121 | -10.1 | 16.5 | 6.2 | 5 | C |
| 22 | 455 | 13.1 | 373 | J | 21.2 | 12 | 128 | -12.3 | 15.4 | 5.9 | 4 | C |
| 23 | 439 | 12.8 | 284 | J |  |  |  |  |  |  |  |  |
| 24 | 429 | 19.3 | 0 | C | 20.9 | 14 | 119 | -9.7 | 16.7 | 6.4 | 4 | C |

### JUL. 7, 1982

188

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 435 | 21.4 | 0 | C | 18.1 | 8 | 126 | -9.2 | 12.3 | 3.0 | 7 | C |
| 2 | 446 | 26.1 | 0 | C | 18.1 | -1 | 122 | -8.3 | 13.5 | 0.3 | 6 | C |
| 3 | 442 | 26.3 | 0 | C | 19.1 | 8 | 122 | -9.3 | 14.8 | 2.3 | 5 | C |
| 4 | 435 | 27.5 | 0 | C | 19.6 | -1 | 125 | -10.1 | 14.4 | -1.0 | 6 | C |
| 5 | 436 | 26.4 | 0 | C | 19.9 | -4 | 124 | -10.3 | 15.2 | -2.7 | 4 | C |
| 6 | 444 | 20.7 | 330 | J | 18.0 | -14 | 130 | -10.9 | 12.0 | -6.0 | 4 | C |
| 7 | 460 | 27.6 | 0 | C | 17.9 | 11 | 115 | -6.7 | 14.6 | 0.0 | 4 | C |
| 8 | 464 | 19.5 | 168 | J | 15.9 | 10 | 144 | -10.0 | 7.5 | 0.3 | 8 | C |
| 9 | 468 | 16.0 | 266 | J | 14.9 | 16 | 109 | -4.3 | 12.6 | 0.0 | 5 | C |
| 10 | 573 | 7.7 | 175 | J | 9.1 | -12 | 143 | -5.3 | 3.4 | -2.5 | 5 | C |
| 11 | 528 | 8.5 | 166 | J | 8.4 | 29 | 146 | -4.4 | 3.8 | 1.8 | 6 | J |
| 12 | 529 | 8.5 | 155 | J | 8.4 | 25 | 150 | -5.0 | 3.6 | 1.6 | 5 | J |
| 13 | 541 | 7.5 | 187 | J | 8.1 | -30 | 131 | -4.0 | 3.3 | -4.7 | 4 | J |
| 14 | 552 | 7.8 | 137 | J | 8.4 | 22 | 119 | -3.1 | 6.0 | 0.9 | 5 | J |
| 15 | 534 | 8.4 | 169 | J | 8.3 | -17 | 135 | -4.9 | 4.3 | -3.3 | 4 | J |
| 16 | 536 | 8.5 | 160 | J | 8.3 | -30 | 163 | -6.2 | 1.2 | -4.0 | 4 | J |
| 17 | 547 | 8.1 | 131 | J | 8.2 | -46 | 177 | -4.7 | -0.4 | -4.9 | 5 | J |
| 18 | 542 | 8.3 | 147 | J | 8.2 | -28 | 140 | -4.6 | 3.6 | -3.4 | 5 | J |
| 19 | 538 | 8.0 | 151 | J | 7.5 | -3 | 146 | -4.8 | 3.2 | -0.3 | 5 | J |
| 20 | 545 | 7.3 | 138 | J | 7.9 | 16 | 135 | -3.8 | 3.7 | 1.7 | 6 | J |
| 21 | 530 | 7.6 | 132 | J | 8.2 | 26 | 135 | -4.6 | 4.4 | 3.5 | 4 | J |
| 22 | 550 | 7.3 | 132 | J | 8.3 | 33 | 111 | -2.2 | 5.4 | 4.6 | 4 | J |
| 23 | 575 | 7.2 | 137 | J | 7.3 | 31 | 74 | 1.6 | 5.3 | 4.1 | 2 | J |
| 24 | 551 | 7.7 | 197 | J | 7.2 | 38 | 103 | -1.2 | 4.6 | 4.4 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 539 | 6.9 | 139 | J | 7.0 | 58 | 135 | -2.6 | 2.2 | 6.0 | 1 | J |
| 2 | 529 | 9.3 | 149 | L | 7.7 | 26 | 162 | -6.2 | 1.9 | 3.3 | 2 | J |
| 3 | 515 | 7.4 | 60 | J | 7.2 | 5 | 178 | -6.8 | 0.2 | 0.6 | 2 | J |
| 4 | 533 | 9.6 | 0 | C | 7.3 | -12 | 171 | -2.9 | 0.4 | -0.7 | 6 | C |
| 5 | 520 | 9.3 | 0 | C | 8.0 | -5 | 119 | -3.4 | 6.0 | -1.2 | 3 | C |
| 6 | 501 | 8.6 | 0 | C | 8.5 | 9 | 150 | -6.5 | 3.8 | 0.6 | 3 | C |
| 7 | 492 | 8.1 | 0 | C | 8.3 | 5 | 154 | -7.1 | 3.5 | -0.1 | 2 | C |
| 8 | 499 | 7.8 | 0 | C | 8.4 | 8 | 147 | -6.7 | 4.5 | 0.0 | 2 | C |
| 9 | 496 | 7.5 | 0 | C | 8.9 | 1 | 137 | -6.0 | 5.4 | -1.4 | 3 | C |
| 10 | 510 | 6.5 | 58 | J | 8.6 | 5 | 129 | -5.2 | 6.3 | -1.3 | 2 | J |
| 11 | 520 | 7.2 | 121 | J | 8.0 | 0 | 129 | -4.3 | 5.0 | -1.7 | 4 | J |
| 12 | 527 | 7.8 | 125 | J | 7.7 | 8 | 133 | -4.4 | 4.7 | -0.7 | 4 | J |
| 13 | 533 | 8.4 | 153 | J | 7.9 | 16 | 128 | -4.3 | 5.8 | 0.2 | 3 | J |
| 14 | 545 | 9.0 | 131 | J | 7.8 | 21 | 108 | -2.0 | 6.6 | 0.6 | 4 | J |
| 15 | 521 | 11.8 | 0 | C | 7.8 | 19 | 133 | -4.3 | 5.0 | 1.0 | 4 | J |
| 16 | 529 | 8.5 | 109 | J | 8.0 | 3 | 131 | -4.1 | 4.7 | -0.6 | 5 | J |
| 17 | 523 | 8.1 | 113 | J | 8.1 | -28 | 158 | -5.2 | 1.7 | -3.3 | 5 | J |
| 18 | 526 | 6.7 | 144 | J | 8.5 | 19 | 141 | -5.5 | 4.6 | 2.1 | 4 | J |
| 19 | 544 | 6.7 | 184 | J | 7.8 | 27 | 126 | -3.7 | 5.1 | 3.1 | 4 | J |
| 20 | 516 | 6.0 | 70 | J | 8.0 | 11 | 139 | -5.7 | 4.9 | 1.6 | 2 | J |
| 21 | 547 | 5.7 | 173 | J | 8.4 | -12 | 131 | -4.6 | 5.4 | -1.1 | 4 | J |
| 22 | 562 | 5.7 | 237 | J | 8.3 | 5 | 105 | -1.8 | 6.5 | 1.2 | 5 | J |
| 23 | 558 | 6.0 | 218 | J | 7.9 | 2 | 112 | -2.7 | 6.5 | 0.9 | 3 | J |
| 24 | 543 | 5.6 | 193 | J | 7.6 | -39 | 175 | -5.5 | 0.9 | -4.4 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 543 | 5.5 | 194 | J | 7.8 | -14 | 155 | -5.7 | 2.8 | -1.4 | 4 | J |
| 2 | 540 | 5.7 | 198 | J | 7.3 | 6 | 144 | -4.8 | 3.5 | 0.7 | 4 | J |
| 3 | 550 | 5.7 | 195 | J | 6.6 | 7 | 123 | -2.7 | 4.2 | 0.6 | 4 | J |
| 4 | 545 | 5.4 | 169 | J | 6.3 | 4 | 141 | -4.6 | 3.7 | 0.2 | 2 | J |
| 5 | 517 | 7.7 | 0 | C | 7.0 | -11 | 145 | -5.2 | 3.5 | -1.7 | 2 | C |
| 6 | 513 | 7.5 | 0 | C | 7.4 | 8 | 158 | -6.0 | 2.6 | 0.5 | 3 | C |
| 7 | 542 | 5.2 | 160 | J | 7.1 | 15 | 105 | -1.7 | 6.5 | 0.4 | 2 | J |
| 8 | 524 | 5.2 | 124 | J | 7.0 | -8 | 141 | -3.3 | 2.4 | -1.3 | 6 | J |
| 9 | 505 | 4.6 | 89 | J | 6.8 | 1 | 136 | -4.2 | 3.9 | -1.1 | 3 | J |
| 10 | 505 | 4.7 | 97 | J | 7.0 | 8 | 133 | -4.2 | 4.5 | -0.6 | 3 | J |
| 11 | 499 | 4.9 | 113 | J | 7.5 | 3 | 160 | -5.9 | 2.1 | -0.4 | 4 | J |
| 12 | 491 | 4.7 | 83 | J | 7.6 | 2 | 137 | -5.4 | 4.8 | -1.4 | 2 | J |
| 13 | 497 | 4.7 | 77 | J | 7.6 | 2 | 127 | -4.5 | 5.7 | -1.7 | 2 | J |
| 14 | 491 | 5.2 | 113 | J | 7.6 | 5 | 126 | -4.5 | 6.0 | -1.2 | 0 | J |
| 15 | 481 | 6.1 | 0 | C | 8.1 | 9 | 121 | -4.1 | 6.8 | -0.5 | 1 | C |
| 16 | 439 | 6.1 | 0 | C | 7.9 | -4 | 155 | -6.5 | 2.9 | -1.1 | 2 | C |
| 17 | 420 | 6.0 | 0 | C | 7.9 | -9 | 150 | -6.6 | 3.5 | -1.8 | 2 | C |
| 18 | 461 | 5.9 | 0 | C | 8.1 | 0 | 167 | -7.5 | 1.7 | -0.1 | 2 | C |
| 19 | 434 | 6.0 | 0 | C | 8.2 | -13 | 162 | -7.5 | 2.4 | -1.9 | 1 | C |
| 20 | 440 | 6.0 | 0 | C | 8.4 | -5 | 153 | -7.4 | 3.7 | -0.7 | 1 | C |
| 21 | 447 | 5.9 | 0 | C | 8.6 | 3 | 138 | -6.1 | 5.5 | 0.8 | 2 | C |
| 22 | 449 | 5.7 | 0 | C | 8.7 | 17 | 127 | -4.6 | 5.9 | 2.9 | 3 | C |
| 23 | 452 | 6.0 | 0 | C | 8.7 | 5 | 139 | -6.4 | 5.4 | 1.2 | 0 | C |
| 24 | 449 | 6.0 | 0 | C |  |  |  |  |  |  |  |  |

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JUL. 10, 1982 191

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 483 | 4.9 | 46 | J | 8.9 | -8 | 117 | -3.0 | 5.9 | -0.6 | 6 | J |
| 2 | 446 | 4.1 | 45 | J | 8.8 | 19 | 158 | -7.0 | 2.8 | 2.7 | 4 | J |
| 3 | 440 | 4.4 | 38 | J | 9.0 | -2 | 144 | -6.6 | 4.8 | -0.4 | 3 | J |
| 4 | 436 | 4.3 | 33 | J | 9.2 | -13 | 145 | -7.1 | 4.8 | -2.3 | 2 | J |
| 5 | 434 | 5.0 | 40 | J | 9.0 | -27 | 152 | -6.9 | 3.2 | -4.4 | 2 | J |
| 6 | 424 | 5.8 | 39 | J | 8.8 | -10 | 147 | -7.1 | 4.3 | -2.3 | 2 | J |
| 7 | 414 | 7.9 | 0 | C | 9.4 | 1 | 146 | -7.6 | 5.1 | -0.9 | 1 | C |
| 8 | 424 | 11.6 | 0 | C | 8.5 | -9 | 140 | -6.0 | 4.6 | -2.5 | 2 | C |
| 9 | 431 | 13.2 | 0 | C | 8.0 | 4 | 135 | -4.8 | 4.8 | -1.0 | 4 | C |
| 10 | 432 | 13.0 | 0 | C | 8.7 | 10 | 147 | -7.0 | 4.8 | -0.1 | 2 | C |
| 11 | 438 | 9.5 | 80 | J | 9.6 | -10 | 140 | -7.2 | 5.1 | -3.6 | 2 | J |
| 12 | 469 | 10.0 | 53 | J | 10.0 | -6 | 109 | -3.1 | 8.1 | -4.0 | 3 | J |
| 13 | 441 | 13.4 | 0 | C | 10.3 | -1 | 110 | -3.5 | 8.9 | -3.3 | 2 | J |
| 14 | 454 | 14.2 | 0 | C | 9.1 | 63 | 173 | -3.1 | 2.2 | 5.8 | 5 | C |
| 15 | 452 | 14.9 | 0 | C | 9.3 | 26 | 111 | -2.1 | 6.0 | 1.3 | 6 | C |
| 16 | 432 | 14.6 | 0 | C | 9.5 | 20 | 106 | -1.8 | 6.3 | 0.9 | 6 | C |
| 17 | 420 | 11.3 | 76 | J | 8.6 | 27 | 135 | -5.0 | 5.5 | 2.8 | 3 | J |
| 18 | 443 | 9.6 | 63 | J | 9.2 | 45 | 116 | -2.0 | 4.5 | 4.1 | 7 | J |
| 19 | 432 | 7.8 | 58 | J | 10.2 | -1 | 145 | -8.3 | 5.8 | -0.4 | 2 | J |
| 20 | 427 | 8.0 | 65 | J | 10.2 | -5 | 140 | -7.6 | 6.4 | -0.8 | 2 | J |
| 21 | 417 | 8.2 | 51 | J | 10.4 | 13 | 156 | -8.8 | 3.8 | 2.4 | 3 | J |
| 22 | 404 | 7.8 | 49 | J | 10.7 | 10 | 154 | -9.1 | 4.3 | 2.1 | 3 | J |
| 23 | 382 | 9.0 | 35 | J | 10.4 | 9 | 176 | -10.0 | 0.6 | 1.6 | 2 | J |
| 24 | 385 | 10.2 | 31 | J | 10.5 | 10 | 216 | -7.6 | -5.7 | 1.3 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 503 | 11.6 | 129 | J | 12.2 | 4 | 138 | -8.5 | 7.6 | 1.1 | 4 | J |
| 2 | 498 | 11.1 | 120 | J | 11.5 | -12 | 133 | -7.4 | 8.0 | -2.2 | 3 | J |
| 3 | 487 | 10.2 | 135 | J | 10.1 | -13 | 138 | -7.2 | 6.4 | -2.4 | 2 | J |
| 4 | 491 | 9.5 | 142 | J | 9.6 | -14 | 134 | -6.3 | 6.4 | -2.8 | 2 | J |
| 5 | 479 | 9.8 | 211 | J | 8.4 | -1 | 151 | -7.0 | 3.8 | -0.7 | 2 | J |
| 6 | 467 | 11.3 | 153 | J | 7.7 | 27 | 147 | -5.6 | 4.2 | 2.7 | 2 | J |
| 7 | 467 | 12.2 | 124 | J | 7.6 | 54 | 174 | -4.0 | 1.7 | 5.3 | 3 | J |
| 8 | 483 | 11.8 | 155 | J | 7.5 | 53 | 169 | -4.1 | 2.3 | 5.1 | 3 | J |
| 9 | 484 | 9.8 | 202 | J | 8.0 | 24 | 134 | -4.7 | 5.6 | 1.3 | 3 | J |
| 10 | 502 | 9.4 | 134 | J | 7.3 | -12 | 106 | -1.8 | 5.5 | -3.5 | 3 | J |
| 11 | 502 | 11.3 | 124 | J | 7.5 | -12 | 79 | 1.0 | 4.6 | -3.0 | 5 | J |
| 12 | 509 | 12.1 | 99 | J | 8.1 | -63 | 49 | 2.0 | 0.0 | -6.4 | 5 | J |
| 13 | 486 | 16.3 | 0 | C | 10.3 | -34 | 83 | 0.9 | 5.1 | -7.1 | 5 | C |
| 14 | 492 | 17.0 | 0 | C | 11.0 | -79 | 41 | 1.6 | -2.0 | -10.6 | 1 | C |
| 15 | 482 | 14.3 | 0 | C | | | | | | | | |
| 16 | 495 | 16.3 | 0 | C | 12.2 | -64 | 321 | 3.6 | -4.8 | -8.4 | 6 | C |
| 17 | 481 | 18.1 | 0 | C | 10.4 | -45 | 288 | 1.8 | -6.6 | -5.0 | 5 | C |
| 18 | 480 | 18.0 | 0 | C | 9.3 | -86 | 131 | -0.3 | -0.5 | -8.5 | 3 | C |
| 19 | 466 | 18.1 | 0 | C | 9.7 | -53 | 156 | -4.8 | 1.9 | -7.0 | 3 | C |
| 20 | 464 | 17.7 | 0 | C | 10.0 | -36 | 182 | -7.2 | -0.2 | -5.2 | 3 | C |
| 21 | 472 | 11.0 | 100 | J | 11.4 | 23 | 241 | -5.0 | -9.1 | 4.0 | 3 | J |
| 22 | 452 | 14.5 | 0 | C | 9.7 | 5 | 230 | -6.0 | -7.1 | 0.4 | 3 | C |
| 23 | 469 | 10.1 | 109 | J | 8.0 | -9 | 230 | -3.9 | -4.6 | -1.3 | 5 | J |
| 24 | 475 | 9.3 | 79 | J | 9.0 | -14 | 237 | -4.2 | -6.3 | -2.3 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 44.3 | -82 | 9 | 1.3 | 0.5 | -9.6 | 41 | C |
| 2 | 986 | 20.5 | 0 | C | 24.7 | 1 | 132 | -14.7 | 16.3 | 0.4 | 13 | C |
| 3 | 986 | 20.5 | 0 | C | 17.7 | -33 | 182 | -14.7 | -0.9 | -9.6 | 1 | C |
| 4 | | | | | | | | | | | | |
| 5 | 905 | 14.6 | 247 | J | | | | | | | | |
| 6 | 715 | 4.7 | 776 | J | | | | | | | | |
| 7 | 792 | 6.9 | 440 | J | 16.7 | -33 | 242 | -6.6 | -14.1 | -5.7 | 1 | C |
| 8 | 764 | 9.2 | 1325 | J | 17.2 | -32 | 229 | -8.9 | -12.2 | -5.2 | 6 | C |
| 9 | 835 | 6.0 | 0 | C | 17.6 | -18 | 242 | -7.3 | -14.7 | -0.3 | 6 | C |
| 10 | 792 | 5.3 | 0 | C | 16.4 | -17 | 262 | -2.1 | -16.1 | 1.0 | 2 | C |
| 11 | 800 | 4.7 | 0 | C | 15.5 | -5 | 277 | 1.8 | -14.4 | 4.2 | 3 | C |
| 12 | 814 | 5.3 | 0 | C | 14.4 | -10 | 274 | 0.9 | -13.8 | 2.8 | 3 | C |
| 13 | 660 | 5.2 | 0 | C | 13.1 | -1 | 279 | 2.1 | -12.2 | 4.2 | 1 | C |
| 14 | 660 | 5.2 | 0 | C | 13.0 | 2 | 281 | 2.5 | -11.8 | 4.5 | 2 | C |
| 15 | 701 | 6.3 | 0 | C | 13.2 | 3 | 286 | 3.6 | -11.9 | 4.3 | 1 | C |
| 16 | 802 | 6.1 | 0 | C | 12.5 | -8 | 264 | -1.1 | -10.8 | 1.0 | 6 | C |
| 17 | 790 | 9.1 | 0 | C | 13.9 | 24 | 302 | 6.6 | -9.3 | 7.3 | 2 | C |
| 18 | 827 | 11.5 | 0 | C | 14.3 | 2 | 280 | 2.6 | -13.7 | 2.0 | 2 | C |
| 19 | 823 | 14.7 | 0 | C | 12.8 | 0 | 276 | 1.3 | -12.6 | 0.8 | 1 | C |
| 20 | 754 | 11.2 | 0 | C | 13.3 | -6 | 243 | -5.1 | -10.0 | -1.1 | 7 | C |
| 21 | 624 | 5.1 | 0 | C | | | | | | | | |
| 22 | 624 | 5.1 | 0 | C | 12.8 | -14 | 210 | -10.8 | -6.1 | -3.4 | 0 | C |
| 23 | 563 | 5.9 | 0 | C | 12.7 | -17 | 210 | -10.6 | -5.8 | -4.0 | 1 | C |
| 24 | 590 | 7.1 | 0 | C | 12.3 | -17 | 207 | -10.4 | -5.2 | -3.9 | 1 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 514 | 3.7 | 0 | C | 10.4 | -6 | 160 | -9.6 | 3.4 | -1.0 | 2 | C |
| 2 | | | | | | | | | | | | |
| 3 | 514 | 4.3 | 0 | C | 11.4 | -4 | 174 | -10.5 | 1.0 | -0.9 | 4 | C |
| 4 | 503 | 4.2 | 0 | C | 11.2 | -13 | 187 | -10.7 | -1.7 | -2.4 | 1 | C |
| 5 | 525 | 4.5 | 0 | C | | | | | | | | |
| 6 | 525 | 4.5 | 0 | C | 11.7 | -7 | 150 | -9.0 | 4.9 | -2.3 | 4 | C |
| 7 | | | | | | | | | | | | |
| 8 | 540 | 4.2 | 0 | C | 10.6 | -16 | 172 | -9.8 | 0.5 | -3.2 | 2 | C |
| 9 | 516 | 4.1 | 0 | C | 10.5 | -13 | 163 | -9.6 | 1.9 | -3.2 | 1 | C |
| 10 | | | | | | | | | | | | |
| 11 | 533 | 7.6 | 0 | C | 16.5 | -4 | 179 | -16.1 | -0.1 | -1.1 | 3 | C |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 491 | 9.4 | 0 | C | 15.8 | 6 | 149 | -11.4 | 6.9 | -0.3 | 10 | C |
| 17 | 687 | 9.6 | 0 | C | 23.8 | 55 | 144 | -9.6 | 10.3 | 15.7 | 9 | C |
| 18 | 687 | 9.6 | 0 | C | 19.9 | 80 | 201 | -3.0 | 1.2 | 18.3 | 7 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 778 | 17.5 | 0 | C | | | | | | | | |
| 22 | 778 | 17.5 | 0 | C | 11.8 | -6 | 272 | 0.3 | -10.4 | -1.5 | 6 | C |
| 23 | 844 | 33.3 | 0 | C | 10.5 | 40 | 292 | 1.8 | -4.7 | 4.0 | 8 | C |
| 24 | 834 | 30.8 | 0 | C | 13.9 | -16 | 355 | 10.2 | -0.9 | -2.9 | 8 | C |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 373 | 8.1 | 31 | J | 10.2 | 13 | 189 | -9.1 | -1.6 | 2.1 | 4 | J |
| 374 | 9.5 | 53 | J | 10.9 | 18 | 189 | -10.0 | -1.6 | 3.2 | 2 | J |
| 390 | 18.8 | 40 | J | 9.4 | 18 | 231 | -4.1 | -5.0 | 2.3 | 6 | J |
| 370 | 19.4 | 33 | J | 8.3 | 0 | 211 | -6.4 | -3.9 | 0.3 | 4 | J |
| 360 | 17.2 | 44 | J | 7.1 | -12 | 170 | -6.6 | 1.0 | -1.5 | 2 | J |
| 367 | 18.1 | 51 | J | 8.4 | 0 | 158 | -7.1 | 2.8 | -0.5 | 3 | J |
| 387 | 18.2 | 32 | J | 9.3 | -2 | 229 | -4.9 | -5.5 | 1.0 | 6 | J |
| 406 | 21.3 | 25 | J | 10.3 | 20 | 268 | -0.3 | -8.3 | 6.0 | 1 | J |
| 404 | 22.2 | 46 | J | 9.2 | 14 | 272 | 0.3 | -7.8 | 4.9 | 1 | J |
| 392 | 31.6 | 0 | C | 9.3 | -50 | 152 | -2.3 | 0.1 | -3.3 | 8 | C |
| 392 | 38.0 | 0 | C | 14.5 | -24 | 88 | 0.2 | 7.2 | -6.9 | 9 | C |
| 427 | 73.3 | 0 | C | 22.9 | 33 | 152 | -14.8 | 11.1 | 7.5 | 9 | C |
| 568 | 46.4 | 0 | C | 15.8 | 12 | 110 | -4.4 | 12.5 | -1.4 | 7 | C |
| 630 | 32.6 | 0 | C | 16.4 | -36 | 164 | -7.9 | 0.3 | -6.3 | 12 | C |
| 600 | 26.0 | 0 | C | 17.1 | -4 | 141 | -11.4 | 8.7 | -3.6 | 8 | C |
| 554 | 16.7 | 334 | J | 19.3 | 43 | 148 | -11.0 | 9.4 | 10.4 | 7 | J |
| 537 | 17.9 | 252 | J | 18.4 | -1 | 127 | -9.9 | 13.0 | -2.3 | 8 | J |
| 575 | 16.7 | 268 | J | 18.2 | 14 | 91 | -0.3 | 17.7 | 2.7 | 3 | J |
| 564 | 14.6 | 294 | J | 17.5 | -4 | 92 | -0.6 | 17.2 | -1.9 | 2 | J |
| 545 | 13.6 | 259 | J | 17.0 | -7 | 94 | -1.1 | 16.0 | -1.8 | 5 | J |
| 539 | 14.7 | 254 | J | 15.5 | -7 | 107 | -4.0 | 13.2 | -1.1 | 7 | J |
| 536 | 14.5 | 253 | J | 14.7 | 5 | 107 | -4.0 | 12.9 | 2.0 | 5 | J |
| 533 | 15.1 | 212 | J | 13.0 | 5 | 104 | -2.9 | 11.7 | 1.9 | 4 | J |
| 504 | 13.1 | 146 | J | 12.4 | 6 | 137 | -8.4 | 7.7 | 1.7 | 4 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 463 | 9.3 | 84 | J | 8.0 | -16 | 224 | -5.1 | -4.9 | -2.2 | 3 | J |
| 458 | 9.4 | 78 | J | 8.6 | -22 | 230 | -5.0 | -6.0 | -3.2 | 2 | J |
| 467 | 10.0 | 91 | J | 8.4 | -55 | 204 | -3.5 | -1.7 | -5.3 | 5 | J |
| 485 | 11.3 | 84 | J | 9.0 | -59 | 120 | -2.0 | 2.8 | -6.8 | 5 | J |
| 481 | 11.4 | 93 | J | 9.4 | -6 | 137 | -4.4 | 4.0 | -1.2 | 7 | J |
| 493 | 12.2 | 104 | J | 9.1 | -69 | 139 | -2.1 | 0.4 | -7.4 | 5 | J |
| 507 | 13.0 | 109 | J | 8.0 | -6 | 118 | -2.5 | 4.5 | -1.7 | 6 | J |
| 500 | 13.0 | 91 | J | 9.2 | -46 | 196 | -4.9 | -2.9 | -4.7 | 5 | J |
| 504 | 11.5 | 99 | J | 8.7 | -18 | 133 | -4.3 | 3.8 | -3.5 | 5 | J |
| 511 | 10.8 | 151 | J | 6.4 | -12 | 139 | -3.5 | 2.5 | -2.0 | 4 | J |
| 517 | 11.6 | 162 | J | 5.9 | -62 | 190 | -2.0 | -1.7 | -3.5 | 4 | J |
| 519 | 10.8 | 169 | J | 6.3 | -35 | 133 | -2.0 | 1.3 | -2.7 | 5 | J |
| 490 | 15.1 | 0 | C | 6.6 | 6 | 152 | -5.3 | 2.8 | -0.4 | 2 | C |
| 534 | 7.7 | 209 | J | 7.4 | -13 | 129 | -3.7 | 3.9 | -2.8 | 4 | J |
| 540 | 7.4 | 182 | J | 9.2 | 18 | 154 | -6.1 | 3.5 | 1.2 | 5 | C |
| 492 | 10.0 | 0 | C | 9.3 | 4 | 152 | -6.0 | 3.2 | -0.3 | 5 | C |
| 590 | 5.3 | 115 | J | 7.6 | 45 | 166 | -3.8 | 1.6 | 3.7 | 4 | C |
| 422 | 12.3 | 0 | C | 8.4 | -46 | 100 | -1.0 | 4.9 | -6.5 | 0 | C |

JUL. 15, 1982 196

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 574 | 6.6 | 0 | C | 11.3 | -17 | 210 | -9.4 | -5.3 | -3.5 | 1 | C |
| 555 | 6.3 | 0 | C | 10.5 | -16 | 209 | -8.8 | -4.9 | -2.9 | 1 | C |
| 556 | 6.7 | 0 | C | 10.3 | -13 | 208 | -8.9 | -4.8 | -2.0 | 1 | C |
| 575 | 6.2 | 0 | C | 10.4 | -13 | 223 | -7.4 | -7.0 | -1.6 | 1 | C |
| 564 | 6.3 | 0 | C | 10.9 | -17 | 212 | -8.7 | -5.9 | -2.3 | 1 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 503 | 5.6 | 0 | C | 10.9 | -16 | 192 | -10.1 | -3.0 | -2.2 | 1 | C |
| 613 | 4.3 | 0 | C | 11.7 | -20 | 195 | -10.5 | -4.0 | -2.8 | 2 | C |
| 529 | 5.0 | 0 | C | 11.7 | -25 | 185 | -10.5 | -2.6 | -4.3 | 1 | C |
| 565 | 4.2 | 0 | C | 11.4 | -26 | 181 | -10.1 | -2.0 | -4.5 | 1 | C |
| 584 | 3.9 | 0 | C | 11.0 | -21 | 190 | -10.0 | -3.1 | -2.9 | 2 | C |
| 559 | 3.8 | 0 | C | 11.1 | -15 | 173 | -10.4 | 0.1 | -3.1 | 2 | C |
| 577 | 4.0 | 0 | C | 11.6 | -13 | 180 | -11.2 | -1.0 | -2.5 | 1 | C |
| 546 | 4.1 | 0 | C | 12.0 | -9 | 168 | -11.4 | 1.8 | -2.5 | 2 | C |
| | | | | | | | | | | | |
| 568 | 4.2 | 0 | C | | | | | | | | |
| 568 | 4.2 | 0 | C | 12.5 | -19 | 179 | -11.8 | -0.4 | -3.9 | 1 | C |
| 538 | 4.0 | 0 | C | 11.7 | -10 | 179 | -11.3 | 0.0 | -1.9 | 2 | C |
| 536 | 4.1 | 0 | C | 11.7 | -4 | 201 | -10.7 | -4.2 | -0.7 | 2 | C |
| 545 | 4.0 | 0 | C | 10.7 | 1 | 199 | -9.8 | -3.4 | 0.0 | 2 | C |
| 540 | 3.8 | 0 | C | 10.6 | -16 | 193 | -9.7 | -2.2 | -3.0 | 1 | C |

JUL. 17, 1982 198

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 805 | 14.7 | 0 | C | 16.1 | -8 | 340 | 14.5 | -5.3 | -2.3 | 4 | C |
| 785 | 9.1 | 0 | C | 15.3 | -1 | 348 | 14.6 | -3.0 | -0.2 | 2 | C |
| 744 | 7.4 | 0 | C | 13.1 | 14 | 21 | 10.6 | 4.2 | 2.6 | 6 | C |
| 694 | 7.3 | 0 | C | 10.6 | 24 | 15 | 9.0 | 2.9 | 3.9 | 2 | C |
| 657 | 6.9 | 0 | C | 10.4 | 14 | 27 | 8.8 | 4.9 | 1.6 | 1 | C |
| 646 | 7.1 | 0 | C | 9.8 | 13 | 21 | 8.9 | 3.8 | 1.5 | 1 | C |
| 636 | 7.6 | 0 | C | 9.6 | 35 | 19 | 7.4 | 3.9 | 4.6 | 1 | C |
| 607 | 7.3 | 0 | C | 9.6 | 20 | 16 | 8.5 | 3.4 | 2.4 | 1 | C |
| 620 | 8.3 | 0 | C | 9.2 | 28 | 16 | 7.7 | 3.5 | 3.3 | 1 | C |
| 613 | 8.4 | 0 | C | 9.1 | 29 | 14 | 7.7 | 3.4 | 3.4 | 1 | C |
| 637 | 10.5 | 0 | C | 8.3 | 30 | 11 | 6.9 | 2.8 | 3.3 | 1 | C |
| 647 | 11.0 | 0 | C | 7.5 | 41 | 358 | 5.5 | 1.6 | 4.4 | 1 | C |
| 529 | 3.6 | 0 | C | 9.0 | -17 | 195 | -8.3 | -3.0 | -1.6 | 0 | C |
| 581 | 2.6 | 0 | C | 9.2 | -11 | 185 | -9.0 | -1.3 | -1.4 | 1 | C |
| 602 | 2.4 | 0 | C | 9.6 | -12 | 184 | -9.3 | -1.2 | -1.6 | 1 | C |
| 563 | 2.2 | 0 | C | 9.5 | 0 | 177 | -9.5 | 0.4 | -0.1 | 1 | C |
| 565 | 2.4 | 0 | C | 9.6 | 2 | 172 | -9.5 | 1.4 | 0.1 | 1 | C |
| 575 | 2.2 | 0 | C | 9.7 | -3 | 173 | -9.6 | 1.1 | -0.7 | 1 | C |
| | | | | | | | | | | | |
| 512 | 3.0 | 0 | C | 9.8 | -5 | 173 | -9.7 | 1.2 | -0.9 | 0 | C |
| 517 | 2.9 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 489 | 2.4 | 0 | C | 9.3 | -39 | 189 | -6.9 | -1.0 | -5.7 | 2 | C |

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OF POOR QUALITY

07/18/82 – 07/25/82

JUL. 18, 1982 199

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 489 | 2.4 | 0 | C | 9.4 | -31 | 164 | -7.7 | 2.2 | -4.8 | 0 | C |
| 2 | 447 | 4.3 | 0 | C | 9.6 | -14 | 171 | -8.9 | 1.3 | -2.2 | 1 | C |
| 3 | 483 | 3.9 | 0 | C | 9.4 | -10 | 188 | -8.4 | -1.3 | -1.4 | 3 | C |
| 4 | 473 | 4.5 | 0 | C | 9.0 | -24 | 175 | -7.7 | 0.3 | -3.5 | 2 | C |
| 5 | 472 | 4.2 | 0 | C | 8.5 | -16 | 187 | -7.9 | -1.4 | -2.1 | 1 | C |
| 6 | 466 | 4.4 | 0 | C | 8.4 | 14 | 185 | -8.0 | -0.2 | 2.0 | 1 | C |
| 7 | 469 | 5.4 | 0 | C | 10.8 | 23 | 189 | -9.4 | -0.4 | 4.3 | 3 | C |
| 8 | 461 | 5.2 | 0 | C | 11.4 | 3 | 169 | -10.9 | 2.1 | -0.2 | 2 | C |
| 9 | 477 | 5.0 | 0 | C | 11.1 | -13 | 176 | -10.1 | -0.1 | -2.5 | 3 | C |
| 10 | 486 | 5.0 | 0 | C | 12.2 | -15 | 161 | -10.2 | 2.2 | -4.0 | 5 | C |
| 11 | 540 | 5.1 | 0 | C | 14.0 | 4 | 126 | -7.3 | 9.7 | -3.1 | 5 | C |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 537 | 4.5 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 538 | 5.5 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 538 | 5.5 | 0 | C | 11.6 | 26 | 131 | -5.6 | 7.6 | 1.9 | 6 | C |
| 16 | 520 | 2.9 | 0 | C | 12.6 | 10 | 143 | -9.8 | 7.7 | 0.2 | 1 | C |
| 17 | 512 | 3.0 | 0 | C | 12.1 | -1 | 147 | -10.1 | 6.3 | -1.4 | 1 | C |
| 18 | 536 | 6.8 | 0 | C | 10.9 | -16 | 158 | -9.5 | 3.3 | -3.5 | 2 | C |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 507 | 5.3 | 0 | C | 8.6 | 9 | 151 | -7.4 | 4.2 | 1.1 | 1 | C |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 456 | 5.0 | 0 | C | 10.5 | -2 | 150 | -9.1 | 5.3 | -0.3 | 0 | C |
| 23 | 456 | 5.0 | 0 | C | 11.2 | 1 | 144 | -8.9 | 6.4 | 0.4 | 2 | C |
| 24 | 498 | 6.1 | 0 | C | 12.6 | 2 | 140 | -9.5 | 8.0 | 0.6 | 2 | C |

JUL. 19, 1982 200

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 493 | 7.0 | 0 | C | 13.6 | -7 | 139 | -9.9 | 8.7 | -1.7 | 2 | C |
| 2 | 501 | 9.0 | 0 | C | 13.9 | -11 | 140 | -10.3 | 8.4 | -2.9 | 2 | C |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 469 | 6.2 | 0 | C | 13.4 | -4 | 150 | -11.6 | 6.5 | -1.7 | 1 | C |
| 5 | 464 | 4.7 | 0 | C | 12.4 | 7 | 154 | -11.0 | 5.5 | 0.6 | 1 | C |
| 6 | 467 | 5.2 | 0 | C | 11.3 | 20 | 156 | -9.6 | 5.0 | 2.7 | 1 | C |
| 7 | 507 | 5.2 | 0 | C | 10.0 | 42 | 144 | -5.0 | 5.1 | 4.4 | 4 | C |
| 8 | 504 | 6.2 | 0 | C | 11.5 | 36 | 164 | -8.2 | 4.2 | 5.2 | 4 | C |
| 9 | 542 | 8.6 | 0 | C | 10.6 | 60 | 142 | -3.5 | 5.3 | 6.3 | 5 | C |
| 10 | 557 | 6.6 | 0 | C | 11.6 | 64 | 85 | 0.4 | 8.2 | 7.3 | 3 | C |
| 11 | 549 | 6.2 | 0 | C | 11.3 | 50 | 84 | 0.8 | 9.5 | 4.8 | 2 | C |
| 12 | 525 | 6.8 | 0 | C | 10.7 | -28 | 155 | -8.5 | 1.7 | -6.1 | 1 | C |
| 13 | 554 | 8.7 | 0 | C | 10.8 | -6 | 164 | -9.8 | 2.3 | -2.1 | 3 | C |
| 14 | 578 | 11.7 | 0 | C | 9.4 | 35 | 127 | -3.6 | 5.9 | 2.1 | 6 | C |
| 15 | 586 | 16.8 | 0 | C | 6.8 | -64 | 157 | -1.6 | -0.5 | -3.7 | 5 | C |
| 16 | 517 | 9.1 | 0 | C | 12.1 | 0 | 320 | 8.8 | -7.1 | 2.0 | 4 | C |
| 17 | 531 | 5.1 | 0 | C | 13.0 | 12 | 317 | 9.2 | -7.7 | 4.4 | 1 | C |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 466 | 3.4 | 0 | C | 12.1 | -2 | 309 | 7.6 | -9.3 | -0.6 | 1 | C |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

JUL. 20, 1982 201

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 674 | 3.7 | 0 | C | 11.6 | -1 | 340 | 10.8 | -3.9 | -0.2 | 0 | C |
| 2 | 676 | 3.5 | 0 | C | 11.5 | -43 | 293 | 2.8 | -6.9 | -6.4 | 6 | C |
| 3 | 682 | 2.9 | 0 | C | 11.6 | -46 | 269 | -0.2 | -8.7 | -7.6 | 2 | C |
| 4 | 671 | 3.1 | 0 | C | 11.5 | -51 | 276 | 0.8 | -8.3 | -7.9 | 1 | C |
| 5 | 635 | 3.3 | 0 | C | 11.2 | -51 | 286 | 1.9 | -8.1 | -7.1 | 1 | C |
| 6 | 558 | 3.9 | 0 | C | 10.5 | -5 | 313 | 7.0 | -7.6 | 0.9 | 1 | C |
| 7 | 577 | 3.9 | 0 | C | 10.2 | -5 | 3 4 | 5.0 | -7.2 | 1.4 | 5 | C |
| 8 | 555 | 3.0 | 131 | J | 9.6 | -31 | 327 | 6.5 | -5.5 | -3.0 | 3 | J |
| 9 | 541 | 2.9 | 112 | J | 9.5 | 14 | 338 | 7.2 | -2.0 | 2.9 | 5 | J |
| 10 | 562 | 3.4 | 131 | J | 10.8 | 38 | 324 | 6.4 | -1.9 | 7.5 | 3 | J |
| 11 | 581 | 3.5 | 160 | J | 10.2 | 27 | 335 | 6.8 | -1.4 | 4.8 | 6 | J |
| 12 | 571 | 3.7 | 270 | J | 9.8 | 13 | 320 | 6.6 | -4.3 | 4.0 | 3 | J |
| 13 | 537 | 3.2 | 119 | J | 9.7 | 22 | 329 | 7.2 | -2.7 | 4.8 | 2 | J |
| 14 | 555 | 4.1 | 0 | C | 9.5 | 33 | 312 | 5.3 | -3.5 | 6.9 | 1 | C |
| 15 | 543 | 4.0 | 0 | C | 9.2 | 24 | 325 | 6.8 | -3.3 | 5.0 | 1 | C |
| 16 | 568 | 3.6 | 141 | J | 9.5 | 31 | 335 | 4.4 | -4.8 | 6.2 | 2 | J |
| 17 | 558 | 3.3 | 91 | J | 9.5 | 22 | 302 | 4.3 | -6.1 | 4.7 | 3 | J |
| 18 | 539 | 4.1 | 0 | C | 9.3 | 23 | 306 | 4.7 | -5.8 | 4.3 | 3 | J |
| 19 | 543 | 4.1 | 0 | C | 9.4 | 33 | 308 | 4.5 | -5.3 | 5.3 | 3 | J |
| 20 | 538 | 4.2 | 0 | C | 9.5 | 28 | 303 | 4.2 | -6.2 | 4.4 | 3 | J |
| 21 | 549 | 4.1 | 0 | C | 9.8 | 32 | 288 | 2.3 | -6.9 | 4.7 | 3 | C |
| 22 | 568 | 3.6 | 131 | J | 9.5 | 34 | 313 | 4.9 | -5.3 | 4.8 | 4 | J |
| 23 | 524 | 4.1 | 0 | C | 9.6 | 24 | 297 | 3.6 | -7.2 | 3.5 | 3 | J |
| 24 | 502 | 4.1 | 0 | C | 9.2 | 13 | 325 | 6.7 | -4.7 | 1.9 | 4 | J |

JUL. 21, 1982 202

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 511 | 3.3 | 108 | J | 9.6 | 15 | 314 | 5.6 | -5.7 | 2.2 | 5 | J |
| 2 | 559 | 3.6 | 131 | J | 9.6 | 27 | 280 | 1.3 | -7.4 | 4.3 | 4 | J |
| 3 | 518 | 4.5 | 0 | C | 10.0 | 37 | 303 | 4.0 | -5.6 | 6.0 | 4 | J |
| 4 | 514 | 4.8 | 0 | C | 9.8 | 36 | 304 | 3.8 | -4.8 | 5.7 | 4 | C |
| 5 | 525 | 4.6 | 0 | C | 9.6 | 18 | 286 | 2.3 | -7.3 | 4.2 | 3 | C |
| 6 | 501 | 4.6 | 0 | C | 9.6 | 20 | 321 | 6.1 | -4.1 | 3.9 | 4 | C |
| 7 | 515 | 3.7 | 96 | J | 8.8 | 51 | 346 | 5.1 | 0.7 | 6.6 | 3 | J |
| 8 | 520 | 3.6 | 80 | J | 9.4 | 39 | 317 | 4.9 | -2.5 | 6.6 | 3 | J |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 506 | 3.6 | 58 | J | 9.3 | 17 | 299 | 4.2 | -5.9 | 5.4 | 2 | J |
| 11 | 531 | 3.4 | 67 | J | 9.2 | 28 | 302 | 3.8 | -4.0 | 5.9 | 4 | J |
| 12 | 531 | 3.6 | 72 | J | 8.9 | 31 | 293 | 2.9 | -4.4 | 6.8 | 2 | J |
| 13 | 512 | 3.4 | 65 | J | 8.8 | 29 | 300 | 3.7 | -4.3 | 6.3 | 2 | J |
| 14 | 483 | 4.6 | 0 | C | 8.8 | 31 | 305 | 4.3 | -4.0 | 6.4 | 0 | J |
| 15 |  |  |  |  | 9.9 | -35 | 329 | 6.6 | -5.5 | -3.8 | 3 | J |
| 16 | 519 | 5.0 | 107 | J | 10.6 | 5 | 303 | 4.9 | -7.1 | 2.9 | 5 | J |
| 17 | 539 | 4.6 | 111 | J | 10.2 | 36 | 298 | 3.4 | -5.1 | 6.6 | 5 | J |
| 18 | 500 | 4.3 | 72 | J | 9.9 | 21 | 334 | 6.8 | -2.8 | 3.4 | 6 | J |
| 19 | 468 | 4.7 | 62 | J | 9.6 | 8 | 329 | 6.8 | -3.9 | 1.5 | 5 | J |
| 20 | 512 | 4.5 | 120 | J | 9.0 | -32 | 348 | 4.0 | -1.0 | -2.5 | 8 | J |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 526 | 5.0 | 121 | J | 8.4 | 2 | 299 | 2.9 | -5.2 | 0.2 | 6 | J |
| 23 | 490 | 4.8 | 105 | J | 9.3 | -15 | 334 | 6.3 | -3.0 | -1.9 | 6 | J |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

JUL. 22, 1982 203

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 539 | 8.5 | 191 | J | 12.8 | -13 | 49 | 6.2 | 7.1 | -2.3 | 8 | J |
| 2 | 543 | 7.5 | 229 | J | 12.6 | 44 | 317 | 6.5 | -5.6 | 8.9 | 3 | J |
| 3 | 550 | 6.9 | 206 | J | 12.3 | 47 | 330 | 3.7 | -5.6 | 8.5 | 6 | J |
| 4 | 537 | 6.8 | 177 | J | 12.2 | 48 | 327 | 5.8 | -2.6 | 8.2 | 6 | J |
| 5 | 531 | 6.5 | 141 | J | 11.7 | 52 | 332 | 5.9 | -1.4 | 9.0 | 4 | J |
| 6 | 513 | 5.7 | 99 | J | 11.3 | 46 | 330 | 6.6 | -1.7 | 8.5 | 3 | J |
| 7 | 500 | 5.3 | 97 | J | 10.8 | 40 | 9 | 7.9 | 3.2 | 6.1 | 2 | J |
| 8 | 509 | 7.2 | 83 | J | 10.5 | -11 | 29 | 8.8 | 4.0 | -3.5 | 2 | J |
| 9 |  |  |  |  | 11.1 | 2 | 23 | 10.1 | 4.1 | -1.2 | 1 | J |
| 10 | 510 | 2.7 | 67 | J | 10.1 | 37 | 359 | 7.8 | 2.2 | 5.5 | 2 | J |
| 11 | 536 | 2.6 | 85 | J | 9.8 | 48 | 342 | 6.1 | 1.1 | 7.3 | 2 | J |
| 12 | 515 | 2.9 | 70 | J | 9.4 | 25 | 331 | 7.1 | -2.0 | 5.1 | 3 | J |
| 13 | 537 | 4.7 | 87 | J | 8.9 | -35 | 331 | 4.6 | -3.8 | -2.4 | 6 | J |
| 14 | 534 | 5.6 | 124 | J | 9.0 | -28 | 305 | 4.2 | -7.0 | -1.4 | 3 | J |
| 15 | 498 | 5.4 | 74 | J | 9.8 | 1 | 320 | 6.7 | -5.2 | 2.0 | 5 | J |
| 16 | 544 | 6.3 | 122 | J | 10.5 | 20 | 294 | 3.7 | -7.0 | 5.5 | 4 | J |
| 17 | 506 | 6.2 | 109 | J | 10.2 | 20 | 320 | 6.0 | -4.3 | 3.9 | 6 | J |
| 18 | 491 | 6.8 | 83 | J | 10.7 | 10 | 313 | 6.5 | -6.6 | 2.8 | 4 | J |
| 19 | 487 | 7.3 | 0 | C | 11.6 | 32 | 303 | 5.2 | -7.3 | 6.8 | 2 | C |
| 20 | 493 | 8.4 | 0 | C | 11.6 | 41 | 299 | 4.2 | -7.0 | 7.8 | 1 | C |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 469 | 6.9 | 0 | C | 10.6 | 19 | 317 | 6.0 | -8.0 | 3.4 | 0 | C |
| 23 | 469 | 6.9 | 0 | C | 10.9 | 17 | 313 | 6.8 | -7.2 | 3.1 | 3 | C |
| 24 | 461 | 6.9 | 0 | C | 11.1 | 23 | 320 | 7.4 | -6.1 | 4.1 | 3 | C |

JUL. 23, 1982 204

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 535 | 4.9 | 148 | J | 10.0 | 1 | 310 | 4.7 | -5.6 | 0.3 | 7 | J |
| 2 | 504 | 5.5 | 128 | J | 10.3 | 3 | 305 | 5.3 | -7.5 | 0.9 | 4 | J |
| 3 | 538 | 5.3 | 181 | J | 10.1 | 14 | 282 | 1.9 | -8.5 | 3.1 | 4 | J |
| 4 | 497 | 5.3 | 138 | J | 10.0 | 10 | 316 | 6.6 | -6.0 | 2.5 | 4 | J |
| 5 | 486 | 5.6 | 153 | J | 9.4 | 10 | 315 | 6.3 | -5.9 | 2.8 | 2 | J |
| 6 | 472 | 6.1 | 114 | J | 9.2 | 0 | 310 | 5.5 | -6.3 | 1.6 | 3 | J |
| 7 | 505 | 6.4 | 155 | J | 9.6 | 10 | 298 | 3.8 | -6.5 | 3.5 | 5 | J |
| 8 | 460 | 6.2 | 83 | J | 9.1 | 0 | 317 | 5.9 | -5.2 | 1.9 | 4 | J |
| 9 | 462 | 6.2 | 96 | J | 8.8 | 5 | 328 | 6.8 | -3.7 | 2.3 | 3 | J |
| 10 | 445 | 6.2 | 99 | J | 8.7 | -2 | 332 | 7.6 | -3.8 | 1.3 | 1 | J |
| 11 | 462 | 8.6 | 0 | C | 8.6 | -1 | 312 | 5.7 | -5.8 | 2.5 | 0 | C |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 469 | 7.5 | 156 | J | 7.7 | -43 | 309 | 3.4 | -5.8 | -2.9 | 2 | J |
| 14 | 497 | 8.0 | 141 | J | 7.6 | -85 | 77 | 0.1 | -2.0 | -6.3 | 4 | J |
| 15 | 465 | 10.0 | 0 | C | 8.3 | -9 | 311 | 4.2 | -4.9 | 0.7 | 4 | C |
| 16 | 446 | 10.4 | 0 | C | 8.4 | 13 | 314 | 5.3 | -4.7 | 3.3 | 2 | C |
| 17 | 441 | 9.7 | 0 | C | 8.8 | 6 | 314 | 5.1 | -5.0 | 2.1 | 4 | C |
| 18 | 437 | 6.6 | 89 | J | 8.7 | -7 | 320 | 6.1 | -5.2 | -0.1 | 3 | J |
| 19 | 455 | 6.7 | 67 | J | 8.9 | -9 | 302 | 4.2 | -6.9 | -0.5 | 4 | J |
| 20 | 461 | 7.0 | 63 | J | 8.9 | -10 | 294 | 3.1 | -7.1 | -0.9 | 4 | J |
| 21 | 437 | 5.8 | 63 | J | 8.5 | 4 | 304 | 4.4 | -6.4 | 0.8 | 3 | J |
| 22 | 433 | 7.9 | 0 | C | 9.1 | -4 | 332 | 7.7 | -4.2 | -0.6 | 2 | C |
| 23 | 423 | 8.0 | 0 | C | 9.6 | -9 | 324 | 7.5 | -5.4 | -1.4 | 2 | C |
| 24 | 414 | 4.7 | 33 | J | 9.4 | -6 | 325 | 7.0 | -4.9 | -0.8 | 3 | J |

JUL. 24, 1982 205

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 423 | 5.3 | 86 | L | 9.7 | 23 | 327 | 7.3 | -4.6 | 3.9 | 2 | J |
| 2 | 434 | 7.4 | 0 | C | 9.9 | 4 | 337 | 8.7 | -3.6 | 0.9 | 2 | C |
| 3 | 447 | 8.2 | 0 | C | 9.5 | -43 | 344 | 5.6 | -2.2 | -5.3 | 4 | C |
| 4 | 460 | 6.3 | 82 | J | 8.6 | -57 | 350 | 4.1 | -1.7 | -6.2 | 4 | J |
| 5 | 476 | 7.7 | 93 | J | 9.5 | -73 | 33 | 1.9 | -0.3 | -7.7 | 5 | J |
| 6 | 473 | 8.0 | 95 | J | 9.9 | -75 | 32 | 1.8 | -0.9 | -7.7 | 6 | J |
| 7 | 420 | 6.7 | 56 | J | 10.8 | -15 | 337 | 8.8 | -4.3 | -1.3 | 4 | J |
| 8 | 419 | 7.1 | 56 | J | 11.3 | -22 | 354 | 9.6 | -2.3 | -3.3 | 4 | J |
| 9 | 474 | 8.5 | 110 | J | 10.9 | -62 | 352 | 3.8 | -3.2 | -6.4 | 7 | J |
| 10 | 434 | 7.3 | 72 | J | 10.2 | -18 | 350 | 7.0 | -2.1 | -1.6 | 7 | J |
| 11 | 504 | 9.7 | 183 | J | 10.2 | -72 | 268 | -0.1 | -6.5 | -7.0 | 3 | J |
| 12 | 451 | 11.8 | 0 | C | 10.6 | -9 | 6 | 7.5 | 0.2 | -1.4 | 6 | C |
| 13 | 447 | 9.2 | 151 | J | 12.9 | 5 | 326 | 8.7 | -5.0 | 3.2 | 8 | J |
| 14 | 478 | 11.3 | 187 | J | 15.2 | -3 | 315 | 9.9 | -9.4 | 3.1 | 6 | J |
| 15 | 511 | 14.5 | 0 | C | 15.0 | -13 | 328 | 10.8 | -7.4 | -0.4 | 7 | J |
| 16 | 554 | 7.9 | 385 | J | 12.0 | -31 | 341 | 9.6 | -5.0 | -4.9 | 2 | J |
| 17 | 721 | 5.3 | 1012 | J | 13.2 | -68 | 321 | 1.6 | -4.3 | -6.7 | 10 | J |
| 18 | 810 | 5.6 | 591 | J | 13.2 | -43 | 161 | -8.6 | 1.4 | -8.9 | 4 | J |
| 19 | 715 | 6.1 | 807 | J | 11.7 | -84 | 48 | 0.6 | -0.4 | -7.9 | 9 | J |
| 20 | 654 | 4.9 | 500 | J | 12.5 | 22 | 332 | 9.8 | -4.9 | 4.9 | 3 | J |
| 21 | 681 | 5.0 | 512 | J | 12.8 | 30 | 337 | 9.7 | -3.9 | 6.3 | 4 | J |
| 22 | 650 | 4.9 | 396 | J | 12.8 | 17 | 334 | 10.7 | -5.1 | 3.7 | 3 | J |
| 23 | 644 | 4.6 | 315 | J | 12.3 | -4 | 329 | 10.0 | -6.0 | -0.7 | 3 | J |
| 24 | 645 | 3.9 | 244 | J | 12.2 | -9 | 338 | 10.3 | -4.2 | -1.7 | 5 | J |

JUL. 25, 1982 206

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 633 | 3.8 | 199 | J | 11.8 | -4 | 349 | 10.6 | -2.1 | -0.7 | 5 | J |
| 2 | 638 | 3.7 | 204 | J | 11.9 | -4 | 324 | 9.0 | -6.6 | -0.3 | 4 | J |
| 3 | 666 | 3.4 | 340 | J | 12.1 | -12 | 306 | 6.4 | -9.0 | -1.3 | 5 | J |
| 4 | 673 | 3.4 | 274 | J | 11.9 | -25 | 312 | 6.1 | -7.3 | -3.1 | 6 | J |
| 5 | 618 | 3.5 | 161 | J | 11.9 | -4 | 333 | 10.1 | -5.2 | 0.3 | 3 | J |
| 6 | 613 | 4.0 | 217 | J | 11.8 | -17 | 320 | 8.2 | -7.5 | -1.4 | 4 | J |
| 7 | 620 | 3.8 | 241 | J | 11.1 | -23 | 310 | 5.9 | -7.9 | -1.5 | 5 | J |
| 8 | 597 | 3.7 | 184 | J | 10.4 | -27 | 343 | 7.9 | -3.8 | -3.1 | 5 | J |
| 9 | 594 | 3.9 | 193 | J | 11.1 | -14 | 328 | 7.8 | -5.4 | -0.2 | 6 | J |
| 10 | 587 | 3.4 | 125 | J | 10.7 | -2 | 319 | 7.7 | -6.2 | 2.4 | 3 | J |
| 11 | 601 | 3.8 | 162 | J | 10.4 | -12 | 304 | 5.1 | -7.7 | 1.5 | 4 | J |
| 12 | 563 | 3.5 | 129 | J | 10.2 | -7 | 319 | 7.0 | -6.0 | 1.6 | 4 | J |
| 13 | 552 | 3.4 | 126 | J | 9.9 | 2 | 324 | 7.4 | -4.8 | 2.5 | 4 | J |
| 14 | 466 | 6.3 | 0 | C | 9.9 | -9 | 321 | 6.9 | -5.8 | 1.0 | 3 | C |
| 15 | 459 | 6.2 | 0 | C | 9.3 | -22 | 300 | 4.0 | -7.5 | -0.6 | 3 | C |
| 16 | 583 | 4.2 | 224 | J | 8.7 | -5 | 298 | 3.5 | -6.4 | 1.3 | 4 | J |
| 17 | 561 | 4.0 | 134 | J | 8.5 | -6 | 321 | 5.9 | -4.8 | 0.4 | 4 | J |
| 18 | 563 | 3.8 | 144 | J | 8.9 | -2 | 297 | 3.5 | -6.9 | 1.0 | 4 | J |
| 19 | 526 | 3.4 | 96 | J | 8.9 | -13 | 316 | 6.2 | -6.2 | -1.2 | 1 | J |
| 20 | 463 | 4.6 | 69 | J | 9.0 | -5 | 322 | 6.6 | -5.2 | -0.3 | 3 | J |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 490 | 6.1 | 125 | J | 8.7 | -21 | 307 | 4.6 | -6.1 | -2.7 | 3 | J |
| 23 | 536 | 7.5 | 124 | J | 8.6 | -58 | 314 | 1.1 | -1.2 | -2.5 | 8 | J |
| 24 | 556 | 8.6 | 97 | L | 8.7 | -23 | 211 | -5.2 | -3.2 | -2.5 | 5 | C |

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JUL. 26, 1982 207

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 528 | 7.7 | 96 | J | 8.8 | -48 | 246 | -1.8 | -4.3 | -4.8 | 6 | J |
| 2 | 468 | 7.9 | 78 | J | 9.1 | -19 | 312 | 4.7 | -5.4 | -2.0 | 5 | J |
| 3 | 435 | 8.0 | 89 | J | 9.8 | -33 | 18 | 7.5 | 1.8 | -5.4 | 2 | J |
| 4 | 444 | 7.9 | 74 | J | 9.7 | 18 | 322 | 6.7 | -4.7 | 3.6 | 4 | J |
| 5 | 446 | 8.5 | 107 | J | 9.7 | 8 | 304 | 4.9 | -6.7 | 2.8 | 3 | C |
| 6 | 445 | 8.1 | 107 | J | 9.3 | -17 | 334 | 6.5 | -3.7 | -1.3 | 5 | J |
| 7 | 441 | 8.7 | 126 | J | 9.4 | -18 | 335 | 7.0 | -3.9 | -1.3 | 5 | J |
| 8 | 472 | 8.8 | 105 | J | 9.6 | -16 | 305 | 4.3 | -6.5 | 0.2 | 6 | J |
| 9 | 437 | 9.1 | 116 | J | 10.3 | -33 | 348 | 7.5 | -3.4 | -3.9 | 5 | J |
| 10 | 452 | 9.9 | 81 | J | 10.4 | -33 | 333 | 6.9 | -5.3 | -3.1 | 5 | J |
| 11 | 450 | 11.3 | 87 | J | 9.8 | -3 | 331 | 8.1 | -4.3 | 1.5 | 3 | J |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 468 | 12.3 | 79 | J | 12.7 | -12 | 322 | 8.6 | -7.1 | 0.5 | 6 | J |
| 15 | 473 | 12.0 | 84 | J | 13.2 | -29 | 331 | 9.0 | -6.6 | -3.6 | 6 | J |
| 16 | 476 | 12.3 | 91 | J | 13.4 | -34 | 323 | 8.1 | -7.9 | -4.7 | 5 | J |
| 17 | 461 | 17.1 | 0 | C | 13.2 | 17 | 335 | 10.6 | -3.9 | 4.7 | 4 | C |
| 18 | 455 | 17.2 | 0 | C | 13.6 | 13 | 338 | 10.9 | -3.7 | 3.4 | 6 | C |
| 19 | 454 | 16.8 | 0 | C | 13.5 | 0 | 327 | 10.2 | -6.5 | 0.8 | 4 | C |
| 20 | 463 | 16.8 | 0 | C | 13.9 | 2 | 341 | 12.1 | -4.2 | 0.8 | 4 | C |
| 21 | 479 | 14.9 | 0 | C | 14.7 | -15 | 322 | 10.7 | -8.4 | -3.2 | 3 | C |
| 22 | 505 | 12.6 | 0 | C | 13.9 | 25 | 300 | 6.0 | -10.1 | 6.0 | 3 | C |
| 23 | 551 | 12.5 | 0 | C | 12.0 | 45 | 265 | -0.6 | -6.7 | 7.1 | 5 | C |
| 24 | 576 | 12.0 | 0 | C | 13.6 | -5 | 266 | -0.8 | -11.0 | -0.7 | 7 | C |

JUL. 27, 1982 208

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | 9ZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 542 | 10.9 | 0 | C | 13.5 | 6 | 313 | 8.6 | -9.1 | 1.7 | 4 | C |
| 2 | 533 | 10.0 | 0 | C | 13.5 | 7 | 307 | 7.5 | -10.0 | 2.3 | 3 | C |
| 3 | 547 | 9.6 | 0 | C | 12.9 | 8 | 314 | 8.0 | -8.1 | 2.8 | 4 | C |
| 4 | 572 | 9.2 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 620 | 7.9 | 0 | C | 11.6 | 1 | 320 | 6.1 | -5.0 | 1.3 | 8 | C |
| 6 | 629 | 7.3 | 0 | C | 11.9 | -68 | 303 | 2.4 | -6.6 | -9.6 | 0 | C |
| 7 | 619 | 7.3 | 0 | C | 10.5 | -27 | 297 | 3.8 | -8.4 | -1.6 | 4 | C |
| 8 | 604 | 7.3 | 0 | C | 10.0 | -21 | 311 | 5.0 | -6.5 | -0.7 | 4 | C |
| 9 | 600 | 7.5 | 0 | C | 9.5 | 5 | 327 | 6.5 | -3.6 | 2.3 | 4 | C |
| 10 | 651 | 8.0 | 0 | C | 9.2 | 12 | 337 | 7.8 | -2.2 | 3.0 | 2 | C |
| 11 | 679 | 8.1 | 0 | C | 9.1 | 9 | 347 | 8.3 | -1.2 | 2.0 | 2 | C |
| 12 | 590 | 6.7 | 0 | C | 9.0 | 3 | 323 | 6.5 | -4.2 | 2.4 | 3 | C |
| 13 | 566 | 6.5 | 0 | C | 9.5 | 2 | 321 | 7.3 | -5.3 | 2.8 | 1 | C |
| 14 | 559 | 7.1 | 0 | C | 9.0 | 1 | 331 | 6.6 | -3.3 | 1.5 | 4 | C |
| 15 | 567 | 8.1 | 0 | C | 8.5 | -6 | 329 | 6.3 | -3.8 | 0.7 | 4 | C |
| 16 | 574 | 9.0 | 0 | C | 8.5 | -3 | 308 | 3.3 | -4.1 | 1.1 | 5 | C |
| 17 | 577 | 9.2 | 0 | C | 8.9 | 40 | 276 | 0.7 | -4.7 | 6.8 | 2 | C |
| 18 | 562 | 8.9 | 0 | C | 8.7 | 39 | 299 | 3.1 | -4.4 | 6.2 | 2 | C |
| 19 | 554 | 9.1 | 0 | C | 8.5 | 12 | 335 | 6.3 | -2.7 | 1.9 | 4 | C |
| 20 | 558 | 9.6 | 0 | C | 8.4 | 7 | 324 | 6.5 | -4.6 | 1.4 | 1 | C |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 570 | 9.2 | 0 | C |  |  |  |  |  |  |  |  |

JUL. 28, 1982 209

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 569 | 9.1 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 567 | 8.7 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 574 | 8.1 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 582 | 7.8 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 586 | 7.8 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 580 | 7.8 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 580 | 7.8 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 616 | 8.8 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 604 | 8.3 | 0 | C |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 607 | 7.4 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 607 | 7.4 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 611 | 6.9 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 619 | 6.9 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 609 | 7.1 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 603 | 7.2 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 620 | 7.2 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 576 | 7.0 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 576 | 7.0 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 579 | 7.1 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 579 | 7.2 | 0 | C |  |  |  |  |  |  |  |  |

JUL. 29, 1982 210

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | 9ZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 588 | 6.9 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 566 | 7.3 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 584 | 8.0 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 559 | 7.1 | 0 | C |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 586 | 6.3 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 586 | 6.3 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 561 | 6.7 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 560 | 6.6 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 555 | 6.6 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 562 | 6.1 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 556 | 6.0 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 556 | 6.8 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 543 | 7.2 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 541 | 7.3 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 543 | 7.5 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 536 | 7.1 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 534 | 7.0 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 525 | 7.5 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 525 | 7.5 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 520 | 7.4 | 0 | C |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 484 | 11.6 | 0 | C |  |  |  |  |  |  |  |  |

JUL. 30, 1982 211

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 488 | 11.4 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 511 | 10.6 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 529 | 11.6 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 538 | 10.5 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 536 | 10.6 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 534 | 10.3 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 537 | 10.2 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 520 | 10.2 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 495 | 11.5 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 461 | 13.4 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 452 | 15.1 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 472 | 16.5 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 462 | 17.6 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 462 | 17.6 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 490 | 18.8 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 518 | 14.8 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 520 | 15.4 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 551 | 17.5 | 0 | C |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 506 | 13.5 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 506 | 13.5 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 500 | 13.0 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 505 | 12.5 | 0 | C |  |  |  |  |  |  |  |  |

JUL. 31, 1982 212

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | 9ZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 513 | 12.8 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 513 | 14.3 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 528 | 16.4 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 544 | 15.0 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 577 | 14.6 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 615 | 16.5 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 615 | 15.9 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 579 | 8.1 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 587 | 7.4 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 597 | 7.4 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 599 | 7.0 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 609 | 6.5 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 607 | 6.3 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 618 | 6.0 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 618 | 6.0 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 612 | 5.6 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 631 | 6.0 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 620 | 5.8 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 613 | 5.4 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 604 | 5.4 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 604 | 5.1 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 584 | 4.9 | 0 | C |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 518 | 4.1 | 0 | C |  |  |  |  |  |  |  |  |

AUG. 1, 1982 213

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 515 | 4.1 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 508 | 4.1 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 520 | 4.2 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 493 | 4.4 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 463 | 4.9 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 462 | 5.6 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 456 | 7.1 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 447 | 7.1 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 430 | 5.8 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 424 | 8.7 | 0 | C |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 399 | 11.8 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 392 | 15.1 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 398 | 14.9 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 397 | 15.1 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 405 | 16.4 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 406 | 17.9 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 397 | 18.8 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 437 | 17.7 | 105 | L |  |  |  |  |  |  |  |  |
| 20 | 445 | 13.8 | 96 | J | 9.8 | 3 | 141 | -6.5 | 5.3 | -0.2 | 4 | J |
| 21 | 440 | 14.1 | 94 | J | 10.3 | 8 | 132 | -6.3 | 7.1 | 0.7 | 3 | J |
| 22 | 445 | 15.2 | 109 | J | 10.3 | 9 | 132 | -6.0 | 6.8 | 1.0 | 4 | J |
| 23 | 436 | 13.8 | 116 | J | 10.5 | -3 | 138 | -7.3 | 6.5 | -0.9 | 3 | J |
| 24 | 439 | 14.2 | 142 | J | 10.8 | -1 | 136 | -6.8 | 6.6 | -0.6 | 5 | J |

AUG. 2, 1982 214

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | 9ZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 466 | 17.8 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 471 | 17.1 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 460 | 16.5 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 454 | 16.7 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 465 | 18.0 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 467 | 13.8 | 112 | J | 10.8 | 17 | 119 | -4.7 | 8.9 | 0.2 | 4 | J |
| 7 | 470 | 20.9 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 490 | 23.9 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 498 | 18.3 | 187 | J | 11.1 | 11 | 125 | -5.0 | 7.1 | -1.5 | 7 | J |
| 10 | 504 | 17.5 | 207 | J | 12.6 | -7 | 119 | -5.3 | 7.9 | -5.5 | 6 | J |
| 11 | 502 | 18.3 | 223 | J | 11.6 | -51 | 155 | -5.6 | -1.2 | -8.0 | 6 | J |
| 12 | 486 | 20.0 | 301 | J | 11.5 | -13 | 172 | -8.9 | 0.2 | -2.4 | 7 | J |
| 13 | 500 | 15.5 | 207 | J | 13.1 | -40 | 136 | -6.6 | 2.2 | -9.7 | 5 | J |
| 14 | 496 | 14.3 | 223 | J | 13.9 | -8 | 125 | -6.8 | 8.1 | -5.6 | 7 | J |
| 15 | 513 | 13.4 | 159 | J | 13.9 | -16 | 128 | -6.8 | 6.8 | -6.3 | 8 | J |
| 16 | 503 | 13.5 | 123 | J | 15.0 | 4 | 152 | -12.0 | 6.3 | -1.3 | 6 | J |
| 17 | 542 | 14.8 | 193 | J | 14.0 | 2 | 133 | -7.5 | 7.8 | -1.9 | 9 | J |
| 18 | 564 | 14.0 | 202 | J | 12.7 | 4 | 132 | -6.4 | 7.1 | -1.0 | 8 | J |
| 19 | 567 | 12.5 | 184 | J | 11.5 | -15 | 141 | -7.1 | 5.2 | -3.4 | 6 | J |
| 20 | 575 | 12.4 | 192 | J | 10.5 | -10 | 156 | -7.1 | 3.0 | -1.8 | 7 | J |
| 21 | 574 | 11.3 | 152 | J | 10.3 | -32 | 149 | -6.2 | 3.3 | -4.8 | 6 | J |
| 22 | 579 | 10.3 | 117 | J | 9.9 | -28 | 162 | -7.1 | 2.0 | -4.1 | 5 | J |
| 23 |  |  |  |  | 10.0 | -16 | 165 | -8.0 | 2.0 | -2.5 | 5 | J |
| 24 | 560 | 13.6 | 0 | C | 9.9 | 13 | 141 | -5.5 | 4.5 | 1.3 | 7 | J |

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08/03/82 – 08/10/82

AUG. 3, 1982 215

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 552 | 9.0 | 88 | J | 9.8 | 3 | 167 | -8.5 | 2.0 | 0.3 | 5 | J |
| 2 | 562 | 8.6 | 109 | J | 9.4 | -19 | 163 | -6.4 | 1.7 | -2.5 | 6 | J |
| 3 | 560 | 7.5 | 102 | J | 10.0 | -6 | 145 | -7.3 | 4.9 | -1.8 | 4 | J |
| 4 | 565 | 7.9 | 141 | J | 9.7 | 14 | 129 | -5.7 | 7.3 | 0.7 | 3 | J |
| 5 | 577 | 8.3 | 144 | J | 8.8 | 22 | 149 | -6.0 | 4.2 | 1.8 | 4 | J |
| 6 | 571 | 8.3 | 179 | J | 9.4 | -6 | 135 | -6.5 | 5.9 | -3.0 | 1 | J |
| 7 | 583 | 10.8 | 0 | C | | | | | | | | |
| 8 | 571 | 7.6 | 122 | J | 9.5 | 29 | 136 | -5.3 | 6.4 | 1.7 | 4 | J |
| 9 | 602 | 7.9 | 196 | J | 8.7 | 8 | 138 | -5.2 | 4.7 | -1.1 | 5 | J |
| 10 | 603 | 8.1 | 228 | J | 7.9 | -8 | 145 | -4.8 | 2.6 | -2.3 | 5 | J |
| 11 | 604 | 7.7 | 209 | J | 7.6 | 40 | 149 | -4.5 | 4.4 | 2.6 | 3 | J |
| 12 | 604 | 7.0 | 190 | J | 7.2 | -24 | 145 | -4.1 | 1.5 | -3.3 | 4 | J |
| 13 | 612 | 6.3 | 148 | J | 7.6 | 1 | 120 | -3.0 | 4.7 | -2.3 | 5 | J |
| 14 | 566 | 5.7 | 58 | J | 7.3 | 1 | 156 | -6.2 | 2.5 | -1.1 | 3 | J |
| 15 | 612 | 6.5 | 139 | J | 8.3 | -6 | 105 | -1.8 | 5.8 | -3.3 | 4 | J |
| 16 | 594 | 6.8 | 148 | J | 8.3 | 39 | 121 | -3.0 | 6.4 | 2.8 | 3 | J |
| 17 | 589 | 6.7 | 160 | J | 7.6 | 24 | 125 | -3.3 | 5.3 | 1.1 | 4 | J |
| 18 | 575 | 6.0 | 96 | J | 7.6 | -26 | 124 | -3.4 | 4.2 | -4.1 | 3 | J |
| 19 | 563 | 7.6 | 161 | L | 7.6 | -1 | 124 | -4.2 | 6.1 | -1.2 | 1 | J |
| 20 | 555 | 7.7 | 0 | C | | | | | | | | |
| 21 | 528 | 4.8 | 135 | J | 7.4 | -12 | 163 | -6.0 | 1.7 | -1.5 | 3 | J |
| 22 | 561 | 4.9 | 83 | J | 6.4 | -16 | 156 | -5.2 | 2.2 | -1.8 | 2 | J |
| 23 | 577 | 6.2 | 162 | J | 5.8 | -2 | 162 | -4.3 | 1.4 | -0.3 | 4 | J |
| 24 | 584 | 5.5 | 166 | J | 6.1 | 34 | 139 | -2.8 | 2.6 | 2.3 | 4 | J |

AUG. 4, 1982 216

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 581 | 5.5 | 183 | J | 6.2 | -3 | 128 | -3.3 | 4.1 | -0.7 | 3 | J |
| 2 | 572 | 5.1 | 124 | J | 6.0 | 22 | 158 | -4.4 | 2.0 | 1.7 | 3 | J |
| 3 | 564 | 5.1 | 113 | J | 6.3 | -12 | 155 | -5.1 | 2.2 | -1.6 | 3 | J |
| 4 | 565 | 5.4 | 124 | J | 6.3 | -2 | 155 | -4.7 | 2.1 | -0.6 | 3 | J |
| 5 | 565 | 5.4 | 116 | J | 6.1 | 14 | 142 | -4.1 | 3.4 | 0.4 | 3 | J |
| 6 | 567 | 5.8 | 135 | J | 6.4 | 37 | 143 | -3.2 | 3.2 | 2.1 | 4 | J |
| 7 | 552 | 5.3 | 137 | J | 6.3 | -2 | 174 | -5.7 | 0.5 | -0.4 | 3 | J |
| 8 | 546 | 6.2 | 163 | J | 6.8 | -3 | 154 | -5.8 | 2.5 | -1.5 | 2 | J |
| 9 | 568 | 6.2 | 156 | J | 6.4 | 25 | 137 | -3.2 | 3.6 | 0.5 | 4 | J |
| 10 | 547 | 8.1 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 511 | 8.4 | 0 | C | | | | | | | | |
| 13 | 511 | 8.4 | 0 | C | | | | | | | | |
| 14 | 526 | 8.3 | 0 | C | | | | | | | | |
| 15 | 527 | 8.8 | 0 | C | | | | | | | | |
| 16 | 511 | 5.9 | 67 | J | 7.0 | -3 | 186 | -6.6 | -0.8 | -0.1 | 2 | J |
| 17 | 512 | 6.8 | 68 | J | 7.6 | -12 | 170 | -6.6 | 0.7 | -1.7 | 3 | J |
| 18 | 526 | 8.0 | 137 | J | 7.5 | -12 | 153 | -5.7 | 2.5 | -2.0 | 4 | J |
| 19 | 546 | 7.7 | 140 | J | 7.3 | 27 | 121 | -2.8 | 5.0 | 1.8 | 4 | J |
| 20 | 548 | 10.1 | 0 | C | 7.1 | 10 | 91 | -0.1 | 7.1 | 0.3 | 0 | J |
| 21 | | | | | | | | | | | | |
| 22 | 53[illegible] | 10.2 | 0 | C | | | | | | | | |
| 23 | 55[illegible] | 8.3 | 101 | J | 7.7 | 19 | 102 | -1.4 | 6.5 | 1.8 | 3 | J |
| 24 | 55[illegible] | 8.2 | 121 | J | 7.9 | -4 | 76 | 1.8 | 7.0 | -1.1 | 3 | J |

AUG. 5, 1982 217

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 533 | 8.1 | 108 | J | 8.1 | -3 | 136 | -1.5 | 5.1 | -0.8 | 6 | J |
| 2 | 495 | 7.8 | 121 | J | 8.0 | 4 | 143 | -6.0 | 4.5 | -0.1 | 3 | J |
| 3 | 489 | 8.2 | 135 | J | 7.5 | 2 | 137 | -4.8 | 4.4 | -0.5 | 4 | J |
| 4 | 485 | 8.7 | 134 | J | 7.6 | -4 | 139 | -5.0 | 4.2 | -1.4 | 4 | J |
| 5 | 490 | 9.4 | 144 | J | | | | | | | | |
| 6 | 473 | 10.0 | 141 | J | 8.2 | -1 | 168 | -6.6 | 1.3 | -0.6 | 4 | J |
| 7 | 468 | 9.0 | 114 | J | 7.6 | 3 | 171 | -6.8 | 1.1 | -0.1 | 3 | J |
| 8 | 502 | 9.4 | 119 | J | 8.2 | -4 | 133 | -1.5 | 5.7 | -3.0 | 5 | J |
| 9 | 507 | 8.8 | 90 | J | 8.6 | -6 | 80 | 1.3 | 6.3 | -3.9 | 4 | J |
| 10 | 471 | 8.7 | 89 | J | 8.4 | -10 | 130 | -5.0 | 4.6 | -4.0 | 3 | J |
| 11 | 499 | 12.3 | 0 | C | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 466 | 13.0 | 0 | C | | | | | | | | |
| 15 | 466 | 13.0 | 0 | C | | | | | | | | |
| 16 | 446 | 13.0 | 0 | C | | | | | | | | |
| 17 | 449 | 9.0 | 98 | J | 7.4 | -12 | 155 | -5.8 | 2.2 | -2.1 | 3 | J |
| 18 | 456 | 8.9 | 98 | J | 7.2 | 28 | 144 | -4.5 | 3.9 | 2.1 | 3 | J |
| 19 | 453 | 12.2 | 0 | C | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 482 | 9.9 | 114 | J | 7.4 | 40 | 74 | 1.4 | 5.2 | 3.6 | 4 | J |
| 22 | 467 | 9.1 | 98 | J | 7.1 | 4 | 107 | -1.7 | 5.5 | -0.1 | 4 | J |
| 23 | 463 | 9.4 | 91 | J | 7.3 | 49 | 133 | -2.6 | 3.1 | 4.1 | 4 | J |
| 24 | 451 | 9.7 | 73 | J | 7.6 | 2 | 122 | -3.1 | 4.9 | -0.2 | 5 | J |

AUG. 6, 1982 218

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 423 | 9.0 | 100 | J | 7.0 | -4 | 167 | -6.0 | 1.3 | -0.6 | 3 | J |
| 2 | 427 | 9.4 | 121 | J | 6.9 | -24 | 166 | -5.6 | 1.0 | -2.7 | 3 | J |
| 3 | 479 | 9.7 | 78 | J | 6.9 | 35 | 34 | 3.5 | 2.8 | 2.5 | 5 | J |
| 4 | 480 | 9.3 | 61 | J | 8.1 | 23 | 59 | 3.7 | 6.6 | 1.6 | 2 | J |
| 5 | 482 | 10.8 | 70 | J | 7.2 | 8 | 54 | 3.8 | 5.3 | -0.6 | 3 | J |
| 6 | 475 | 11.2 | 75 | J | 6.2 | 1 | 20 | 4.9 | 1.7 | -0.5 | 3 | J |
| 7 | 443 | 10.1 | 85 | J | 6.1 | 40 | 112 | -1.4 | 4.4 | 1.6 | 4 | J |
| 8 | 451 | 10.8 | 66 | J | 6.4 | 33 | 82 | 0.6 | 5.3 | 0.8 | 3 | J |
| 9 | 444 | 11.3 | 70 | J | 6.3 | -12 | 78 | 1.0 | 3.9 | -3.1 | 4 | J |
| 10 | 439 | 11.4 | 63 | J | 6.4 | 5 | 76 | 1.3 | 4.9 | -2.1 | 3 | J |
| 11 | 464 | 16.4 | 65 | J | 8.4 | -4 | 65 | 3.2 | 5.8 | -3.8 | 4 | J |
| 12 | 447 | 18.5 | 75 | J | 9.1 | 35 | 101 | -1.0 | 6.6 | 0.8 | 6 | J |
| 13 | 422 | 23.0 | 0 | C | | | | | | | | |
| 14 | 404 | 20.5 | 0 | C | | | | | | | | |
| 15 | 416 | 24.0 | 0 | C | | | | | | | | |
| 16 | 412 | 15.5 | 36 | J | 10.0 | 1 | 110 | -3.2 | 8.4 | -3.0 | 3 | J |
| 17 | 390 | 27.9 | 0 | C | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 394 | 27.2 | 0 | C | | | | | | | | |
| 20 | 489 | 12.3 | 337 | J | 15.0 | -53 | 9 | 8.9 | -0.4 | -12.0 | 1 | J |
| 21 | 523 | 15.7 | 227 | J | 16.8 | 3 | 158 | -9.5 | 3.9 | 0.1 | 14 | J |
| 22 | 561 | 18.9 | 209 | J | 17.8 | 8 | 135 | -11.1 | 11.3 | 1.2 | 8 | J |
| 23 | 554 | 21.7 | 313 | J | 17.3 | 5 | 129 | -10.2 | 12.7 | 0.3 | 6 | J |
| 24 | 615 | 18.2 | 336 | J | 15.1 | 6 | 137 | -8.9 | 8.4 | 0.5 | 9 | J |

AUG. 7, 1982 219

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 643 | 17.4 | 348 | J | 13.5 | -16 | 119 | -5.9 | 10.1 | -4.6 | 5 | J |
| 2 | 623 | 15.5 | 300 | J | 13.2 | -10 | 121 | -6.6 | 10.5 | -3.8 | 2 | J |
| 3 | 577 | 18.7 | 0 | C | | | | | | | | |
| 4 | 557 | 19.4 | 0 | C | | | | | | | | |
| 5 | 551 | 19.6 | 0 | C | | | | | | | | |
| 6 | 559 | 12.6 | 313 | J | 13.3 | -41 | 230 | -6.0 | -9.4 | -5.3 | 5 | J |
| 7 | 533 | 15.0 | 143 | J | 19.2 | -27 | 150 | -13.8 | 4.3 | -10.5 | 7 | J |
| 8 | 508 | 14.4 | 171 | J | 21.7 | 30 | 168 | -17.6 | 7.7 | 7.9 | 6 | J |
| 9 | 562 | 17.0 | 331 | J | 19.0 | 21 | 153 | -12.2 | 7.9 | 1.9 | 13 | J |
| 10 | 559 | 22.4 | 372 | J | 14.4 | -57 | 245 | -2.9 | -10.6 | -6.5 | 7 | J |
| 11 | 553 | 14.5 | 132 | J | | | | | | | | |
| 12 | 541 | 19.9 | 88 | J | | | | | | | | |
| 13 | 524 | 7.5 | 74 | J | | | | | | | | |
| 14 | 485 | 6.4 | 147 | J | | | | | | | | |
| 15 | 470 | 3.2 | 0 | C | | | | | | | | |
| 16 | 548 | 14.7 | 0 | C | | | | | | | | |
| 17 | 565 | 23.4 | 0 | C | | | | | | | | |
| 18 | 539 | 15.7 | 0 | C | | | | | | | | |
| 19 | 548 | 7.9 | 73 | J | 12.8 | 41 | 178 | -9.3 | 1.9 | 7.8 | 3 | J |
| 20 | 561 | 11.0 | 46 | J | 12.0 | 31 | 172 | -9.8 | 2.3 | 5.6 | 3 | J |
| 21 | 543 | 6.6 | 42 | J | 11.5 | 38 | 183 | -8.9 | 0.4 | 7.0 | 2 | J |
| 22 | 550 | 6.7 | 45 | J | 11.2 | 29 | 190 | -9.5 | -1.1 | 5.5 | 1 | J |
| 23 | 547 | 4.8 | 37 | J | 11.7 | 18 | 186 | -10.5 | -0.8 | 3.5 | 3 | J |
| 24 | 547 | 4.3 | 35 | J | 12.2 | 9 | 185 | -11.5 | -0.8 | 1.9 | 2 | J |

AUG. 8, 1982 220

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5[illegible]5 | 4.4 | 43 | J | 14.9 | 7 | 181 | -13.2 | -0.0 | 1.6 | 4 | J |
| 2 | 5[illegible]0 | 5.8 | 49 | J | 14.1 | 13 | 181 | -13.0 | 0.2 | 3.0 | 2 | J |
| 3 | 491 | 6.6 | 0 | C | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 507 | 6.6 | 0 | C | | | | | | | | |
| 7 | 507 | 6.6 | 0 | C | | | | | | | | |
| 8 | 499 | 6.1 | 0 | C | | | | | | | | |
| 9 | 508 | 6.3 | 0 | C | | | | | | | | |
| 10 | 540 | 8.3 | 0 | C | | | | | | | | |
| 11 | 524 | 8.4 | 0 | C | | | | | | | | |
| 12 | 518 | 8.6 | 0 | C | | | | | | | | |
| 13 | 532 | 9.9 | 0 | C | | | | | | | | |
| 14 | 517 | 11.4 | 0 | C | | | | | | | | |
| 15 | 519 | 12.3 | 0 | C | | | | | | | | |
| 16 | 507 | 12.5 | 0 | C | | | | | | | | |
| 17 | 512 | 13.3 | 0 | C | | | | | | | | |
| 18 | 435 | 13.7 | 0 | C | | | | | | | | |
| 19 | 478 | 13.0 | 0 | C | | | | | | | | |
| 20 | 489 | 15.1 | 0 | C | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 477 | 10.7 | 0 | C | | | | | | | | |
| 23 | 477 | 10.7 | 0 | C | | | | | | | | |
| 24 | 468 | 10.1 | 0 | C | | | | | | | | |

AUG. 9, 1982 221

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 447 | 9.4 | 0 | C | | | | | | | | |
| 2 | 437 | 7.7 | 0 | C | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 424 | 10.0 | 0 | C | | | | | | | | |
| 6 | 424 | 10.0 | 0 | C | | | | | | | | |
| 7 | 454 | 10.0 | 0 | C | | | | | | | | |
| 8 | 460 | 10.6 | 0 | C | | | | | | | | |
| 9 | 489 | 16.3 | 0 | C | | | | | | | | |
| 10 | 488 | 12.7 | 0 | C | | | | | | | | |
| 11 | 486 | 13.0 | 0 | C | | | | | | | | |
| 12 | 475 | 11.5 | 0 | C | | | | | | | | |
| 13 | 475 | 11.5 | 0 | C | | | | | | | | |
| 14 | 490 | 11.3 | 0 | C | | | | | | | | |
| 15 | 495 | 11.6 | 0 | C | | | | | | | | |
| 16 | 497 | 12.9 | 0 | C | | | | | | | | |
| 17 | 501 | 14.2 | 0 | C | | | | | | | | |
| 18 | 501 | 14.3 | 0 | C | | | | | | | | |
| 19 | 527 | 15.0 | 0 | C | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 519 | 14.2 | 0 | C | | | | | | | | |
| 22 | 519 | 14.2 | 0 | C | | | | | | | | |
| 23 | 536 | 12.1 | 0 | C | | | | | | | | |
| 24 | 518 | 12.1 | 0 | C | | | | | | | | |

AUG. 10, 1982 222

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 521 | 11.7 | 0 | C | | | | | | | | |
| 2 | 525 | 11.6 | 0 | C | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 549 | 10.3 | 0 | C | | | | | | | | |
| 6 | 549 | 10.3 | 0 | C | | | | | | | | |
| 7 | 545 | 10.2 | 0 | C | | | | | | | | |
| 8 | 539 | 9.1 | 0 | C | | | | | | | | |
| 9 | 552 | 9.0 | 0 | C | | | | | | | | |
| 10 | 530 | 8.9 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 500 | 7.9 | 0 | C | | | | | | | | |
| 13 | 500 | 7.9 | 0 | C | | | | | | | | |
| 14 | 489 | 7.6 | 0 | C | | | | | | | | |
| 15 | 502 | 7.8 | 0 | C | | | | | | | | |
| 16 | 501 | 7.8 | 0 | C | | | | | | | | |
| 17 | 502 | 7.9 | 0 | C | | | | | | | | |
| 18 | 502 | 7.1 | 0 | C | | | | | | | | |
| 19 | 482 | 7.1 | 0 | C | | | | | | | | |
| 20 | 487 | 7.1 | 0 | C | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 500 | 7.1 | 0 | C | | | | | | | | |
| 23 | 500 | 7.1 | 0 | C | | | | | | | | |
| 24 | 495 | 6.9 | 0 | C | | | | | | | | |

# 08/11/82 – 08/18/82

AUG. 11, 1982 223

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 512 | 7.4 | 0 | C | | | | | | | | |
| 2 | 494 | 7.4 | 0 | C | | | | | | | | |
| 3 | 467 | 7.5 | 0 | C | | | | | | | | |
| 4 | 467 | 7.5 | 0 | C | | | | | | | | |
| 5 | 486 | 7.4 | 0 | C | | | | | | | | |
| 6 | 477 | 8.3 | 0 | C | | | | | | | | |
| 7 | 475 | 8.3 | 0 | C | | | | | | | | |
| 8 | 471 | 8.6 | 0 | C | | | | | | | | |
| 9 | 473 | 9.2 | 0 | C | | | | | | | | |
| 10 | 476 | 8.6 | 0 | C | | | | | | | | |
| 11 | 458 | 8.8 | 0 | C | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 463 | 7.8 | 0 | C | | | | | | | | |
| 15 | 463 | 7.8 | 0 | C | | | | | | | | |
| 16 | 478 | 7.4 | 0 | C | | | | | | | | |
| 17 | 525 | 8.3 | 0 | C | | | | | | | | |
| 18 | 487 | 7.9 | 0 | C | | | | | | | | |
| 19 | 479 | 7.4 | 0 | C | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 478 | 7.2 | 0 | C | | | | | | | | |
| 23 | 478 | 7.2 | 0 | C | | | | | | | | |
| 24 | 470 | 7.4 | 0 | C | | | | | | | | |

AUG. 12, 1982 224

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 498 | 9.8 | 0 | C | | | | | | | | |
| 2 | 493 | 9.0 | 0 | C | | | | | | | | |
| 3 | 482 | 8.0 | 0 | C | | | | | | | | |
| 4 | 465 | 7.0 | 0 | C | | | | | | | | |
| 5 | 450 | 6.3 | 0 | C | | | | | | | | |
| 6 | 445 | 5.7 | 0 | C | | | | | | | | |
| 7 | 457 | 5.2 | 0 | C | | | | | | | | |
| 8 | 463 | 4.9 | 0 | C | | | | | | | | |
| 9 | 484 | 4.6 | 0 | C | | | | | | | | |
| 10 | 556 | 4.3 | 0 | C | | | | | | | | |
| 11 | 593 | 4.4 | 0 | C | | | | | | | | |
| 12 | 581 | 4.5 | 0 | C | | | | | | | | |
| 13 | 524 | 3.8 | 0 | C | | | | | | | | |
| 14 | 524 | 3.8 | 0 | C | | | | | | | | |
| 15 | 531 | 3.8 | 0 | C | | | | | | | | |
| 16 | 467 | 3.8 | 0 | C | | | | | | | | |
| 17 | 419 | 4.6 | 0 | C | | | | | | | | |
| 18 | 466 | 4.0 | 0 | C | | | | | | | | |
| 19 | 390 | 5.0 | 0 | C | | | | | | | | |
| 20 | 387 | 4.3 | 0 | C | | | | | | | | |
| 21 | 370 | 4.6 | 0 | C | | | | | | | | |
| 22 | 382 | 3.9 | 0 | C | | | | | | | | |
| 23 | 382 | 3.9 | 0 | C | | | | | | | | |
| 24 | 406 | 3.8 | 0 | C | | | | | | | | |

AUG. 13, 1982 225

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 431 | 3.5 | 0 | C | | | | | | | | |
| 2 | 394 | 3.5 | 0 | C | | | | | | | | |
| 3 | 453 | 3.3 | 0 | C | | | | | | | | |
| 4 | 453 | 3.3 | 0 | C | | | | | | | | |
| 5 | 440 | 3.6 | 0 | C | | | | | | | | |
| 6 | 426 | 3.5 | 0 | C | | | | | | | | |
| 7 | 415 | 3.6 | 0 | C | | | | | | | | |
| 8 | 429 | 4.0 | 0 | C | | | | | | | | |
| 9 | 425 | 4.0 | 0 | C | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 395 | 5.0 | 0 | C | | | | | | | | |
| 12 | 294 | 8.2 | 0 | C | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 377 | 3.8 | 0 | C | | | | | | | | |
| 15 | 355 | 6.3 | 0 | C | | | | | | | | |
| 16 | 456 | 13.7 | 0 | C | | | | | | | | |
| 17 | 489 | 6.9 | 0 | C | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 363 | 5.1 | 0 | C | | | | | | | | |
| 20 | 313 | 7.8 | 0 | C | | | | | | | | |
| 21 | 376 | 4.3 | 0 | C | | | | | | | | |
| 22 | 376 | 4.3 | 0 | C | | | | | | | | |
| 23 | 418 | 4.0 | 0 | C | | | | | | | | |
| 24 | 425 | 4.1 | 0 | C | | | | | | | | |

AUG. 14, 1982 226

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 386 | 4.5 | 0 | C | | | | | | | | |
| 2 | 373 | 4.1 | 0 | C | | | | | | | | |
| 3 | 392 | 3.8 | 0 | C | | | | | | | | |
| 4 | 382 | 3.9 | 0 | C | | | | | | | | |
| 5 | 391 | 4.0 | 0 | C | | | | | | | | |
| 6 | 393 | 4.0 | 0 | C | | | | | | | | |
| 7 | 396 | 4.2 | 0 | C | | | | | | | | |
| 8 | 400 | 4.5 | 0 | C | | | | | | | | |
| 9 | 398 | 4.9 | 0 | C | | | | | | | | |
| 10 | 416 | 4.8 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 374 | 6.0 | 0 | C | | | | | | | | |
| 14 | 376 | 5.4 | 48 | J | 7.1 | 10 | 137 | -4.4 | 4.1 | -1.0 | 3 | J |
| 15 | 368 | 5.4 | 33 | J | 6.8 | 5 | 125 | -3.5 | 4.7 | -1.7 | 3 | J |
| 16 | 368 | 5.5 | 29 | J | 6.7 | -18 | 99 | -0.9 | 4.6 | -4.0 | 3 | J |
| 17 | 349 | 7.1 | 0 | C | 6.7 | -13 | 99 | -0.9 | 4.7 | -3.0 | 4 | J |
| 18 | 345 | 6.3 | 23 | J | 6.6 | 35 | 152 | -4.2 | 3.1 | 2.6 | 3 | J |
| 19 | 362 | 6.5 | 25 | J | 6.9 | -18 | 123 | -3.0 | 4.0 | -2.8 | 4 | J |
| 20 | 372 | 6.2 | 22 | J | 6.8 | -23 | 102 | -1.2 | 5.1 | -3.5 | 2 | J |
| 21 | 349 | 6.4 | 25 | J | 6.8 | -19 | 119 | -2.9 | 4.8 | -2.8 | 2 | J |
| 22 | 366 | 6.7 | 28 | J | 6.4 | -6 | 99 | -0.9 | 5.7 | -1.4 | 2 | J |
| 23 | 346 | 7.3 | 30 | J | 6.4 | -14 | 131 | -3.4 | 3.8 | -1.8 | 3 | J |
| 24 | 335 | 9.2 | 0 | C | | | | | | | | |

AUG. 15, 1982 227

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 335 | 9.2 | 0 | C | | | | | | | | |
| 2 | 345 | 7.1 | 27 | J | 6.5 | 28 | 165 | -3.5 | 1.3 | 1.7 | 5 | J |
| 3 | 321 | 6.5 | 30 | J | 6.7 | 5 | 190 | -6.1 | -0.9 | 0.8 | 3 | J |
| 4 | 324 | 6.2 | 29 | J | 6.5 | 1 | 152 | -5.2 | 2.7 | -0.6 | 3 | J |
| 5 | 299 | 6.9 | 93 | L | 7.2 | 18 | 180 | -6.8 | 0.7 | 2.1 | 2 | J |
| 6 | 317 | 9.1 | 0 | C | | | | | | | | |
| 7 | 323 | 8.8 | 0 | C | | | | | | | | |
| 8 | 323 | 8.8 | 0 | C | | | | | | | | |
| 9 | 309 | 5.1 | 20 | J | 6.1 | 14 | 168 | -5.5 | 1.7 | 0.7 | 2 | J |
| 10 | 313 | 6.2 | 24 | J | 6.4 | 14 | 158 | -5.5 | 2.7 | 0.2 | 2 | J |
| 11 | 309 | 6.3 | 22 | J | 6.6 | 10 | 162 | -5.9 | 2.2 | -0.0 | 2 | J |
| 12 | 308 | 5.7 | 22 | J | 6.2 | -3 | 163 | -5.6 | 1.3 | -1.1 | 1 | J |
| 13 | 306 | 5.6 | 21 | J | 6.1 | 8 | 160 | -5.3 | 2.1 | -0.3 | 2 | J |
| 14 | 298 | 10.0 | 0 | C | | | | | | | | |
| 15 | 298 | 10.0 | 0 | C | | | | | | | | |
| 16 | 292 | 10.3 | 0 | C | | | | | | | | |
| 17 | 294 | 10.8 | 0 | C | | | | | | | | |
| 18 | 291 | 11.2 | 0 | C | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 307 | 8.5 | 23 | J | 6.9 | 7 | 139 | -4.9 | 4.4 | -0.0 | 2 | J |
| 21 | 307 | 8.2 | 19 | J | 7.1 | 7 | 139 | -4.9 | 4.4 | 0.1 | 2 | J |
| 22 | 301 | 7.6 | 25 | J | 7.0 | -21 | 154 | -5.8 | 2.5 | -2.8 | 1 | J |
| 23 | 314 | 11.1 | 25 | J | 4.7 | 79 | 116 | -0.2 | 0.6 | 1.8 | 5 | J |
| 24 | 297 | 10.1 | 37 | J | 2.3 | 69 | 41 | 0.6 | 0.8 | 1.9 | 1 | J |

AUG. 16, 1982 228

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 308 | 11.1 | 23 | J | 6.2 | 6 | 336 | 5.5 | -2.3 | 1.0 | 1 | J |
| 2 | 307 | 11.7 | 20 | J | 6.4 | 15 | 337 | 5.5 | -2.0 | 2.0 | 1 | J |
| 3 | 310 | 12.9 | 20 | J | 6.3 | -6 | 332 | 4.8 | -2.6 | 0.0 | 3 | J |
| 4 | 312 | 14.8 | 30 | J | 6.6 | -17 | 316 | 4.3 | -4.5 | -0.6 | 2 | J |
| 5 | 319 | 15.0 | 26 | J | | | | | | | | |
| 6 | 312 | 13.7 | 24 | J | | | | | | | | |
| 7 | 314 | 13.0 | 21 | J | 6.5 | -13 | 316 | 4.3 | -4.4 | 0.5 | 2 | J |
| 8 | 312 | 12.9 | 23 | J | 6.9 | -13 | 312 | 4.5 | -5.2 | 0.9 | 1 | J |
| 9 | 313 | 13.6 | 51 | J | 7.5 | -10 | 318 | 5.2 | -4.7 | 1.2 | 2 | J |
| 10 | 295 | 18.3 | 0 | C | | | | | | | | |
| 11 | 293 | 16.5 | 0 | C | | | | | | | | |
| 12 | 292 | 19.0 | 0 | C | | | | | | | | |
| 13 | 303 | 19.5 | 0 | C | | | | | | | | |
| 14 | 295 | 19.8 | 0 | C | | | | | | | | |
| 15 | 295 | 19.8 | 0 | C | | | | | | | | |
| 16 | 322 | 13.6 | 25 | J | 7.6 | -36 | 312 | 3.8 | -5.5 | -2.1 | 3 | J |
| 17 | 313 | 15.3 | 30 | J | 8.1 | -14 | 326 | 3.6 | -2.7 | -0.2 | 7 | J |
| 18 | 318 | 15.8 | 37 | J | 8.7 | 28 | 320 | 5.5 | -3.3 | 5.0 | 3 | J |
| 19 | 322 | 18.6 | 39 | J | 9.1 | 18 | 311 | 4.9 | -4.9 | 3.7 | 5 | J |
| 20 | 325 | 17.2 | 36 | J | 9.8 | -17 | 303 | 4.7 | -7.6 | -1.2 | 4 | J |
| 21 | 321 | 17.7 | 32 | J | 10.0 | -41 | 303 | 4.0 | -7.1 | -5.3 | 2 | J |
| 22 | 320 | 18.8 | 36 | J | 10.1 | -37 | 311 | 5.1 | -6.7 | -5.0 | 2 | J |
| 23 | 325 | 16.5 | 33 | J | 11.1 | -24 | 304 | 5.4 | -8.4 | -3.2 | 4 | J |
| 24 | 329 | 17.9 | 28 | J | 10.8 | -55 | 283 | 1.1 | -5.7 | -6.2 | 7 | J |

AUG. 17, 1982 229

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 333 | 15.2 | 49 | J | 10.5 | -21 | 313 | 5.3 | -6.1 | -2.1 | 6 | J |
| 2 | 341 | 13.7 | 60 | J | 11.5 | 39 | 314 | 5.7 | -4.6 | 7.7 | 4 | J |
| 3 | 348 | 12.2 | 63 | J | 12.3 | 5 | 301 | 5.7 | -9.1 | 3.1 | 5 | J |
| 4 | 366 | 11.1 | 69 | J | 12.9 | -2 | 305 | 6.0 | -8.4 | 2.0 | 7 | J |
| 5 | 372 | 17.8 | 27 | J | 13.0 | -70 | 250 | -1.5 | -7.7 | -10.0 | 3 | J |
| 6 | 355 | 11.9 | 39 | J | 14.0 | -31 | 294 | 4.7 | -12.3 | -2.5 | 4 | J |
| 7 | 350 | 10.4 | 41 | J | 14.2 | -19 | 300 | 6.5 | -12.1 | 0.6 | 3 | J |
| 8 | 361 | 13.0 | 52 | J | 13.7 | -18 | 302 | 6.6 | -11.2 | 1.2 | 4 | J |
| 9 | 348 | 10.3 | 54 | J | 14.2 | 15 | 310 | 8.4 | -7.0 | 7.9 | 4 | J |
| 10 | 346 | 10.5 | 117 | J | 14.2 | 18 | 309 | 8.4 | -6.8 | 9.0 | 2 | J |
| 11 | 354 | 17.6 | 0 | C | | | | | | | | |
| 12 | 354 | 17.6 | 0 | C | | | | | | | | |
| 13 | 347 | 21.2 | 0 | C | | | | | | | | |
| 14 | 343 | 24.8 | 0 | C | | | | | | | | |
| 15 | 343 | 26.2 | 0 | C | | | | | | | | |
| 16 | 348 | 26.2 | 0 | C | | | | | | | | |
| 17 | 346 | 26.8 | 0 | C | | | | | | | | |
| 18 | 360 | 19.1 | 65 | J | 13.3 | 15 | 300 | 6.1 | -9.1 | 6.2 | 4 | J |
| 19 | 356 | 20.0 | 62 | J | 13.4 | -16 | 299 | 5.9 | -11.2 | -0.8 | 4 | J |
| 20 | 358 | 21.3 | 76 | J | 12.4 | -41 | 310 | 5.4 | -7.7 | -5.9 | 6 | J |
| 21 | 364 | 20.4 | 113 | J | 12.3 | 20 | 317 | 7.1 | -6.0 | 4.6 | 6 | J |
| 22 | 376 | 16.9 | 83 | J | 13.5 | -6 | 300 | 6.1 | -10.7 | 0.2 | 6 | J |
| 23 | 374 | 18.1 | 69 | J | 13.4 | -26 | 305 | 5.6 | -8.6 | -3.6 | 8 | J |
| 24 | 364 | 24.4 | 0 | C | | | | | | | | |

AUG. 18, 1982 230

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 17.0 | 97 | J | 13.7 | -11 | 307 | 7.6 | -10.3 | -0.8 | 5 | J |
| 2 | 372 | 17.8 | 97 | J | 13.3 | 12 | 308 | 7.0 | -8.4 | 4.1 | 6 | J |
| 3 | 380 | 18.1 | 83 | J | 13.3 | 35 | 284 | 2.5 | -8.1 | 9.3 | 4 | J |
| 4 | 369 | 18.0 | 101 | J | 12.7 | -20 | 315 | 5.7 | -5.5 | -1.3 | 10 | J |
| 5 | 362 | 13.3 | 95 | L | | | | | | | | |
| 6 | 422 | 18.3 | 0 | C | | | | | | | | |
| 7 | 436 | 11.5 | 198 | J | 12.7 | 48 | 345 | 7.2 | 1.7 | 8.4 | 6 | J |
| 8 | 418 | 10.1 | 128 | J | 12.5 | 23 | 320 | 7.8 | -3.8 | 6.8 | 6 | J |
| 9 | 421 | 9.7 | 139 | J | 12.2 | 15 | 329 | 8.4 | -3.1 | 4.8 | 7 | J |
| 10 | 431 | 9.8 | 145 | J | 13.0 | 18 | 309 | 7.7 | -6.1 | 8.2 | 2 | J |
| 11 | 442 | 10.3 | 166 | J | 12.5 | 16 | 315 | 7.7 | -4.9 | 6.7 | 5 | J |
| 12 | 424 | 10.1 | 129 | J | 12.5 | 12 | 322 | 9.2 | -4.8 | 5.8 | 4 | J |
| 13 | 435 | 14.2 | 0 | C | | | | | | | | |
| 14 | 435 | 12.9 | 0 | C | | | | | | | | |
| 15 | 439 | 12.4 | 0 | C | | | | | | | | |
| 16 | 429 | 11.2 | 0 | C | | | | | | | | |
| 17 | 439 | 10.7 | 0 | C | | | | | | | | |
| 18 | 446 | 11.1 | 0 | C | | | | | | | | |
| 19 | 449 | 12.8 | 0 | C | 11.5 | -1 | 340 | 7.0 | -2.5 | 0.5 | 9 | J |
| 20 | | | | | 11.3 | -28 | 346 | 8.9 | -3.2 | -4.3 | 4 | J |
| 21 | 431 | 14.8 | 0 | C | 11.2 | 11 | 324 | 8.1 | -5.5 | 2.9 | 5 | J |
| 22 | 428 | 9.4 | 87 | J | 11.1 | 36 | 329 | 7.2 | -3.4 | 6.7 | 4 | J |
| 23 | 423 | 9.1 | 90 | J | 11.3 | -4 | 305 | 6.0 | -8.5 | 0.5 | 4 | J |
| 24 | 430 | 9.4 | 106 | J | 11.2 | 2 | 302 | 5.7 | -9.0 | 1.7 | 3 | J |

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AUG. 19, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 432 | 9.0 | 113 | J | 11.1 | -4 | 300 | 5.5 | -9.5 | 0.8 | 1 | J |
| 2 | 445 | 9.2 | 98 | J | 10.9 | 6 | 303 | 5.8 | -8.5 | 2.8 | 1 | J |
| 3 | 426 | 9.1 | 77 | J | 10.9 | 23 | 318 | 7.3 | -5.4 | 5.6 | 2 | J |
| 4 | 421 | 13.2 | 0 | C | | | | | | | | |
| 5 | 424 | 13.7 | 0 | C | | | | | | | | |
| 6 | 438 | 8.9 | 76 | J | 10.5 | 12 | 309 | 6.2 | -6.3 | 4.8 | 3 | J |
| 7 | 444 | 8.5 | 98 | J | 10.3 | 13 | 308 | 5.8 | -5.8 | 5.1 | 3 | J |
| 8 | 448 | 12.8 | 0 | C | 9.8 | 7 | 301 | 4.7 | -6.4 | 4.6 | 3 | J |
| 9 | 465 | 9.4 | 117 | J | 9.6 | 0 | 292 | 3.3 | -7.1 | 4.0 | 4 | J |
| 10 | 459 | 9.0 | 124 | J | 9.7 | -23 | 306 | 4.5 | -7.1 | 0.4 | 5 | J |
| 11 | 448 | 9.9 | 152 | J | 8.9 | 8 | 330 | 6.2 | -2.5 | 2.7 | 5 | J |
| 12 | 434 | 9.9 | 186 | J | 8.7 | 7 | 348 | 7.7 | -0.9 | 1.7 | 4 | J |
| 13 | 449 | 9.4 | 134 | J | 8.9 | 21 | 320 | 5.5 | -2.6 | 4.7 | 4 | J |
| 14 | 443 | 9.0 | 85 | J | 8.6 | -14 | 323 | 6.1 | -5.0 | 0.6 | 3 | J |
| 15 | 446 | 12.9 | 0 | C | | | | | | | | |
| 16 | 437 | 13.1 | 0 | C | | | | | | | | |
| 17 | 441 | 13.1 | 0 | C | | | | | | | | |
| 18 | 449 | 13.1 | 0 | C | | | | | | | | |
| 19 | 455 | 9.1 | 109 | J | 7.7 | -13 | 300 | 3.5 | -6.2 | -0.1 | 3 | J |
| 20 | 443 | 9.0 | 124 | J | 8.0 | 9 | 327 | 5.7 | -3.4 | 1.8 | 4 | J |
| 21 | 442 | 8.9 | 122 | J | 8.0 | 18 | 350 | 5.8 | -0.7 | 2.1 | 5 | J |
| 22 | 437 | 8.4 | 102 | J | 8.7 | -5 | 316 | 5.8 | -5.6 | 0.1 | 3 | J |
| 23 | 437 | 8.3 | 78 | J | 8.8 | 18 | 328 | 6.3 | -3.5 | 2.9 | 4 | J |
| 24 | 427 | 8.3 | 63 | J | 8.8 | -8 | 331 | 6.8 | -3.9 | -0.5 | 4 | J |

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| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 456 | 9.5 | 116 | J | 8.1 | 13 | 292 | 2.8 | -6.5 | 2.8 | 3 | J |
| 444 | 9.0 | 122 | J | 8.1 | 30 | 318 | 4.6 | -3.4 | 4.4 | 4 | J |
| 422 | 12.1 | 0 | C | | | | | | | | |
| 426 | 11.7 | 0 | C | | | | | | | | |
| 436 | 11.7 | 0 | C | | | | | | | | |
| 430 | 8.5 | 73 | J | 8.7 | 1 | 312 | 5.6 | -5.6 | 2.5 | 3 | J |
| 444 | 8.8 | 94 | J | 8.2 | 4 | 306 | 4.5 | -5.3 | 3.1 | 3 | J |
| 458 | 8.3 | 82 | J | 8.5 | 23 | 293 | 2.9 | -4.7 | 6.1 | 2 | J |
| 434 | 9.2 | 97 | J | 7.9 | -6 | 320 | 4.3 | -3.4 | 1.3 | 6 | J |
| 415 | 8.7 | 44 | J | 8.4 | 8 | 338 | 6.8 | -1.8 | 2.3 | 4 | J |
| 436 | 9.6 | 71 | J | 8.3 | 6 | 308 | 4.4 | -4.4 | 3.6 | 4 | J |
| 435 | 10.9 | 105 | J | 7.9 | -12 | 318 | 4.5 | -4.1 | 1.0 | 5 | J |
| 438 | 12.3 | 103 | J | 8.3 | -53 | 16 | 4.4 | -2.0 | -5.9 | 3 | J |
| 439 | 11.3 | 82 | J | 7.9 | -15 | 320 | 5.0 | -4.5 | 0.5 | 4 | J |
| 436 | 10.9 | 82 | J | 8.2 | -8 | 309 | 4.5 | -5.5 | 1.6 | 4 | J |
| 427 | 10.7 | 74 | J | 8.3 | 30 | 340 | 6.1 | -0.5 | 4.3 | 3 | J |
| 410 | 10.5 | 30 | J | 8.3 | 12 | 0 | 8.0 | 0.6 | 1.6 | 1 | J |
| 413 | 10.6 | 48 | J | 8.0 | -19 | 334 | 6.5 | -3.8 | -1.4 | 2 | J |
| 410 | 10.2 | 43 | J | 8.1 | 0 | 352 | 7.0 | -1.0 | 0.2 | 4 | J |
| 438 | 11.3 | 113 | J | 8.5 | -33 | 321 | 4.8 | -4.6 | -3.1 | 4 | J |
| 415 | 14.0 | 0 | C | | | | | | | | |
| 442 | 13.8 | 0 | C | | | | | | | | |
| 427 | 13.4 | 0 | C | | | | | | | | |
| 437 | 14.1 | 0 | C | | | | | | | | |

AUG. 21, 1982

233

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 435 | 13.6 | 0 | C | | | | | | | | |
| 2 | 425 | 13.3 | 0 | C | | | | | | | | |
| 3 | 422 | 12.8 | 0 | C | | | | | | | | |
| 4 | 427 | 12.7 | 0 | C | | | | | | | | |
| 5 | 430 | 11.7 | 0 | C | | | | | | | | |
| 6 | 436 | 9.3 | 0 | C | | | | | | | | |
| 7 | 459 | 8.7 | 0 | C | | | | | | | | |
| 8 | 472 | 8.6 | 0 | C | | | | | | | | |
| 9 | 469 | 8.5 | 0 | C | | | | | | | | |
| 10 | 476 | 8.3 | 0 | C | | | | | | | | |
| 11 | 491 | 8.3 | 0 | C | | | | | | | | |
| 12 | 487 | 8.4 | 0 | C | | | | | | | | |
| 13 | 478 | 8.4 | 0 | C | | | | | | | | |
| 14 | 492 | 7.9 | 0 | C | | | | | | | | |
| 15 | 492 | 7.9 | 0 | C | | | | | | | | |
| 16 | 490 | 7.5 | 0 | C | | | | | | | | |
| 17 | 467 | 7.1 | 0 | C | | | | | | | | |
| 18 | 481 | 7.4 | 0 | C | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 445 | 8.2 | 0 | C | | | | | | | | |
| 21 | 466 | 8.0 | 0 | C | | | | | | | | |
| 22 | 442 | 7.9 | 0 | C | | | | | | | | |
| 23 | 462 | 7.3 | 0 | C | | | | | | | | |
| 24 | 437 | 10.1 | 0 | C | | | | | | | | |

AUG. 22, 1982

234

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 450 | 10.2 | 0 | C | | | | | | | | |
| 450 | 10.4 | 0 | C | | | | | | | | |
| 455 | 8.7 | 0 | C | | | | | | | | |
| 465 | 5.9 | 0 | C | | | | | | | | |
| 455 | 6.6 | 0 | C | | | | | | | | |
| 445 | 8.4 | 0 | C | | | | | | | | |
| 450 | 8.8 | 0 | C | | | | | | | | |
| 444 | 8.7 | 0 | C | | | | | | | | |
| 441 | 9.4 | 0 | C | | | | | | | | |
| 451 | 9.6 | 0 | C | | | | | | | | |
| | | | | | | | | | | | |
| 447 | 11.0 | 0 | C | | | | | | | | |
| 447 | 11.0 | 0 | C | | | | | | | | |
| 408 | 12.6 | 0 | C | | | | | | | | |
| 453 | 12.4 | 0 | C | | | | | | | | |
| 422 | 12.0 | 0 | C | | | | | | | | |
| 595 | 13.5 | 0 | C | | | | | | | | |
| 441 | 15.1 | 0 | C | | | | | | | | |
| 441 | 15.1 | 0 | C | | | | | | | | |
| 475 | 15.0 | 0 | C | | | | | | | | |
| 533 | 14.0 | 0 | C | | | | | | | | |
| 504 | 10.4 | 0 | C | | | | | | | | |
| 491 | 11.7 | 0 | C | | | | | | | | |
| 523 | 11.7 | 0 | C | | | | | | | | |

AUG. 23, 1982

235

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 569 | 9.0 | 0 | C | | | | | | | | |
| 2 | 575 | 8.9 | 0 | C | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 519 | 7.7 | 0 | C | | | | | | | | |
| 5 | 519 | 7.7 | 0 | C | | | | | | | | |
| 6 | 528 | 6.9 | 0 | C | | | | | | | | |
| 7 | 508 | 7.5 | 0 | C | | | | | | | | |
| 8 | 505 | 7.3 | 0 | C | | | | | | | | |
| 9 | 726 | 8.9 | 0 | C | | | | | | | | |
| 10 | 586 | 7.1 | 0 | C | | | | | | | | |
| 11 | 637 | 7.5 | 0 | C | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 624 | 7.7 | 0 | C | | | | | | | | |
| 14 | 624 | 7.7 | 0 | C | | | | | | | | |
| 15 | 630 | 7.7 | 0 | C | | | | | | | | |
| 16 | 616 | 7.5 | 0 | C | | | | | | | | |
| 17 | 587 | 7.0 | 0 | C | | | | | | | | |
| 18 | 584 | 6.2 | 0 | C | | | | | | | | |
| 19 | 610 | 6.1 | 0 | C | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 574 | 6.1 | 0 | C | | | | | | | | |
| 22 | 574 | 6.1 | 0 | C | | | | | | | | |
| 23 | 591 | 6.0 | 0 | C | | | | | | | | |
| 24 | 585 | 6.2 | 0 | C | | | | | | | | |

AUG. 24, 1982

236

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 555 | 6.1 | 0 | C | | | | | | | | |
| 528 | 6.0 | 0 | C | | | | | | | | |
| 528 | 5.9 | 0 | C | | | | | | | | |
| 525 | 6.2 | 0 | C | | | | | | | | |
| 547 | 6.6 | 0 | C | | | | | | | | |
| 554 | 7.0 | 0 | C | | | | | | | | |
| 564 | 7.6 | 0 | C | | | | | | | | |
| 554 | 7.7 | 0 | C | | | | | | | | |
| 552 | 7.7 | 0 | C | | | | | | | | |
| 547 | 8.2 | 0 | C | | | | | | | | |
| 535 | 8.6 | 0 | C | | | | | | | | |
| 540 | 8.6 | 0 | C | | | | | | | | |
| 553 | 8.6 | 0 | C | | | | | | | | |
| 549 | 8.5 | 0 | C | | | | | | | | |
| 536 | 8.4 | 0 | C | | | | | | | | |
| 526 | 8.3 | 0 | C | | | | | | | | |
| 520 | 8.6 | 0 | C | | | | | | | | |
| 523 | 8.8 | 0 | C | | | | | | | | |
| 524 | 8.9 | 0 | C | | | | | | | | |
| 523 | 8.9 | 0 | C | | | | | | | | |
| 502 | 8.4 | 0 | C | | | | | | | | |
| 502 | 8.4 | 0 | C | | | | | | | | |
| 513 | 8.5 | 0 | C | | | | | | | | |
| 503 | 8.5 | 0 | C | | | | | | | | |

AUG. 25, 1982

237

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 504 | 8.8 | 0 | C | | | | | | | | |
| 2 | 504 | 8.9 | 0 | C | | | | | | | | |
| 3 | 500 | 9.0 | 0 | C | | | | | | | | |
| 4 | 495 | 9.2 | 0 | C | | | | | | | | |
| 5 | 491 | 9.3 | 0 | C | | | | | | | | |
| 6 | 488 | 9.4 | 0 | C | | | | | | | | |
| 7 | 490 | 9.6 | 0 | C | | | | | | | | |
| 8 | 499 | 9.9 | 0 | C | | | | | | | | |
| 9 | 505 | 9.9 | 0 | C | | | | | | | | |
| 10 | 506 | 10.0 | 0 | C | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 494 | 9.5 | 0 | C | | | | | | | | |
| 14 | 494 | 9.5 | 0 | C | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 463 | 9.9 | 0 | C | | | | | | | | |
| 17 | 463 | 9.9 | 0 | C | | | | | | | | |
| 18 | 467 | 10.0 | 0 | C | | | | | | | | |
| 19 | 469 | 10.2 | 0 | C | | | | | | | | |
| 20 | 474 | 9.8 | 0 | C | | | | | | | | |
| 21 | 474 | 9.8 | 0 | C | | | | | | | | |
| 22 | 468 | 10.0 | 0 | C | | | | | | | | |
| 23 | 472 | 9.5 | 0 | C | | | | | | | | |
| 24 | 467 | 8.8 | 0 | C | | | | | | | | |

AUG. 26, 1982

238

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 478 | 8.5 | 0 | C | | | | | | | | |
| 456 | 9.3 | 0 | C | | | | | | | | |
| 468 | 9.9 | 0 | C | | | | | | | | |
| 471 | 9.8 | 0 | C | | | | | | | | |
| 459 | 10.2 | 0 | C | | | | | | | | |
| 454 | 10.9 | 0 | C | | | | | | | | |
| 462 | 11.5 | 0 | C | | | | | | | | |
| 467 | 12.2 | 0 | C | | | | | | | | |
| 454 | 9.4 | 46 | J | 8.1 | 0 | 332 | 6.1 | -2.8 | 1.7 | 4 | J |
| 494 | 10.7 | 94 | J | 8.3 | 24 | 298 | 2.9 | -3.2 | 5.3 | 4 | J |
| 480 | 11.0 | 106 | J | 9.4 | 23 | 314 | 4.9 | -2.7 | 5.3 | 5 | J |
| 468 | 10.9 | 88 | J | 9.4 | 10 | 24 | 6.9 | 3.3 | -0.5 | 5 | J |
| 474 | 11.5 | 76 | J | 10.1 | -23 | 33 | 6.9 | 2.0 | -5.3 | 5 | J |
| 486 | 13.2 | 117 | J | 10.5 | -35 | 20 | 6.2 | -0.4 | -5.2 | 7 | J |
| 453 | 10.9 | 54 | J | 10.6 | -26 | 352 | 9.2 | -3.2 | -3.4 | 2 | J |
| 446 | 10.1 | 70 | J | 10.0 | -5 | 337 | 8.5 | -3.6 | 0.8 | 4 | J |
| 464 | 11.0 | 90 | J | 8.6 | -4 | 326 | 6.0 | -3.9 | 1.0 | 5 | J |
| 468 | 14.4 | 101 | J | 10.7 | 13 | 305 | 4.9 | -6.0 | 4.1 | 6 | J |
| 534 | 12.3 | 212 | J | 10.3 | 23 | 307 | 3.8 | -4.1 | 3.9 | 8 | J |
| 557 | 11.2 | 223 | J | 8.4 | 6 | 315 | 4.8 | -4.5 | 1.8 | 5 | J |
| 575 | 12.6 | 220 | J | 8.4 | 80 | 359 | 1.1 | 1.1 | 5.9 | 6 | J |
| 556 | 11.6 | 188 | J | 8.7 | 30 | 352 | 6.9 | -0.3 | 4.1 | 3 | J |
| 548 | 10.7 | 160 | J | 9.1 | -5 | 346 | 7.5 | -2.0 | -0.4 | 5 | J |
| 556 | 10.3 | 214 | J | 9.3 | -8 | 305 | 5.0 | -7.2 | 0.0 | 3 | J |

# 08/27/82 – 09/03/82

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HR        VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                   1000  SC  MAGN LAT LON                      SC

                          AUG. 27, 1982                       239

 1        539 12.9   0  C
 2        534 12.6   0  C
 3        540 11.8   0  C
 4        545  9.8   0  C
 5        585  6.2 206  J     9.1   4 311   5.4  -5.6   2.8  4  J
 6        581  7.2   0  C
 7        589  6.9   0  C
 8        577  6.9   0  C
 9        590  5.6 186  J     6.6   8 305   3.1  -3.4   2.9  4  J
10        578  5.8 148  J     6.4   5 311   3.9  -3.5   2.8  2  J
11        582  6.1 178  J     5.6  10 322   3.5  -1.9   2.1  3  J
12        576  5.9 132  J     5.3  27   7   3.9   1.5   1.4  3  J
13        569  6.0 106  J     5.0 -17 340   4.0  -1.9  -0.3  2  J
14        565  6.2 107  J     4.9 -27 349   4.0  -1.7  -1.4  2  J
15        547  9.0   0  C
16        521  8.6   0  C
17        557  6.8 115  J     5.8   7 190  -5.6  -0.7   1.0  1  J
18        544  7.6  99  J     5.8   8 182  -5.6   0.1   0.8  1  J
19        540  8.3  83  J     5.1  11 169  -4.6   1.1   0.6  2  J
20        523  7.7  75  J     4.5  -5 177  -4.3   0.1  -0.4  1  J
21        515  9.4  71  J     4.8   3 184  -4.5  -0.3   0.3  2  J
22        498  9.1  78  J     4.8  -3 182  -4.7  -0.2  -0.2  1  J
23        493  8.8  75  J     5.1   8 180  -4.8   0.1   0.7  2  J
24        382 24.6   0  C

                          AUG. 29, 1982                       241

 1        434 19.3   0  C    11.0  17 120  -4.5   8.3   1.2  6  J
 2        439 19.2   0  C    11.9  18 113  -4.2  10.5   1.2  4  J
 3        447 13.9 152  J    10.9   4 127  -6.0   7.9  -1.4  4  J
 4        462 14.3 172  J
 5        471 13.7 206  J
 6        509 13.5 252  J     9.3 -28 118  -2.3   2.9  -4.1  7  J
 7        490 12.9 196  J    11.2  10 143  -7.2   5.6  -1.0  6  J
 8        504 12.5 203  J    11.4  13 127  -5.9   8.0  -1.9  5  J
 9        500 12.4 184  J    11.4 -34 144  -7.4   1.4  -8.0  3  J
10        498 17.4   0  C
11        512 16.2   0  C
12
13        498 13.2   0  C
14        537  9.8 173  J     9.2  10 130  -5.1   6.0  -1.9  4  J
15        517 12.1   0  C
16        523 11.1   0  C
17        520 11.1   0  C
18        517  9.4 120  J     9.2   1 130  -5.4   6.1  -2.0  4  J
19        512  9.0  88  J     9.0  13 145  -5.8   4.4   0.4  5  J
20        531  8.7 124  J     8.7  -7 124  -3.6   5.0  -2.0  6  J
21        508  8.4  79  J     9.0   5 150  -6.8   4.0  -0.1  4  J
22        539  8.8 120  J     9.0  14 127  -4.4   6.0   0.7  5  J
23        550  9.3 121  J     9.3  29 113  -3.0   7.6   2.9  3  J
24        554  9.8 117  J     9.3  12 104  -2.1   8.5   0.3  3  J

                          AUG. 31, 1982                       243

 1
 2        501  6.5  51  J     5.9  12 169  -5.4   1.3   0.9  2  J
 3        508  6.4  50  J     5.8  -5 166  -4.8   1.0  -0.7  3  J
 4
 5        513  8.2   0  C
 6        513  8.2   0  C
 7        509  7.6  61  J     6.1 -25 167  -4.3  -0.1  -2.3  3  J
 8        491  7.3  74  J     6.2  -3 155  -5.1   1.9  -1.4  3  J
 9        496  7.1  75  J     6.4  15 146  -4.4   3.3  -0.3  3  J
10        500  6.9  61  J     6.4  37 139  -3.6   4.6   1.3  2  J
11        507  7.3  61  J     6.5  22 118  -2.4   4.9  -0.8  3  J
12        517  7.2  64  J     6.5  38  97  -0.6   6.0   0.5  2  J
13        504  7.3  75  J     6.3 -34 141  -3.2   0.7  -3.7  4  J
14        491  7.0  88  J     6.4 -36 200  -4.8  -3.4  -2.3  1  J
15        479  7.8 139  J     6.3   1 148  -4.2   2.4  -1.2  4  J
16        482  8.9   0  C
17        506  7.3  64  J     6.1  24  91  -0.1   5.6   0.2  2  J
18        500  7.1  73  J     5.8  33 111  -1.5   4.7   1.3  3  J
19        473  7.6 131  J     5.4   2 166  -4.2   1.0  -0.1  3  J
20        481  7.4 104  J     5.5  -6 146  -3.6   2.3  -1.0  3  J
21        482  8.3   0  C
22        481  7.5   0  C
23        476  7.3   0  C
24        483  7.4   0  C

                          SEP. 2, 1982                        245

 1        410  9.3  37  J     6.4 -12 141  -4.0   3.0  -1.8  3  J
 2        409 15.8  33  J     6.7  -4 125  -3.5   4.8  -1.6  2  J
 3        406  9.7  57  L     6.4 -31 131  -3.3   2.8  -3.9  3  J
 4        394 16.0  43  J     6.5  12 149  -4.8   3.1   0.2  3  J
 5        409 16.2  38  J     6.8  14 115  -2.3   5.2  -0.6  4  J
 6        433 21.3  34  J     7.0  20  78   1.2   6.1  -0.4  3  J
 7        420 18.2  31  J     6.8  -5  94  -0.4   4.5  -2.9  4  J
 8        339 27.2  56  J
 9        375 14.2   0  C
10        385 14.9   0  C
11
12
13        369 17.3   0  C
14        369 17.3   0  C
15        373 20.2   0  C
16        370 18.1   0  C
17        383 17.3   0  C
18
19
20        398 16.1   0  C
21        398 16.1   0  C
22        391 17.2   0  C
23        392 18.1   0  C
24        397 19.8   0  C
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          VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                   1000  SC  MAGN LAT LON                      SC

                          AUG. 28, 1982                       240

          436 11.4   0  C
          425 12.4   0  C
          446  9.3  68  J     2.5  43 268  -0.0  -0.6   1.0  2  J
          441  9.6  63  J     3.2  61  80   0.3   2.3   2.2  0  J
          440  9.8  68  J     4.2  43 208  -2.6  -0.3   3.1  1  J
          417 11.7   0  C
          420 12.6   0  C
          423 12.5   0  C
          431 10.0  72  J     3.7  34 324   2.5  -0.5   2.7  1  J
          433 11.8  67  J     5.1 -39 285   1.0  -4.8  -0.6  1  J
          430 11.5  89  J     4.9 -44 318   2.3  -3.4  -1.4  2  J
          424 11.0  68  J     5.6 -15 316   3.4  -3.4   0.7  3  J
          424 12.4  33  J     5.4 -15 295   2.0  -4.4   1.2  2  J
          401 19.3   0  C
          402 21.9   0  C
          406 24.0  39  J     6.9 -26 302   3.3  -6.0  -0.5  1  J
          412 29.2  38  J     7.7 -22 306   3.9  -6.0  -0.5  3  J
          416 46.0  38  J     5.1 -27  63   0.9   1.4  -1.6  5  J
          413 26.2   0  C
          413 26.2   0  C
          423 24.4   0  C
          434 21.0   0  C
          434 21.0   0  C    10.5 -11 136  -7.2   6.5  -3.1  3  J
          434 20.5   0  C    10.8  14 118  -4.3   8.4   0.8  5  J

                          AUG. 30, 1982                       242

          549  9.5 134  J     9.0  18 117  -3.6   7.5   1.1  3  J
          550  9.6 132  J     9.5  16 114  -3.4   8.1   0.6  3  J
          561  9.6 161  J     8.5  12 118  -2.8   5.4  -0.2  6  J
          555  9.8 189  J     8.1  -9 153  -6.3   2.7  -2.1  4  J
          552 10.0 192  J     9.8  10 136  -6.3   6.2  -0.8  4  J
          557 10.8 204  J    10.1 -20 138  -5.7   3.6  -4.7  6  J
          552 11.2 216  J    10.5 -22 153  -6.6   1.6  -4.2  7  J
          544 10.6 200  J    10.3  26 148  -6.6   5.4   1.3  6  J
          547  9.8 192  J     8.7   8 159  -6.0   2.4  -0.4  6  J
          579  9.6 222  L     8.3  -2 106  -1.9   5.4  -3.8  4  J
          571 11.4   0  C
          562 11.0   0  C
          553 11.3   0  C
          542  9.3 146  J     9.0 -13 148  -7.0   2.8  -3.9  3  J
          536  8.9 122  J     9.0 -16 157  -7.5   1.7  -3.6  3  J
          532 10.6   0  C



          559  6.6  90  J     6.5   9 147  -4.8   3.2   0.1  3  J
          558  5.9  85  J     6.5  -1 138  -4.0   3.5  -0.8  4  J
          557  5.9  69  J     6.5 -20 150  -5.0   2.5  -2.6  2  J
          547  5.6  80  J     6.3 -13 157  -5.6   2.1  -1.8  1  J
          554  6.3  96  J     5.7  20 112  -1.4   3.8   0.7  4  J

                          SEP. 1, 1982                        244

          477  7.5   0  C
          469  7.5   0  C
          468  7.2   0  C
          469  7.0   0  C
          480  8.2   0  C
          480  8.2   0  C
          466  8.2   0  C
          467  6.2  72  J     4.7  15 164  -3.4   1.3   0.3  3  J
          475  7.0  79  J     5.1  22 222  -2.7  -1.3   2.5  3  J
          471  7.5  82  J     5.0   5 156  -2.7   1.2  -0.4  4  J
          469  7.9  86  J     5.9   6 201  -3.2  -0.8   1.0  5  J
          457  7.0  53  J     5.7 -20 173  -4.8  -0.5  -1.8  3  J
          455  6.9  51  J     5.7 -21 166  -4.9  -0.0  -2.3  2  J
          450  6.7  59  J     5.6  -2 155  -5.1   1.9  -1.4  1  J
          454  7.1  57  J     5.5   2 146  -3.9   2.4  -1.1  3  J
          465  7.7  67  J     5.0  26  43   2.2   2.5   0.4  4  J
          447  9.9   0  C
          421 10.2   0  C
          426 11.4   0  C
          426 11.4   0  C
          410  9.5  33  J     5.9  25 186  -5.0  -0.0   2.4  2  J
          410  9.6  33  J     6.4  18 177  -5.7   0.6   1.8  2  J
          404  9.0  40  J     6.4  -2 171  -5.9   0.9  -0.4  2  J
          421  9.8  36  J     6.5  20 121  -2.4   4.2   0.9  4  J

                          SEP. 3, 1982                        246

          333 12.1 131  J
          401 18.5   0  C
          409 18.6   0  C
          411 18.5   0  C
          416 17.4   0  C
          416 17.4   0  C
          412 17.2   0  C
          411 16.8   0  C
          431 16.9   0  C
          424 17.7   0  C
          429 17.1   0  C
          431 17.0   0  C
          434 17.0   0  C
          411 15.2   0  C
          440 14.8   0  C
          466  7.1   0  C
          509  5.4   0  C
          493  6.0   0  C
          479  6.9   0  C
          467  6.7   0  C
          484  6.7   0  C
          505  5.8   0  C
          482  5.8   0  C
          501  5.4   0  C
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OF POOR QUALITY

09/04/82 – 09/11/82

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HR      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                       SC

                          SEP.  4, 1982                    247

 1      490  7.2    0  C
 2      475  9.3    0  C
 3      469  9.9    0  C
 4
 5      442 13.6    0  C
 6      442 13.6    0  C
 7      449 14.6    0  C
 8      448 16.3    0  C
 9      448 16.7    0  C
10      452 15.6    0  C
11      484 13.3    0  C
12
13      531  7.4    0  C
14      531  7.4    0  C
15      552  6.7    0  C
16      571  6.1    0  C
17      578  5.5    0  C
18      581  5.2    0  C
19
20      568  4.8    0  C
21      568  4.8    0  C
22      596  4.7    0  C
23      606  4.7    0  C
24      585  4.8    0  C

                          SEP.  6, 1982                    249

 1      795 41.7    0  C
 2      796 42.2    0  C
 3
 4
 5      814 37.5    0  C
 6      814 37.5    0  C
 7      779 38.3    0  C
 8      739 24.8    0  C
 9      787 58.2    0  C
10      772 70.5    0  C
11      720 40.2    0  C
12      728 63.3    0  C
13      728 63.3    0  C
14      788 69.4    0  C
15      874 49.1    0  C
16      793 32.3    0  C
17      719 14.9    0  C
18      835  2.1    0  C
19      620  0.9    0  C
20      620  0.9    0  C
21      598  1.2    0  C
22      557  1.7    0  C
23      569  2.0    0  C
24      569  2.1    0  C

                          SEP.  8, 1982                    251

 1      493  5.4    0  C
 2
 3
 4
 5
 6      487  5.0    0  C
 7      487  5.0    0  C  11.6  60 212   -4.9    2.0   10.2  2  J
 8      506  5.8    0  C  11.5  32 187   -8.7    1.9    5.2  5  J
 9      538  6.6    0  C
10      479  6.7    0  C  10.9  -9 175   -7.1   -0.1   -1.3  8  J
11      494  6.7    0  C  11.5  22 200   -8.4   -0.5    4.7  6  J
12      517  8.9    0  C  14.3  28 334   11.3   -0.8    8.6  1  J
13      604 11.0    0  C  15.0  29 333   11.5   -1.0    9.2  2  J
14      640 12.6    0  C  15.1  32 337   11.7   -0.1    9.4  1  J
15      636 15.0    0  C
16      626 16.2    0  C
17      596 19.4    0  C
18      594 15.5    0  C  14.9  34 330   10.5   -2.9    9.7  3  J
19                        13.9  17 315    8.5   -7.0    6.0  6  J
20                        15.4  44 359    9.1    2.1    8.5  9  J
21                        16.2  43 348   11.2    0.1   11.0  4  J
22                        15.1  34 332    5.1   -1.8    4.3 14  J
23      631 13.1    0  C  18.6  12 324   14.6   -9.6    5.8  3  J
24      631 13.1    0  C  17.3  25 323   10.2   -6.3    7.4 10  J

                          SEP. 10, 1982                    253

 1      567  8.6    0  C
 2      564  7.7    0  C
 3      539  8.9    0  C
 4      507  9.6    0  C
 5      499  9.0    0  C
 6      493  7.9    0  C
 7      498  7.0    0  C
 8      499  6.6    0  C
 9      491  6.6    0  C
10      495  6.8    0  C
11      494  6.8    0  C
12      481  6.7    0  C   8.4  33 335    5.1    0.1    4.4  5  J
13      486  7.1    0  C   8.4  30 338    6.3    0.0    4.6  3  J
14      495 14.6   49  J   8.5  17   9    7.5    2.2    1.4  3  J
15      480  7.7    0  C
16      465  7.5    0  C
17      462  7.8    0  C
18      496 15.5   52  J   8.2  37 319    4.1   -1.9    5.1  5  J
19      506 11.2   93  J   8.0  24 328    4.9   -2.1    3.4  5  J
20      511 11.4   69  J   7.8  29 306    3.5   -3.8    4.4  4  J
21      482 10.4   57  J   8.5  -3 316    5.1   -4.9    0.8  4  J
22      475  7.1   40  J   8.5  17 321    5.2   -3.7    2.9  5  J
23      486  8.5    0  C
24      489  9.2    0  C
```

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        VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                       SC

                          SEP.  5, 1982                    248

        568  5.2    0  C
        533  6.0    0  C
        523  6.0    0  C
        527  6.0    0  C
        518  6.0    0  C
        534  6.0    0  C
        541  6.6    0  C
        519  7.0    0  C
        502  7.0    0  C
        499  7.2    0  C
        490  7.1    0  C
        502  6.7    0  C
        505  6.5    0  C
        502  6.4    0  C
        506  6.4    0  C
        496  6.7    0  C
        495  6.8    0  C
        508  6.7    0  C
        507  6.3    0  C
        494  6.3    0  C
        487  6.4    0  C

        726 25.2    0  C
        726 25.2    0  C

                          SEP.  7, 1982                    250

        591  3.3    0  C
        596  3.3    0  C


        584  3.2    0  C
        584  3.2    0  C
        553  3.2    0  C
        517  3.8    0  C
        527  4.2    0  C
        568  4.4    0  C
        591  5.1    0  C
        590  5.7    0  C
        527  5.0    0  C
        495  4.7    0  C
        521  5.0    0  C
        517  5.5    0  C
        518  5.8    0  C
        512  5.7    0  C
        503  5.9    0  C
        498  5.9    0  C
        469  5.9    0  C
        478  6.2    0  C
        484  6.1    0  C
        489  5.3    0  C

                          SEP.  9, 1982                    252

        663 22.4  137  J  18.1  67  31    5.9    7.0   15.0  4  J
        717 73.3  289  J   9.4  44 285    1.0   -2.6    4.5  8  J
        719 59.6  114  J  12.1  36 291    3.0   -5.6    8.0  7  J
        753 32.3  153  J  11.7  31  35    7.0    6.3    3.2  6  J
        710 27.9  166  J  10.0  43  13    6.9    4.0    5.5  2  J
        837 18.7  160  J  10.4  60   9    4.7    4.2    7.1  4  J
        757 30.4    0  C
        743 18.1    0  C
        671 11.7    0  C   7.9  50   9    4.7    3.7    4.4  3  J
        815 21.9  196  J   9.2  67 345    3.1    3.6    6.8  4  J
        751 31.2  150  J   7.6  67 295    0.6    0.8    3.5  7  J
        757 34.2  206  J   3.4  33 187   -0.6    0.2    0.4  4  J
        730 26.1  191  J   5.0  35 228   -2.1   -0.8    3.2  3  J
        697 23.3  131  J   5.7   4 240   -2.7   -3.9    2.8  2  J
        654  8.4    0  C
        651  6.8    0  C
        712 14.9    0  C
        702 14.7    0  C
        676 16.0    0  C
        635 31.4   82  J   3.7 -26 162   -3.0    0.5   -1.7  1  J
        702 37.6  159  J   4.9 -48 148   -2.7    0.8   -3.8  1  J
        618 44.9   53  J
        616 35.6   81  J   3.5   6 150   -2.9    1.7    0.0  1  J
        619 14.1   55  J   3.2   7 173   -2.4    0.3    0.2  2  J

                          SEP. 11, 1982                    254

        473  9.2    0  C
        490  9.1    0  C
        497  9.1    0  C


        452  9.1    0  C
        457  9.2   76  J   9.0 -11 328    6.7   -4.4    0.6  4  J
        458  9.6   73  J   9.2  -4 321    5.9   -4.4    2.0  5  J
        484 14.7   59  J   9.1   4 302    3.8   -4.9    3.7  6  J
        441  9.7    0  C   8.9 -20 334    6.0   -3.8   -0.4  5  J
        468 10.0  277  J   8.7 -21  24    5.5    0.7   -3.3  6  J
        420  9.9    0  C   8.9  -8 284    2.1   -7.6    3.7  2  J
        459  9.7    0  C
        459  9.7    0  C
        443  9.1    0  C
        447  8.6    0  C
        445  9.4    0  C
        460 10.5    0  C
        485 12.9    0  C
        482 13.1    0  C
        442 11.9    0  C
        433 11.5    0  C
        431 10.6    0  C
        441 10.0    0  C
```

## 09/12/82 – 09/19/82

SEP. 12, 1982 255

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 446 | 7.0 | 100 | J | 7.7 | -6 | 310 | 3.8 | -4.5 | 0.4 | 5 | J |
| 2 | 482 | 9.5 | 166 | J | 8.2 | -11 | 283 | 1.7 | -7.3 | 0.4 | 3 | J |
| 3 | 476 | 11.7 | 119 | J | 9.0 | -9 | 291 | 2.7 | -7.1 | 0.9 | 4 | J |
| 4 | 457 | 9.8 | 206 | J | 8.7 | -22 | 335 | 4.9 | -2.9 | -1.3 | 6 | J |
| 5 | 458 | 8.2 | 203 | J | 8.4 | -20 | 306 | 4.1 | -6.3 | -0.2 | 4 | J |
| 6 | 422 | 9.7 | 0 | C | 8.2 | -12 | 311 | 4.0 | -4.8 | 0.8 | 5 | J |
| 7 | 452 | 8.8 | 162 | J | 8.6 | -26 | 306 | 3.5 | -5.7 | -0.2 | 5 | J |
| 8 | 443 | 7.0 | 122 | J | 8.5 | -16 | 316 | 5.0 | -5.1 | 0.8 | 4 | J |
| 9 | 488 | 13.7 | 110 | J | 8.8 | -24 | 301 | 3.8 | -7.1 | 0.7 | 3 | J |
| 10 | 455 | 11.3 | 110 | J | 8.9 | -7 | 312 | 4.6 | -4.7 | 2.2 | 6 | J |
| 11 | 454 | 8.4 | 120 | J | 9.2 | 11 | 309 | 5.3 | -4.5 | 5.1 | 3 | J |
| 12 | 417 | 10.3 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 412 | 9.0 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 405 | 8.7 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 407 | 8.7 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 408 | 8.9 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 424 | 9.6 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 429 | 8.4 | 51 | J | 10.8 | -5 | 330 | 9.0 | -5.2 | 0.9 | 3 | J |
| 19 |  |  |  |  | 10.6 | -11 | 325 | 7.8 | -5.8 | -0.1 | 4 | J |
| 20 | 427 | 16.4 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 427 | 16.4 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 429 | 13.4 | 74 | J | 9.6 | 34 | 332 | 5.9 | -2.1 | 5.0 | 5 | J |
| 23 | 429 | 16.9 | 61 | J | 10.3 | -25 | 305 | 4.6 | -7.2 | -2.3 | 5 | J |
| 24 | 433 | 13.4 | 72 | J | 11.0 | -62 | 302 | 2.7 | -6.2 | -8.4 | 2 | J |

SEP. 13, 1982 256

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 462 | 12.1 | 65 | J | 12.7 | -66 | 299 | 2.3 | -6.6 | -9.6 | 4 | J |
| 2 | 428 | 11.8 | 0 | C | 12.9 | -48 | 302 | 4.5 | -9.5 | -7.3 | 2 | J |
| 3 | 420 | 12.8 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 422 | 12.9 | 0 | C |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 424 | 11.7 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 424 | 11.7 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 427 | 11.6 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 420 | 11.1 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 416 | 11.3 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 443 | 6.8 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 481 | 7.9 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 445 | 7.8 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 445 | 7.8 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 459 | 7.7 | 0 | C | 7.9 | -47 | 324 | 3.8 | -4.8 | -3.0 | 4 | J |
| 16 | 456 | 7.9 | 0 | C | 8.0 | 16 | 283 | 1.3 | -4.4 | 4.1 | 5 | J |
| 17 | 446 | 7.6 | 0 | C | 8.1 | 9 | 313 | 5.0 | -4.4 | 3.2 | 3 | J |
| 18 | 456 | 7.6 | 0 | C |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 405 | 6.9 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 405 | 6.9 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 407 | 7.4 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 408 | 8.5 | 0 | C |  |  |  |  |  |  |  |  |

SEP. 14, 1982 257

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 6.8 | 85 | J | 7.3 | 13 | 312 | 3.9 | -3.9 | 2.3 | 4 | J |
| 2 | 412 | 7.7 | 75 | J | 7.8 | 12 | 305 | 3.9 | -5.0 | 2.8 | 3 | J |
| 3 | 396 | 8.2 | 60 | J | 8.2 | 0 | 309 | 4.9 | -5.8 | 1.8 | 2 | J |
| 4 | 405 | 8.1 | 55 | J | 8.0 | -35 | 310 | 2.1 | -3.1 | -1.3 | 7 | J |
| 5 | 443 | 9.9 | 47 | J | 8.8 | -63 | 263 | -0.4 | -6.1 | -5.2 | 4 | J |
| 6 | 415 | 10.3 | 0 | C | 8.8 | 21 | 295 | 3.3 | -5.1 | 5.8 | 3 | J |
| 7 | 440 | 7.6 | 60 | J | 8.7 | 24 | 284 | 1.8 | -4.8 | 6.5 | 3 | J |
| 8 | 418 | 9.7 | 71 | J | 9.3 | 2 | 283 | 1.8 | -6.4 | 4.2 | 5 | J |
| 9 | 440 | 11.6 | 56 | J | 9.6 | -15 | 267 | -0.3 | -6.0 | 1.9 | 7 | J |
| 10 | 421 | 7.1 | 42 | J | 9.5 | 24 | 309 | 5.3 | -3.3 | 6.8 | 2 | J |
| 11 | 412 | 9.3 | 0 | C | 9.1 | 29 | 294 | 3.1 | -3.3 | 7.4 | 3 | J |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 400 | 10.4 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 420 | 8.8 | 177 | J | 7.3 | -39 | 293 | 2.2 | -6.7 | -1.1 | 2 | J |
| 15 | 401 | 6.7 | 69 | J | 7.5 | 6 | 337 | 5.4 | -1.7 | 1.7 | 5 | J |
| 16 | 407 | 8.0 | 78 | J | 8.1 | 25 | 349 | 7.0 | 0.3 | 3.6 | 2 | J |
| 17 | 411 | 7.4 | 62 | J | 7.7 | 14 | 318 | 4.6 | -3.2 | 3.1 | 4 | J |
| 18 | 476 | 18.2 | 67 | J | 7.6 | -68 | 236 | -1.9 | -2.6 | -4.5 | 5 | J |
| 19 | 462 | 14.3 | 82 | J | 7.1 | -76 | 248 | -0.6 | -3.1 | -5.3 | 3 | J |
| 20 | 409 | 9.8 | 97 | J | 6.1 | -43 | 338 | 2.4 | -1.6 | -2.1 | 5 | J |
| 21 | 412 | 13.7 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 413 | 12.7 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 403 | 11.6 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 393 | 10.7 | 0 | C |  |  |  |  |  |  |  |  |

SEP. 15, 1982 258

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 10.4 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 377 | 11.8 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 377 | 11.8 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 368 | 13.1 | 0 | C |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 372 | 15.0 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 372 | 15.0 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 362 | 15.8 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 363 | 16.4 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 372 | 17.4 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 374 | 17.3 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 357 | 17.6 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 385 | 17.5 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 385 | 17.5 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 394 | 16.7 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 411 | 15.0 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 407 | 13.6 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 424 | 14.3 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 434 | 16.1 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 418 | 16.7 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 433 | 16.7 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 430 | 17.1 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 428 | 17.2 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 423 | 17.4 | 0 | C |  |  |  |  |  |  |  |  |

SEP. 16, 1982 259

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 422 | 17.7 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 416 | 17.6 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 411 | 17.6 | 0 | C |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 399 | 16.7 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 399 | 16.7 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 408 | 17.9 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 415 | 19.8 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 423 | 18.9 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 423 | 17.9 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 431 | 17.8 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 415 | 17.6 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 407 | 18.4 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 407 | 18.4 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 415 | 16.4 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 414 | 15.3 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 411 | 17.7 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 411 | 17.7 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 434 | 17.5 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 405 | 17.9 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 399 | 16.4 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 411 | 16.1 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 398 | 15.8 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 395 | 15.2 | 0 | C |  |  |  |  |  |  |  |  |

SEP. 17, 1982 260

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 413 | 14.0 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 430 | 13.5 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 424 | 13.1 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 412 | 13.1 | 0 | C |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 403 | 12.7 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 403 | 12.7 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 406 | 12.8 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 423 | 12.5 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 441 | 11.9 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 415 | 12.2 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 409 | 11.0 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 454 | 7.5 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 467 | 8.2 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 458 | 8.5 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 455 | 7.6 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 444 | 7.6 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 472 | 6.7 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 453 | 6.9 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 408 | 10.0 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 408 | 10.0 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 431 | 10.4 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 421 | 12.2 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 397 | 13.8 | 0 | C |  |  |  |  |  |  |  |  |

SEP. 18, 1982 261

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 14.0 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 400 | 15.5 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 394 | 15.8 | 0 | C |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 394 | 14.8 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 394 | 14.8 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 403 | 14.2 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 415 | 15.2 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 415 | 15.3 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 420 | 15.8 | 0 | C |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 403 | 17.2 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 403 | 17.2 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 420 | 19.0 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 433 | 20.1 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 430 | 21.3 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 426 | 21.1 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 454 | 20.6 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 451 | 21.9 | 0 | C |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 305 | 19.5 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 305 | 19.5 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 458 | 18.0 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 476 | 16.8 | 0 | C |  |  |  |  |  |  |  |  |

SEP. 19, 1982 262

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 525 | 16.4 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 525 | 15.7 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 527 | 16.6 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 528 | 17.4 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 543 | 16.7 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 543 | 16.7 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 542 | 16.1 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 549 | 15.0 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 559 | 14.8 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 562 | 14.7 | 0 | C |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 537 | 15.2 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 537 | 15.2 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 533 | 14.6 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 539 | 15.4 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 556 | 14.2 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 568 | 14.8 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 557 | 13.4 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 573 | 12.9 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 623 | 12.9 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 619 | 11.8 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 576 | 9.1 | 0 | C |  |  |  |  |  |  |  |  |

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09/20/82 – 09/27/82

SEP. 20, 1982 263

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 579 | 7.8 | 0 | C | | | | | | | | |
| 2 | 583 | 8.1 | 0 | C | | | | | | | | |
| 3 | 583 | 8.3 | 0 | C | | | | | | | | |
| 4 | 559 | 7.0 | 0 | C | | | | | | | | |
| 5 | 559 | 7.0 | 0 | C | | | | | | | | |
| 6 | 620 | 8.1 | 0 | C | | | | | | | | |
| 7 | 634 | 8.3 | 0 | C | 8.5 | -52 | 304 | 2.8 | -6.6 | -3.5 | 3 | J |
| 8 | 683 | 8.9 | 0 | C | 7.8 | -53 | 304 | 2.2 | -5.4 | -2.7 | 5 | J |
| 9 | 655 | 8.5 | 0 | C | 7.7 | 33 | 341 | 5.9 | 0.5 | 4.5 | 2 | J |
| 10 | 671 | 12.5 | 138 | J | 8.2 | 7 | 335 | 5.7 | -1.7 | 2.1 | 5 | J |
| 11 | 696 | 12.4 | 152 | J | 8.5 | 2 | 352 | 7.4 | -0.7 | 0.8 | 4 | J |
| 12 | 731 | 14.4 | 146 | J | 8.9 | 18 | 34 | 5.8 | 4.5 | -0.3 | 5 | J |
| 13 | 672 | 13.4 | 82 | J | 9.3 | 24 | 4 | 7.6 | 2.3 | 2.5 | 4 | J |
| 14 | 660 | 7.2 | 0 | C | | | | | | | | |
| 15 | 665 | 15.8 | 90 | J | 8.7 | -12 | 2 | 7.6 | -0.6 | -1.5 | 4 | J |
| 16 | 680 | 11.1 | 214 | J | 9.0 | -2 | 325 | 6.6 | -4.3 | 1.8 | 4 | J |
| 17 | 726 | 8.6 | 171 | J | 9.0 | 26 | 307 | 4.3 | -3.8 | 5.4 | 4 | J |
| 18 | 709 | 12.7 | 115 | J | 8.4 | 16 | 328 | 4.8 | -2.2 | 2.6 | 6 | J |
| 19 | 745 | 11.6 | 121 | J | 8.5 | 66 | 322 | 2.4 | 0.3 | 7.1 | 4 | J |
| 20 | 720 | 14.2 | 186 | J | 8.8 | 42 | 348 | 5.1 | 0.2 | 4.8 | 5 | J |
| 21 | 688 | 13.0 | 120 | J | 8.2 | 15 | 330 | 5.9 | -2.9 | 2.6 | 4 | J |
| 22 | 742 | 18.9 | 160 | J | 7.5 | 30 | 342 | 5.1 | -1.0 | 3.4 | 4 | J |
| 23 | 664 | 7.7 | 0 | C | 7.0 | -26 | 332 | 4.4 | -2.8 | -1.9 | 4 | J |
| 24 | 701 | 13.5 | 127 | J | 7.0 | -9 | 318 | 3.7 | -3.4 | -0.1 | 5 | J |

SEP. 22, 1982 265

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 808 | 10.9 | 119 | J | 21.9 | -10 | 91 | -0.4 | 19.4 | -8.4 | 5 | J |
| 2 | 793 | 21.8 | 75 | J | 21.6 | -7 | 114 | -8.6 | 17.9 | -7.5 | 4 | J |
| 3 | 758 | 26.9 | 70 | J | 21.8 | -19 | 107 | -6.0 | 16.6 | -12.7 | 2 | J |
| 4 | 717 | 12.1 | 0 | C | 20.1 | -30 | 104 | -4.2 | 12.3 | -15.2 | 2 | J |
| 5 | 717 | 12.1 | 0 | C | 17.8 | -37 | 101 | -2.6 | 8.3 | -14.9 | 4 | J |
| 6 | 675 | 8.0 | 0 | C | | | | | | | | |
| 7 | 709 | 13.5 | 0 | C | | | | | | | | |
| 8 | 674 | 13.8 | 0 | C | | | | | | | | |
| 9 | 704 | 10.8 | 0 | C | | | | | | | | |
| 10 | 696 | 7.4 | 0 | C | | | | | | | | |
| 11 | 754 | 38.3 | 104 | J | 13.0 | 25 | 90 | 0.0 | 11.7 | -2.0 | 4 | J |
| 12 | 812 | 25.2 | 212 | J | 7.5 | -18 | 105 | -1.2 | 2.8 | -3.7 | 6 | J |
| 13 | 794 | 24.7 | 166 | J | 3.8 | -55 | 200 | -1.3 | -1.5 | -1.4 | 3 | J |
| 14 | 840 | 22.3 | 143 | J | 3.4 | 18 | 327 | 2.0 | -0.7 | 1.3 | 2 | J |
| 15 | 811 | 32.7 | 98 | J | 4.0 | 6 | 345 | 2.5 | -0.5 | 0.6 | 3 | J |
| 16 | 776 | 16.2 | 0 | C | | | | | | | | |
| 17 | 703 | 8.4 | 0 | C | | | | | | | | |
| 18 | 783 | 7.7 | 114 | J | 3.8 | -6 | 20 | 3.6 | 1.1 | -0.8 | 0 | J |
| 19 | 774 | 9.3 | 63 | J | 3.7 | -17 | 26 | 3.1 | 1.1 | -1.5 | 1 | J |
| 20 | 812 | 5.9 | 65 | J | 3.9 | -14 | 25 | 3.4 | 1.3 | -1.3 | 0 | J |
| 21 | 610 | 6.2 | 0 | C | 3.4 | -45 | 146 | -1.1 | 0.4 | -1.5 | 3 | J |
| 22 | 598 | 6.1 | 0 | C | 3.9 | -10 | 171 | -3.6 | 0.4 | -0.7 | 2 | J |
| 23 | 707 | 3.5 | 125 | J | 3.9 | -6 | 197 | -3.7 | -1.2 | -0.2 | 0 | J |
| 24 | 724 | 3.9 | 134 | J | 2.9 | -11 | 211 | -2.3 | -1.4 | -0.2 | 1 | J |

SEP. 24, 1982 267

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 462 | 11.1 | 26 | J | 8.9 | -18 | 312 | 5.4 | -6.5 | -1.2 | 3 | J |
| 2 | 465 | 12.1 | 33 | J | 9.1 | 6 | 298 | 4.1 | -7.2 | 2.9 | 2 | J |
| 3 | 458 | 9.2 | 30 | J | 9.4 | -3 | 299 | 4.3 | -7.6 | 1.9 | 3 | J |
| 4 | 538 | 21.7 | 0 | C | | | | | | | | |
| 5 | 607 | 32.6 | 0 | C | | | | | | | | |
| 6 | 574 | 29.8 | 0 | C | | | | | | | | |
| 7 | 495 | 19.8 | 0 | C | | | | | | | | |
| 8 | 501 | 24.3 | 41 | J | 9.3 | -12 | 276 | 0.8 | -7.7 | 2.7 | 4 | J |
| 9 | 490 | 25.9 | 31 | J | 8.9 | 25 | 272 | 0.3 | -4.4 | 7.1 | 3 | J |
| 10 | 470 | 16.9 | 0 | C | 8.0 | 44 | 284 | 1.4 | -1.5 | 7.7 | 1 | J |
| 11 | 482 | 20.8 | 0 | C | | | | | | | | |
| 12 | 480 | 32.1 | 59 | J | 3.7 | -50 | 181 | -2.3 | -1.6 | -2.2 | 1 | J |
| 13 | 483 | 40.6 | 58 | J | 4.3 | -35 | 179 | -2.0 | -0.8 | -1.2 | 4 | J |
| 14 | 489 | 29.0 | 39 | J | 7.1 | -56 | 248 | -1.4 | -5.7 | -2.8 | 3 | J |
| 15 | 445 | 14.0 | 0 | C | 7.3 | -31 | 254 | -1.2 | -5.0 | -0.2 | 5 | J |
| 16 | 437 | 13.8 | 0 | C | 7.2 | 3 | 312 | 3.6 | -3.5 | 2.0 | 5 | J |
| 17 | 410 | 13.6 | 0 | C | 7.4 | 0 | 312 | 4.1 | -4.2 | 1.8 | 4 | J |
| 18 | 418 | 9.5 | 30 | J | 7.2 | 36 | 353 | 5.7 | 0.8 | 4.2 | 1 | J |
| 19 | 428 | 8.7 | 32 | J | 6.5 | 20 | 346 | 5.6 | -0.7 | 2.4 | 2 | J |
| 20 | 407 | 7.4 | 32 | J | 6.7 | 4 | 335 | 6.0 | -2.6 | 1.2 | 1 | J |
| 21 | 461 | 18.1 | 52 | J | 5.5 | -17 | 281 | 1.0 | -5.3 | -0.3 | 2 | J |
| 22 | 433 | 12.3 | 75 | J | 6.8 | 2 | 294 | 2.7 | -5.9 | 1.5 | 1 | J |
| 23 | 424 | 8.1 | 37 | J | 7.2 | -8 | 324 | 5.6 | -4.2 | -0.1 | 2 | J |
| 24 | 399 | 11.8 | 0 | C | 7.4 | 6 | 320 | 5.6 | -4.5 | 1.8 | 0 | J |

SEP. 26, 1982 269

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 507 | 17.0 | 0 | C | | | | | | | | |
| 2 | 502 | 44.9 | 67 | J | 21.1 | 39 | 122 | -8.3 | 16.1 | 8.7 | 6 | J |
| 3 | 521 | 23.5 | 0 | C | 20.8 | 32 | 112 | -6.6 | 18.8 | 5.5 | 2 | J |
| 4 | 500 | 21.9 | 0 | C | | | | | | | | |
| 5 | 475 | 21.9 | 0 | C | 20.0 | 40 | 117 | -6.7 | 17.1 | 6.2 | 5 | J |
| 6 | 454 | 22.3 | 0 | C | 19.8 | 29 | 117 | -7.7 | 17.6 | 1.7 | 4 | J |
| 7 | 456 | 24.8 | 98 | J | 20.2 | 25 | 103 | -4.0 | 19.3 | -1.2 | 4 | J |
| 8 | 471 | 32.8 | 52 | J | 19.4 | 12 | 99 | -2.9 | 17.7 | -6.2 | 4 | J |
| 9 | 452 | 24.6 | 57 | J | 18.4 | 3 | 101 | -3.4 | 15.0 | -8.8 | 5 | J |
| 10 | 463 | 28.1 | 39 | J | 19.1 | 15 | 108 | -5.4 | 16.3 | -5.5 | 6 | J |
| 11 | 522 | 39.0 | 56 | J | 20.1 | 0 | 95 | -1.7 | 15.5 | -10.8 | 7 | J |
| 12 | 542 | 37.0 | 61 | J | 23.5 | 0 | 88 | 0.8 | 19.4 | -13.3 | 1 | J |
| 13 | 518 | 16.2 | 0 | C | | | | | | | | |
| 14 | 507 | 30.8 | 82 | J | 23.2 | -36 | 80 | 3.1 | 8.3 | -20.5 | 6 | J |
| 15 | 524 | 24.3 | 0 | C | 22.0 | -36 | 79 | 3.3 | 8.7 | -19.4 | 4 | J |
| 16 | 521 | 21.5 | 0 | C | 21.3 | -42 | 74 | 4.4 | 7.3 | -19.5 | 1 | J |
| 17 | 531 | 39.8 | 69 | J | 20.9 | -59 | 324 | 8.5 | -12.6 | -13.6 | 5 | J |
| 18 | 468 | 16.4 | 0 | C | 19.7 | -63 | 342 | 8.5 | -8.7 | -15.5 | 1 | J |
| 19 | 521 | 43.2 | 98 | J | 13.9 | -32 | 64 | 4.3 | 6.6 | -8.5 | 8 | J |
| 20 | 512 | 43.0 | 76 | J | 14.1 | -40 | 37 | 7.2 | 3.2 | -8.7 | 8 | J |
| 21 | 495 | 22.4 | 83 | J | 13.7 | -8 | 30 | 4.5 | 2.3 | -1.3 | 13 | J |
| 22 | 501 | 39.4 | 119 | J | 10.0 | 14 | 61 | 2.9 | 5.5 | 0.3 | 8 | J |
| 23 | 506 | 37.6 | 65 | J | 11.9 | -60 | 101 | -1.1 | 3.4 | -10.7 | 4 | J |
| 24 | 483 | 24.9 | 59 | J | 13.3 | -37 | 128 | -5.9 | 5.9 | -8.7 | 6 | J |

SEP. 21, 1982 264

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 712 | 3.6 | 443 | J | 7.1 | -2 | 296 | 2.5 | -4.9 | 1.0 | 4 | J |
| 2 | 756 | 10.3 | 505 | J | 6.3 | 6 | 32 | 3.6 | 2.3 | -0.2 | 4 | J |
| 3 | | | | | 6.6 | 14 | 20 | 5.9 | 2.5 | 0.8 | 0 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 1021 | 17.1 | 0 | C | | | | | | | | |
| 8 | 1021 | 17.1 | 0 | C | | | | | | | | |
| 9 | 962 | 16.8 | 0 | C | | | | | | | | |
| 10 | 981 | 20.7 | 0 | C | 8.2 | -2 | 32 | 6.6 | 3.3 | -2.6 | 3 | J |
| 11 | 951 | 18.3 | 0 | C | 14.8 | 57 | 219 | -4.1 | 1.9 | 8.5 | 11 | J |
| 12 | 961 | 15.8 | 0 | C | 17.4 | 2 | 207 | -15.0 | -5.9 | 4.8 | 5 | J |
| 13 | 891 | 23.7 | 136 | J | 15.5 | -1 | 205 | -13.7 | -5.5 | 3.3 | 4 | J |
| 14 | 866 | 26.0 | 254 | J | 16.4 | 14 | 219 | -12.1 | -6.3 | 8.4 | 3 | J |
| 15 | 859 | 36.9 | 116 | J | 20.2 | 81 | 48 | 1.5 | 8.2 | 11.3 | 15 | J |
| 16 | 865 | 27.3 | 117 | J | 22.9 | 78 | 78 | 1.0 | 14.1 | 17.8 | 2 | J |
| 17 | 828 | 12.4 | 0 | C | | | | | | | | |
| 18 | 796 | 14.5 | 92 | J | 22.0 | 27 | 63 | 8.7 | 19.5 | 3.2 | 4 | J |
| 19 | 806 | 5.6 | 103 | J | 22.1 | 28 | 70 | 6.6 | 20.3 | 4.2 | 4 | J |
| 20 | 787 | 17.9 | 71 | J | 21.8 | 13 | 77 | 4.7 | 21.1 | -0.7 | 2 | J |
| 21 | 756 | 28.1 | 67 | J | 21.1 | -2 | 76 | 5.1 | 19.5 | -5.5 | 3 | J |
| 22 | 753 | 27.3 | 94 | J | 18.5 | -5 | 79 | 3.4 | 16.9 | -5.3 | 4 | J |
| 23 | 777 | 21.4 | 0 | C | | | | | | | | |
| 24 | 747 | 12.5 | 0 | C | 21.8 | -14 | 123 | -10.1 | 14.2 | -7.8 | 4 | J |

SEP. 23, 1982 266

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 696 | 3.9 | 135 | J | 2.3 | -52 | 347 | 0.9 | -0.5 | -1.1 | 2 | J |
| 2 | 640 | 2.0 | 94 | J | 3.0 | -55 | 75 | 0.4 | 0.8 | -2.3 | 2 | J |
| 3 | 614 | 11.0 | 68 | J | 3.2 | -53 | 49 | 1.0 | 0.5 | -2.2 | 2 | J |
| 4 | 591 | 20.4 | 45 | J | 3.9 | -66 | 26 | 1.1 | -0.5 | -2.8 | 3 | J |
| 5 | 606 | 11.3 | 56 | J | 6.5 | -85 | 1 | 0.5 | -2.3 | -5.3 | 3 | J |
| 6 | 597 | 13.0 | 59 | J | 5.7 | -54 | 298 | 1.6 | -4.7 | -2.8 | 1 | J |
| 7 | 606 | 16.2 | 50 | J | 5.2 | -46 | 321 | 2.8 | -3.8 | -2.2 | 1 | J |
| 8 | 571 | 17.5 | 42 | J | 5.4 | -39 | 329 | 3.5 | -3.5 | -1.7 | 2 | J |
| 9 | 555 | 23.8 | 35 | J | 5.3 | -39 | 328 | 3.4 | -3.5 | -1.5 | 1 | J |
| 10 | 546 | 15.3 | 54 | J | 5.9 | -40 | 330 | 3.8 | -3.9 | -1.8 | 1 | J |
| 11 | | | | | 6.4 | -37 | 312 | 3.3 | -5.1 | -0.9 | 2 | J |
| 12 | 549 | 19.7 | 58 | J | 7.0 | -12 | 207 | -5.0 | -2.8 | 0.5 | 4 | J |
| 13 | 685 | 16.7 | 56 | J | 6.1 | -1 | 193 | -5.6 | -1.1 | 0.6 | 2 | J |
| 14 | 536 | 30.8 | 32 | J | 6.1 | -28 | 283 | 1.1 | -5.4 | 0.3 | 3 | J |
| 15 | | | | | 6.7 | -30 | 287 | 1.7 | -6.5 | -0.2 | 0 | J |
| 16 | 463 | 7.0 | 0 | C | | | | | | | | |
| 17 | 463 | 7.0 | 0 | C | | | | | | | | |
| 18 | 488 | 29.0 | 31 | J | 6.9 | -31 | 331 | 4.8 | -3.6 | -2.2 | 2 | J |
| 19 | 450 | 7.4 | 24 | J | 7.6 | -13 | 358 | 7.0 | -0.7 | -1.5 | 2 | J |
| 20 | 477 | 16.0 | 23 | J | 9.1 | -13 | 347 | 8.5 | -2.4 | -1.4 | 2 | J |
| 21 | 424 | 9.1 | 0 | C | | | | | | | | |
| 22 | 424 | 9.1 | 0 | C | | | | | | | | |
| 23 | 440 | 9.2 | 0 | C | | | | | | | | |
| 24 | 477 | 10.7 | 25 | J | 9.1 | -20 | 308 | 5.0 | -6.9 | -1.5 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 426 | 12.0 | 45 | J | 7.3 | 17 | 325 | 5.3 | -3.2 | 2.8 | 3 | J |
| 2 | 418 | 11.9 | 49 | J | 7.3 | 15 | 327 | 5.7 | -3.1 | 2.7 | 2 | J |
| 3 | 400 | 14.2 | 0 | C | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 445 | 7.6 | 43 | J | 6.3 | 36 | 338 | 4.5 | -0.1 | 4.0 | 2 | J |
| 7 | 420 | 9.5 | 34 | J | 5.5 | -20 | 329 | 2.6 | -1.9 | -0.2 | 4 | J |
| 8 | 407 | 12.1 | 68 | J | 5.4 | -25 | 350 | 4.6 | -1.8 | -1.4 | 2 | J |
| 9 | 378 | 10.1 | 87 | J | 5.4 | -11 | 3 | 5.2 | -0.3 | -1.0 | 1 | J |
| 10 | 380 | 10.8 | 51 | J | 4.6 | -12 | 0 | 4.3 | -0.5 | -0.8 | 1 | J |
| 11 | 433 | 18.8 | 55 | J | 3.7 | -25 | 350 | 3.2 | -1.3 | -0.9 | 1 | J |
| 12 | 402 | 19.3 | 0 | C | | | | | | | | |
| 13 | 421 | 25.7 | 0 | C | | | | | | | | |
| 14 | 398 | 22.6 | 0 | C | | | | | | | | |
| 15 | 384 | 19.5 | 0 | C | | | | | | | | |
| 16 | 402 | 17.6 | 41 | J | 4.9 | 29 | 313 | 2.8 | -1.7 | 3.4 | 2 | J |
| 17 | 422 | 23.3 | 44 | J | 7.9 | 4 | 303 | 4.0 | -5.4 | 2.9 | 3 | J |
| 18 | 435 | 31.3 | 0 | C | 8.4 | -85 | 333 | 0.6 | -2.9 | -7.0 | 4 | J |
| 19 | 445 | 45.7 | 26 | J | 10.1 | 3 | 286 | 2.7 | -8.7 | 3.3 | 3 | J |
| 20 | 390 | 16.3 | 0 | C | 13.7 | 44 | 282 | 2.0 | -6.8 | 11.7 | 0 | J |
| 21 | 453 | 25.6 | 49 | J | 18.5 | 47 | 282 | 2.6 | -8.7 | 15.9 | 5 | J |
| 22 | 471 | 28.5 | 0 | C | 23.9 | 78 | 216 | -3.9 | 2.1 | 22.8 | 6 | J |
| 23 | 523 | 56.3 | 59 | J | 22.8 | 76 | 186 | -5.3 | 3.9 | 21.1 | 6 | J |
| 24 | 514 | 51.8 | 30 | J | 23.7 | 52 | 117 | -6.6 | 16.6 | 15.3 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 496 | 24.9 | 64 | J | 11.6 | -8 | 124 | -6.0 | 8.3 | -3.5 | 4 | J |
| 2 | 500 | 19.9 | 54 | J | 12.0 | -19 | 111 | -4.0 | 9.0 | -6.4 | 2 | J |
| 3 | 517 | 13.2 | 0 | C | | | | | | | | |
| 4 | 495 | 20.4 | 72 | J | 9.8 | -5 | 134 | -5.7 | 5.3 | -2.7 | 5 | J |
| 5 | | | | | | | | | | | | |
| 6 | 453 | 8.5 | 0 | C | | | | | | | | |
| 7 | 453 | 8.5 | 0 | C | | | | | | | | |
| 8 | 474 | 8.0 | 0 | C | | | | | | | | |
| 9 | 505 | 8.0 | 0 | C | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 519 | 34.3 | 108 | J | | | | | | | | |
| 15 | 530 | 45.4 | 61 | J | 4.8 | 39 | 181 | -3.3 | 1.2 | 2.3 | 2 | J |
| 16 | 505 | 39.9 | 58 | J | 5.9 | -25 | 55 | 1.5 | 1.4 | -2.1 | 5 | J |
| 17 | 524 | 44.9 | 36 | J | 3.6 | -22 | 25 | 2.4 | 0.6 | -1.4 | 2 | J |
| 18 | 501 | 45.7 | 31 | J | 4.4 | -19 | 14 | 3.5 | 0.4 | -1.5 | 2 | J |
| 19 | 522 | 23.8 | 29 | J | 5.5 | -11 | 356 | 5.0 | -0.6 | -0.8 | 2 | J |
| 20 | 491 | 26.5 | 30 | J | 4.7 | 20 | 335 | 3.7 | -1.3 | 1.9 | 2 | J |
| 21 | 490 | 20.8 | 38 | J | 3.8 | 29 | 345 | 3.0 | -0.4 | 1.8 | 1 | J |
| 22 | 457 | 26.5 | 49 | J | 3.1 | -26 | 4 | 2.1 | -0.1 | -1.0 | 2 | J |
| 23 | 472 | 27.5 | 38 | J | 4.0 | 16 | 359 | 3.1 | 0.1 | 0.9 | 2 | J |
| 24 | 468 | 45.6 | 32 | J | 4.2 | -34 | 13 | 3.2 | 0.3 | -2.3 | 1 | J |

09/28/82 – 10/05/82

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HR    VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF       VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                 1000  SC MAGN LAT LON                   SC                     1000  SC MAGN LAT LON                   SC

                              SEP. 28, 1982              271                               SEP. 29, 1982              272

 1    482 15.6   0  C                                               409 19.1   0  C
 2    476 16.5   0  C
 3    469 16.7   0  C
 4    464 16.0   0  C
 5
 6                                                                  361 11.3   0  C
 7    403 11.8   0  C                                               361 11.3   0  C
 8    403 11.8   0  C                                               373 12.7   0  C
 9    395 11.8   0  C                                               362 16.4   0  C
10    379 11.8   0  C                                               374 16.1   0  C
11                                                                  379 15.4   0  C
12    411 18.5   0  C                                               368 13.4   0  C
13    411 18.5   0  C                                               369 12.6   0  C
14    416 17.2   0  C                                               359 12.3   0  C
15    404 16.4   0  C                                               334 12.5   0  C
16    397 15.6   0  C                                               325 12.6   0  C
17    379 14.4   0  C                                               338 12.6   0  C
18    369 15.3   0  C                                               341 12.2   0  C
19    344 17.6   0  C                                               330 11.6   0  C
20    411 20.7   0  C                                               327 11.2   0  C
21    411 20.7   0  C                                               334 10.7   0  C
22    405 20.5   0  C                                               341 10.6   0  C
23    431 31.1   0  C                                               334 11.0   0  C
24    420 25.7   0  C                                               335 12.1   0  C

                              SEP. 30, 1982              273                               OCT.  1, 1982              274

 1    324 11.0   0  C                                               352 13.1   0  C
 2    302 10.1   0  C                                               361 14.4   0  C
 3    313 11.0   0  C                                               361 14.4   0  C
 4    332 13.5   0  C
 5    332 13.5   0  C
 6    331 14.4   0  C                                               352 12.6   0  C
 7    328 14.7   0  C                                               352 12.6   0  C
 8    350 16.6   0  C                                               366 11.4   0  C
 9    350 16.6   0  C                                               367 10.5   0  C
10    365 17.8   0  C                                               370 10.1   0  C
11    386 20.7   0  C                                               379 10.2   0  C
12    402 21.4   0  C                                               380 15.1   0  C
13    391 19.6   0  C                                               380 15.1   0  C
14    359 21.9   0  C                                               370 19.2   0  C
15    379  7.7   0  C                                               375 21.7   0  C
16    395  6.0   0  C                                               370 22.8   0  C
17    386  6.8   0  C                                               384 23.2   0  C
18    388  7.9   0  C                                               399 18.0   0  C
19                                                                  400 15.5   0  C
20    366  5.6   0  C                                               404 12.4   0  C
21    366  5.6   0  C                                               402 12.2   0  C
22    360  7.1   0  C                                               405 12.2   0  C
23    356 10.7   0  C                                               408 10.3   0  C
24    350 12.7   0  C                                               436 11.5   0  C

                              OCT.  2, 1982              275                               OCT.  3, 1982              276

 1    430 10.0   0  C                                               393  6.0   0  C
 2    418  9.3   0  C                                               384  6.1   0  C
 3    416  8.5   0  C                                               395  5.9   0  C    6.7  13 123  -3.1    4.9  -0.2  3  J
 4    416  7.8   0  C                                                                  7.0  13 115  -2.7    5.9  -0.6  3  J
 5    415  7.6   0  C                                                                  6.9  -1 132  -4.1    4.2  -1.9  3  J
 6    419  7.7   0  C                                               377  5.9  31  J    6.8  11 128  -3.8    4.9  -1.1  2  J
 7    418  7.4   0  C                                               397  5.2  30  J    7.4   1 112  -2.5    5.5  -2.9  3  J
 8    412  6.9   0  C                                               360  7.2   0  C    8.0   8 111  -2.7    6.5  -2.7  3  J
 9    409  6.4   0  C                                               411  4.3  33  J
10    410  6.1   0  C                                               371  5.5  28  J    7.2   8 116  -3.0    5.6  -2.7  2  J
11                                                                  398  6.6  31  J    7.1   8 100  -1.2    6.2  -3.1  1  J
12    426  5.5   0  C                                               393  6.8  31  J    7.4  13 103  -1.6    6.7  -2.5  1  J
13    426  5.5   0  C                                               369  6.3  29  J    7.6  -3 113  -2.8    5.3  -3.9  2  J
14    435  5.5   0  C                                               377  6.2  46  J    7.5 -12 126  -4.1    4.1  -4.2  2  J
15    414  6.6   0  C                                               360  8.4  69  J    6.7 -11 134  -3.1    2.4  -2.3  5  J
16    395  6.7   0  C                                               419  7.8  34  J    7.1 -10 105  -1.8    5.5  -4.0  1  J
17    407  5.7   0  C                                               347 10.9   0  C
18    413  5.6   0  C                                               336 10.9   0  C
19    397  5.5   0  C                                               333 11.9   0  C
20    405  5.6   0  C                                               332 12.1   0  C
21    393  6.3   0  C                                               340 12.4   0  C
22    417  6.2   0  C                                               336 12.0   0  C
23    391  6.0   0  C                                               325 12.1   0  C
24    398  6.1   0  C                                               335  7.1  23  J    6.7  -9 159  -6.1    2.1  -1.5  1  J

                              OCT.  4, 1982              277                               OCT.  5, 1982              278

 1    332 10.0   0  C                                               340  7.7  37  J    7.5  12 133  -4.0    4.5   0.2  4  J
 2    325  9.0   0  C                                               342  8.3  32  J    7.9  -6 119  -3.2    5.5  -2.2  4  J
 3    338  6.8  18  J    6.4   7 154  -4.9    2.5  -0.1  3  J
 4    331  7.1   0  C    6.4  15 129  -3.8    4.9  -0.1  2  J
 5    331  7.1   0  C    5.8 -27 120  -2.0    2.4  -3.2  4  J
 6    363  5.6  29  J    6.8 -39 117  -2.3    2.3  -5.7  2  J   331  9.9  24  J    8.8 -17 124  -4.6    5.0  -5.3  2  J
 7    345  5.6  18  J    6.8 -12 116  -2.7    4.3  -3.9  2  J   345  9.3  21  J    9.2  -8 127  -5.2    5.5  -4.4  2  J
 8    347  5.4  25  J    6.8  -7 133  -4.3    3.6  -3.1  2  J   325  9.3  26  J    9.2  37 141  -5.4    6.5   2.2  3  J
 9    369  4.7  17  J    6.8 -60 130  -1.9   -0.9  -5.4  3  J   322 10.0  28  J    9.2  26 153  -6.9    5.0   1.2  3  J
10    364  5.1  20  J    7.8 -52 118  -2.2    0.1  -7.4  1  J   344 11.2  20  J    9.6  45 120  -3.2    8.2   2.2  3  J
11    353  5.1  22  J    8.1 -48 120  -2.7    0.5  -7.5  1  J   352 10.3  22  J    9.8  59 118  -2.3    8.3   4.3  2  J
12    336  6.5  16  J    7.9 -30 133  -4.5    1.9  -5.9  2  J   341 11.2  16  J    9.7  62 123  -2.4    7.7   4.8  2  J
13    328  6.5  25  J    7.6 -24 153  -5.9    0.9  -4.1  2  J   339 10.3  25  J    9.1  62 139  -3.0    6.3   4.9  3  J
14    343  5.9  16  J    8.2  -7 113  -3.0    5.6  -4.5  3  J   336 15.8  39  J    7.5  37 174  -5.5    2.6   3.3  3  J
15    359  6.8  20  J    8.0  23 114  -2.7    6.8  -0.4  3  J   334 16.0  41  J    8.4  41 169  -5.9    3.5   4.1  3  J
16    324  7.7   0  C                                               327 14.5  33  J    9.5  28 151  -7.1    5.4   2.2  2  J
17    325  7.8   0  C                                               305 19.4   0  C    9.6   8 136  -6.8    6.5  -1.3  1  J
18    331  8.9   0  C                                               309 18.6   0  C
19    343  6.3  35  J    6.6 -10 128  -3.8    4.3  -2.5  2  J   317 18.7   0  C
20    325  6.6  47  J    6.8  -2 144  -5.3    3.7  -1.2  2  J   331 10.7  16  J   11.4  55 197  -6.1    0.5   9.3  2  J
21    323  7.5  48  J    7.3  14 149  -5.9    3.8   0.9  2  J   333 13.9  24  J   10.6  18 135  -6.1    6.6   1.4  5  J
22    303  9.6   0  C                                               316 20.0   0  C
23    331  7.2  39  J    7.0  17 163  -5.6    2.0   1.4  4  J   314 20.2   0  C
24    339  7.5  44  J    7.6 -11 115  -3.1    6.2  -2.8  1  J   316 19.7   0  C
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10/06/82 – 10/13/82

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  | OCT. 6, 1982 |  |  |  |  |  | 279 |  |  |  |  |  | OCT. 7, 1982 |  |  |  |  |  | 280 |
| 1 | 326 | 16.5 | 26 | J | 11.2 | -5 | 98 | -1.5 | 10.0 | -3.2 | 3 | J | 378 | 10.1 | 61 | J | 11.9 | -72 | 334 | 3.2 | -4.0 | -10.5 | 2 | J |
| 2 | 317 | 15.4 | 30 | J | 11.7 | -5 | 127 | -6.7 | 8.4 | -3.2 | 3 | J | 422 | 8.4 | 134 | J | 11.9 | -85 | 109 | -0.3 | -1.7 | -9.9 | 6 | J |
| 3 | 314 | 15.7 | 26 | J | 11.9 | -14 | 133 | -7.1 | 6.6 | -4.8 | 5 | J | 395 | 7.0 | 80 | J | 10.7 | -82 | 122 | -0.8 | -1.9 | -10.2 | 3 | J |
| 4 | 325 | 16.8 | 40 | J | 11.6 | -26 | 133 | -6.6 | 5.0 | -6.8 | 5 | J | 406 | 5.5 | 75 | J | 10.9 | -47 | 125 | -4.2 | 3.0 | -9.5 | 1 | J |
| 5 | 340 | 13.7 | 40 | J | 11.0 | -28 | 132 | -5.6 | 4.0 | -6.5 | 5 | J | 427 | 4.7 | 89 | J | 10.5 | -57 | 136 | -3.9 | 0.2 | -9.2 | 3 | J |
| 6 | 337 | 13.8 | 37 | J | 10.0 | -9 | 111 | -3.3 | 7.1 | -5.1 | 3 | J | 443 | 7.0 | 202 | J | 10.2 | -55 | 139 | -4.2 | -0.2 | -8.7 | 3 | J |
| 7 | 309 | 21.2 | 0 | C | 9.8 | -36 | 145 | -6.0 | 1.1 | -6.6 | 4 | J | 421 | 5.5 | 148 | J | 10.0 | -39 | 130 | -4.7 | 2.0 | -7.9 | 3 | J |
| 8 | 309 | 21.2 | 0 | C | 9.3 | -15 | 168 | -7.5 | 0.3 | -2.6 | 5 | J | 401 | 7.9 | 0 | C | 10.6 | -54 | 122 | -3.3 | 0.1 | -10.1 | 1 | J |
| 9 | 310 | 14.3 | 36 | J | 9.8 | -15 | 211 | -7.7 | -5.2 | 0.5 | 3 | J | 381 | 6.5 | 91 | J | 10.5 | -32 | 150 | -7.3 | 0.7 | -6.8 | 3 | J |
| 10 | 312 | 18.4 | 99 | J | 9.8 | -49 | 188 | -5.7 | -4.3 | -5.0 | 4 | J | 411 | 5.7 | 97 | J | 9.9 | -36 | 133 | -5.0 | 1.5 | -7.4 | 4 | J |
| 11 | 307 | 12.9 | 41 | J | 8.8 | -29 | 182 | -6.5 | -2.2 | -2.8 | 5 | J | 432 | 7.8 | 114 | J | 9.9 | -2 | 137 | -6.3 | 4.7 | -3.6 | 5 | J |
| 12 | 305 | 12.2 | 48 | J | 9.1 | -30 | 148 | -6.0 | 0.8 | -5.5 | 4 | J | 413 | 9.9 | 0 | C | 9.4 | 11 | 132 | -6.1 | 6.6 | -2.3 | 1 | J |
| 13 | 328 | 15.0 | 67 | J | 8.9 | -54 | 216 | -3.4 | -5.2 | -3.5 | 5 | J | 415 | 9.8 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 347 | 15.2 | 68 | J | 11.0 | -64 | 162 | -4.3 | -3.6 | -8.7 | 3 | J | 406 | 9.6 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 330 | 14.6 | 63 | J | 12.1 | -20 | 122 | -5.6 | 6.1 | -7.7 | 4 | J | 417 | 8.2 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 334 | 14.2 | 60 | J | 11.0 | 41 | 130 | -4.8 | 7.9 | 3.3 | 5 | J | 441 | 8.4 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 326 | 14.5 | 61 | J | 9.9 | 48 | 130 | -3.7 | 6.5 | 4.1 | 5 | J | 405 | 8.2 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 310 | 19.6 | 0 | C | 10.2 | -10 | 106 | -2.7 | 8.3 | -4.8 | 2 | J | 422 | 8.1 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 337 | 15.2 | 29 | J | 11.3 | -64 | 77 | 1.1 | 1.6 | -10.9 | 2 | J | 415 | 7.7 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 316 | 20.1 | 0 | C |  |  |  |  |  |  |  |  | 397 | 7.4 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 320 | 18.7 | 0 | C |  |  |  |  |  |  |  |  | 338 | 7.5 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 328 | 18.2 | 0 | C |  |  |  |  |  |  |  |  | 333 | 7.4 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 314 | 17.3 | 0 | C |  |  |  |  |  |  |  |  | 376 | 7.3 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 319 | 15.7 | 0 | C |  |  |  |  |  |  |  |  | 436 | 6.1 | 107 | J | 8.8 | -35 | 106 | -1.7 | 5.0 | -5.5 | 4 | J |
|  |  |  |  |  |  | OCT. 8, 1982 |  |  |  |  |  | 281 |  |  |  |  |  | OCT. 9, 1982 |  |  |  |  |  | 282 |
| 1 | 405 | 7.8 | 0 | C |  |  |  |  |  |  |  |  | 378 | 15.3 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 395 | 8.5 | 0 | C |  |  |  |  |  |  |  |  | 378 | 15.5 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 389 | 8.2 | 65 | J |  |  |  |  |  |  |  |  | 330 | 15.3 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 412 | 7.7 | 57 | J | 8.6 | -48 | 126 | -3.3 | 2.1 | -7.3 | 2 | J |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 402 | 10.1 | 0 | C | 8.2 | 7 | 137 | -5.4 | 5.0 | -1.1 | 3 | J | 343 | 17.5 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 392 | 10.6 | 0 | C | 8.1 | 20 | 138 | -4.7 | 4.9 | 0.2 | 4 | J | 343 | 17.5 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 357 | 11.5 | 0 | C | 8.1 | -17 | 158 | -6.8 | 1.3 | -3.3 | 3 | J | 351 | 17.0 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 357 | 11.5 | 0 | C | 8.2 | -5 | 159 | -7.1 | 2.0 | -2.0 | 3 | J | 342 | 18.2 | 0 | C | 4.8 | -13 | 299 | 2.2 | -4.0 | 1.2 | 1 | J |
| 9 | 367 | 11.0 | 0 | C | 8.0 | -8 | 110 | -2.2 | 4.5 | -4.0 | 5 | J | 340 | 18.0 | 0 | C | 5.2 | -14 | 316 | 3.6 | -3.6 | 0.8 | 1 | J |
| 10 | 363 | 6.5 | 35 | J | 8.5 | 36 | 160 | -6.5 | 4.7 | 2.8 | 1 | J | 336 | 14.0 | 29 | J | 4.9 | -21 | 321 | 3.5 | -3.3 | 0.1 | 1 | J |
| 11 | 355 | 7.2 | 56 | J | 8.9 | 16 | 155 | -7.5 | 4.2 | -0.0 | 2 | J | 346 | 14.5 | 29 | J | 5.9 | -23 | 330 | 4.5 | -3.4 | -0.4 | 1 | J |
| 12 | 348 | 7.3 | 68 | J | 9.0 | 18 | 164 | -8.1 | 3.5 | 1.0 | 1 | J | 342 | 15.6 | 24 | J | 5.6 | -18 | 321 | 4.1 | -3.7 | 0.4 | 1 | J |
| 13 | 349 | 7.9 | 78 | J | 9.1 | 12 | 158 | -8.0 | 3.7 | -0.2 | 2 | J | 350 | 17.0 | 32 | J | 5.4 | 10 | 214 | -4.2 | -1.9 | 2.3 | 1 | J |
| 14 | 352 | 8.9 | 89 | J | 8.9 | -13 | 155 | -7.4 | 2.0 | -3.4 | 3 | J | 343 | 19.2 | 31 | J | 5.4 | -1 | 223 | -3.7 | -3.0 | 1.7 | 2 | J |
| 15 | 365 | 11.3 | 36 | J | 8.8 | -43 | 151 | -5.2 | -0.1 | -6.2 | 3 | J | 334 | 19.5 | 31 | J | 5.4 | -7 | 293 | 1.1 | -2.4 | 0.9 | 5 | J |
| 16 | 380 | 17.8 | 27 | J | 8.1 | -62 | 206 | -3.3 | -4.4 | -5.5 | 2 | J | 345 | 21.8 | 56 | J | 5.9 | -5 | 276 | 0.4 | -3.3 | 1.2 | 5 | J |
| 17 | 360 | 20.0 | 0 | C | 7.9 | -63 | 187 | -3.4 | -2.9 | -6.0 | 3 | J | 353 | 22.8 | 71 | J | 6.1 | 39 | 274 | 0.3 | -2.5 | 4.6 | 3 | J |
| 18 | 366 | 21.0 | 0 | C | 7.1 | -58 | 190 | -3.4 | -2.4 | -5.1 | 3 | J | 340 | 18.8 | 34 | J | 6.8 | 23 | 343 | 5.8 | -0.8 | 3.0 | 2 | J |
| 19 | 338 | 19.5 | 17 | J | 7.4 | -12 | 161 | -5.6 | 1.5 | -1.8 | 4 | J | 336 | 18.8 | 32 | J | 7.9 | 36 | 347 | 5.9 | -0.0 | 4.6 | 2 | J |
| 20 | 362 | 20.7 | 40 | J | 4.9 | -56 | 273 | 0.1 | -3.2 | -2.9 | 2 | J | 325 | 27.1 | 0 | C | 8.1 | 40 | 332 | 4.8 | -1.3 | 5.1 | 4 | J |
| 21 | 408 | 14.1 | 79 | J | 7.7 | -16 | 309 | 4.6 | -6.0 | -0.8 | 1 | J | 362 | 19.1 | 68 | J | 8.3 | 29 | 299 | 3.1 | -4.7 | 4.7 | 4 | J |
| 22 | 396 | 11.3 | 85 | J | 7.9 | -16 | 310 | 4.9 | -6.1 | -1.0 | 1 | J | 337 | 27.5 | 0 | C | 8.1 | 12 | 288 | 2.4 | -6.9 | 3.1 | 2 | J |
| 23 | 394 | 12.2 | 114 | J | 7.6 | -23 | 297 | 3.1 | -6.5 | -1.7 | 2 | J | 357 | 21.1 | 51 | J | 8.2 | -27 | 262 | -0.8 | -6.1 | -1.8 | 5 | J |
| 24 | 396 | 11.3 | 118 | J | 7.1 | -14 | 304 | 3.8 | -5.9 | -0.5 | 1 | J | 362 | 20.4 | 56 | J | 9.2 | -41 | 247 | -2.7 | -7.3 | -4.5 | 2 | J |
|  |  |  |  |  |  | OCT. 10, 1982 |  |  |  |  |  | 283 |  |  |  |  |  | OCT. 11, 1982 |  |  |  |  |  | 284 |
| 1 | 342 | 29.7 | 0 | C |  |  |  |  |  |  |  |  | 490 | 13.9 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 348 | 28.3 | 0 | C |  |  |  |  |  |  |  |  | 490 | 12.9 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 346 | 29.6 | 0 | C |  |  |  |  |  |  |  |  | 486 | 11.7 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 362 | 33.1 | 0 | C |  |  |  |  |  |  |  |  | 479 | 11.2 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 362 | 33.1 | 0 | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 379 | 30.1 | 83 | J | 12.8 | 8 | 310 | 7.5 | -7.3 | 5.4 | 5 | J | 461 | 18.0 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 385 | 20.9 | 41 | J | 14.0 | 3 | 303 | 7.2 | -9.4 | 5.9 | 4 | J | 461 | 18.0 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 363 | 27.8 | 0 | C | 15.1 | 24 | 326 | 11.4 | -3.4 | 9.2 | 1 | J | 462 | 18.0 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 397 | 20.5 | 58 | J | 13.3 | 19 | 327 | 9.9 | -3.2 | 6.9 | 4 | J | 466 | 17.0 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 392 | 34.9 | 0 | C |  |  |  |  |  |  |  |  | 467 | 18.9 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 399 | 37.4 | 0 | C | 14.9 | 26 | 319 | 9.6 | -3.5 | 9.8 | 4 | J | 467 | 16.7 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 414 | 20.3 | 105 | J | 15.9 | -14 | 302 | 5.9 | -9.4 | 2.9 | 11 | J | 481 | 15.1 | 0 | C |  |  |  |  |  |  |  |  |
| 13 | 461 | 25.2 | 94 | J | 15.1 | 15 | 301 | 6.6 | -7.4 | 8.7 | 7 | J | 479 | 16.6 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 456 | 28.0 | 93 | J | 13.3 | 13 | 313 | 6.5 | -4.9 | 5.4 | 9 | J | 477 | 16.3 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 452 | 29.8 | 156 | J |  |  |  |  |  |  |  |  | 486 | 16.3 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 461 | 26.2 | 0 | C |  |  |  |  |  |  |  |  | 481 | 14.0 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 477 | 22.9 | 0 | C |  |  |  |  |  |  |  |  | 502 | 13.9 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 501 | 19.7 | 0 | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | 492 | 18.0 | 0 | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 546 | 15.9 | 0 | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 502 | 14.5 | 0 | C |  |  |  |  |  |  |  |  | 494 | 13.8 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 489 | 13.3 | 0 | C |  |  |  |  |  |  |  |  | 494 | 13.8 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 520 | 13.1 | 0 | C |  |  |  |  |  |  |  |  | 486 | 13.6 | 0 | C |  |  |  |  |  |  |  |  |
| 24 | 486 | 13.7 | 0 | C |  |  |  |  |  |  |  |  | 502 | 14.2 | 0 | C |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | OCT. 12, 1982 |  |  |  |  |  | 285 |  |  |  |  |  | OCT. 13, 1982 |  |  |  |  |  | 286 |
| 1 | 494 | 13.8 | 0 | C |  |  |  |  |  |  |  |  | 459 | 10.6 | 0 | C |  |  |  |  |  |  |  |  |
| 2 | 486 | 13.7 | 0 | C |  |  |  |  |  |  |  |  | 457 | 11.3 | 0 | C |  |  |  |  |  |  |  |  |
| 3 | 488 | 14.5 | 0 | C |  |  |  |  |  |  |  |  | 466 | 11.9 | 0 | C |  |  |  |  |  |  |  |  |
| 4 | 489 | 14.4 | 0 | C |  |  |  |  |  |  |  |  | 474 | 11.4 | 0 | C |  |  |  |  |  |  |  |  |
| 5 | 488 | 14.4 | 0 | C |  |  |  |  |  |  |  |  | 476 | 11.0 | 0 | C |  |  |  |  |  |  |  |  |
| 6 | 494 | 13.7 | 0 | C |  |  |  |  |  |  |  |  | 453 | 9.1 | 0 | C |  |  |  |  |  |  |  |  |
| 7 | 492 | 12.5 | 0 | C |  |  |  |  |  |  |  |  | 453 | 9.1 | 0 | C |  |  |  |  |  |  |  |  |
| 8 | 492 | 11.1 | 0 | C |  |  |  |  |  |  |  |  | 452 | 9.4 | 0 | C |  |  |  |  |  |  |  |  |
| 9 | 497 | 10.1 | 0 | C |  |  |  |  |  |  |  |  | 451 | 8.7 | 0 | C |  |  |  |  |  |  |  |  |
| 10 | 497 | 10.0 | 0 | C |  |  |  |  |  |  |  |  | 452 | 8.2 | 0 | C |  |  |  |  |  |  |  |  |
| 11 | 492 | 9.8 | 0 | C |  |  |  |  |  |  |  |  | 435 | 8.5 | 0 | C |  |  |  |  |  |  |  |  |
| 12 | 489 | 9.7 | 0 | C |  |  |  |  |  |  |  |  | 413 | 8.2 | 0 | C |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  | 410 | 7.8 | 0 | C |  |  |  |  |  |  |  |  |
| 14 | 462 | 8.0 | 0 | C |  |  |  |  |  |  |  |  | 408 | 7.7 | 0 | C |  |  |  |  |  |  |  |  |
| 15 | 462 | 8.0 | 0 | C |  |  |  |  |  |  |  |  | 398 | 8.0 | 0 | C |  |  |  |  |  |  |  |  |
| 16 | 464 | 8.4 | 0 | C |  |  |  |  |  |  |  |  | 398 | 8.0 | 0 | C |  |  |  |  |  |  |  |  |
| 17 | 470 | 8.8 | 0 | C |  |  |  |  |  |  |  |  | 412 | 8.2 | 0 | C |  |  |  |  |  |  |  |  |
| 18 | 475 | 8.6 | 0 | C |  |  |  |  |  |  |  |  | 415 | 8.1 | 0 | C |  |  |  |  |  |  |  |  |
| 19 | 468 | 8.2 | 0 | C |  |  |  |  |  |  |  |  | 419 | 7.9 | 0 | C |  |  |  |  |  |  |  |  |
| 20 | 481 | 9.5 | 0 | C |  |  |  |  |  |  |  |  | 433 | 8.1 | 0 | C |  |  |  |  |  |  |  |  |
| 21 | 499 | 11.1 | 0 | C |  |  |  |  |  |  |  |  | 435 | 8.6 | 0 | C |  |  |  |  |  |  |  |  |
| 22 | 487 | 10.9 | 0 | C |  |  |  |  |  |  |  |  | 430 | 8.5 | 0 | C |  |  |  |  |  |  |  |  |
| 23 | 469 | 10.3 | 0 | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 470 | 9.7 | 0 | C |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

# 10/14/82 – 10/21/82

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HR    VEL  DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF      VEL  DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000   SC   MAGN LAT LON                     SC                 1000   SC   MAGN LAT LON                     SC

                               OCT. 14, 1982                287                             OCT. 15, 1982                288

 1                                                                    352  6.0   0  C
 2    419  8.6   0  C                                             355  5.6   0  C
 3    419  8.6   0  C                                             366  5.1   0  C
 4    396  8.6   0  C                                             378  5.1   0  C
 5    396  8.6   0  C                                             384  6.2   0  C
 6    395  8.7   0  C                                             371  6.5   0  C
 7    386  8.3   0  C                                             365  6.5   0  C
 8    386  8.2   0  C                                             363  7.9   0  C
 9    382  8.1   0  C                                             374  9.5   0  C
10    381  8.5   0  C                                             373  9.7   0  C
11                                                                    372  9.6   0  C
12                                                                    370 10.6   0  C
13                                                                    365 11.0   0  C
14                                                                    372 15.0   0  C
15    379  9.7   0  C                                             386 16.3   0  C
16    379  9.7   0  C                                             381 16.6   0  C
17    376  9.3   0  C                                             382 17.3   0  C
18    373  9.2   0  C                                             371 19.0   0  C
19    376  8.8   0  C                                             378 19.7   0  C
20    378  9.8   0  C                                             378 18.9   0  C
21    369  8.9   0  C                                             384 19.4   0  C   10.5  20 289   2.7  -7.1   4.6  5  J
22    343  9.3   0  C                                             387 19.8   0  C   10.4  15 287   2.2  -6.7   3.3  7  J
23    330  8.9   0  C                                             383 21.9   0  C
24    347  7.4   0  C                                             383 21.9   0  C

                               OCT. 16, 1982                289                             OCT. 17, 1982                290

 1    443 24.3  91  J   10.9   3 306   4.9  -6.5   1.8  7  J
 2    407 17.2 105  J   11.3 -40 298   3.9  -8.7  -5.0  3  J
 3    421 16.4 188  J   11.8  54 272   0.2  -3.5   9.6  6  J      579  9.9 100  J   10.4 -21   6   8.7  -0.0  -3.5  4  J
 4                                                                    627 13.8 115  J    9.9 -12 337   7.9  -3.8  -0.6  4  J
 5    476 16.7 100  J   10.5  34 320   5.9  -2.6   6.7  5  J      582 14.8 137  J    9.0  13 328   6.6  -3.2   3.2  4  J
 6                                                                    684 19.9 115  J    9.0  52 300   2.6  -1.3   7.9  3  J
 7    478 21.9 135  J   12.9   6 305   6.7  -7.8   5.6  5  J      720 19.3 126  J    9.3  42 318   4.5  -1.0   6.8  4  J
 8    504 32.8  90  J   13.3  36 314   6.1  -2.2   8.7  8  J      549 21.4 102  J    8.7   1 333   7.2  -3.1   2.0  3  J
 9    511 32.3 100  J   13.8  18 303   6.8  -6.8   9.1  4  J      583 18.8  89  J    8.9   4 327   6.2  -3.1   2.6  5  J
10    506 31.3 108  J   12.9   3 304   6.1  -7.3   5.5  7  J      585 24.4 108  J    7.9  50 305   2.0  -0.1   4.9  6  J
11    515 35.1 151  J   13.2  -4 305   6.2  -7.9   4.3  7  J      588 26.5 126  J    7.2   5 351   2.3  -0.2   0.4  7  J
12    515 37.3 100  J   12.1  24 307   5.6  -4.0   7.4  7  J      595 24.8 137  J    6.8  15 316   2.2  -1.4   1.9  6  J
13    520 38.6 101  J   12.0   4 310   6.4  -6.2   4.6  6  J
14    489 27.5  59  J   12.0  40 316   6.6  -1.7   9.8  1  J
15    521 35.2 108  J   11.1   7 326   8.6  -4.6   3.8  4  J      583 13.2  65  J    8.4  24 324   4.5  -1.8   3.7  6  J
16    556 41.2 106  J   10.9 -36 332   6.6  -5.5  -3.5  5  J      577 17.3  72  J    8.5  34 317   4.2  -2.0   5.2  5  J
17    520 43.9  86  J   11.0 -10 302   4.2  -6.8   1.2  7  J      598 20.3  99  J    8.2  48 344   4.2   0.6   5.0  5  J
18    537 35.4  99  J   10.8  25 313   4.5  -3.6   4.5  8  J      557 18.9  75  J    7.8 -17  17   5.3   1.0  -2.1  5  J
19    517 33.4  80  J   10.4  15 306   5.3  -6.3   4.3  4  J      554 21.7  66  J    8.3   5 342   6.7  -1.9   1.2  4  J
20    562 32.8  87  J   10.6  -7 309   5.6  -7.0   0.5  5  J      584 20.3  71  J    8.6 -24 319   5.0  -4.9  -1.9  5  J
21    554 27.8 150  J    9.2  19 308   3.8  -4.4   3.1  7  J      569 19.9  67  J    8.8  -5 303   4.0  -6.1   0.6  5  J
22    548 19.9 119  J   11.8 -16 312   6.6  -7.8  -1.4  6  J      564 18.4  57  J    8.8 -38 326   5.1  -4.2  -4.1  4  J
23    573 18.5 111  J   10.8  27 312   5.6  -5.4   5.3  5  J      588 14.1  83  J    9.1 -25 313   5.5  -6.5  -2.7  2  J
24    560 14.3 159  J   11.0   6 319   7.8  -6.5   2.3  3  J      602 25.9 103  J

                               OCT. 18, 1982                291                             OCT. 19, 1982                292

 1    602 22.4  78  J    7.5 -10 292   2.2  -5.5   0.1  5  J      585  6.2  90  J    3.3 -28 197  -0.9  -0.4  -0.5  3  J
 2    572 23.5  96  J    7.1 -14 342   4.9  -1.8  -0.9  5  J      574  9.1  72  J    3.3  70 180  -0.3   0.2   0.8  3  J
 3    574 28.3  96  J    7.8  19  38   5.3   4.6   1.1  3  J      583 17.7  79  J    3.7  42 114  -0.3   0.8   0.4  4  J
 4    556 21.8  74  J    8.0  -9 337   6.2  -2.8  -0.2  4  J      595  9.5  89  J    6.2  38 175  -4.1   1.4   2.9  4  J
 5    600 19.9  86  J    8.3   6 292   2.5  -5.6   3.0  5  J
 6                       7.8   0 280   1.2  -6.3   2.9  3  J
 7                       3.5  35  56   1.6   3.0   0.6  1  J
 8    615 14.8 117  J    7.1  32 263  -0.5  -2.4   4.7  5  J
 9    612 15.1 126  J    5.7   0 317   3.1  -2.4   1.5  4  J
10    597 13.0 111  J
11
12                                                                                       6.9 -16 299   3.2  -5.8   1.5  1  J
13                                                                    587  9.8 518  J    8.0 -26 308   3.7  -5.5  -0.1  5  J
14    598 16.7  93  J    5.9 -27  13   4.9  -0.3  -2.8  2  J
15                                                                                       7.7  -4 257  -1.4  -5.8   2.4  4  J
16    620 15.1  61  J    7.6 -41   9   5.1  -1.1  -4.5  3  J
17    607 14.7 106  J    6.9  20 335   5.3  -1.5   2.9  3  J
18    623 10.8  91  J    6.2  13 332   4.6  -2.0   1.9  3  J
19    628  6.9 471  J    4.7   4 298   1.6  -2.8   1.0  3  J      557 18.0  92  J    7.0 -41  21   3.7   0.5  -3.7  4  J
20    626  7.6 410  J    4.3  -4 288   0.8  -2.5   0.4  3  J      593  9.3 116  J    5.1 -12 326   2.7  -1.9  -0.3  4  J
21    641  6.0 274  J    3.7 -30 342   2.7  -1.2  -1.4  2  J      595 12.4  74  J    5.2 -44 349   3.1  -1.2  -2.9  3  J
22                                                                    607 12.2 102  J    5.3 -23  25   3.4   1.3  -1.9  3  J
23                                                                    592  9.2 141  J    4.5 -30 346   3.0  -1.0  -1.6  3  J
24                       4.2 -23 294   1.5  -3.6  -0.9  1  J

                               OCT. 20, 1982                293                             OCT. 21, 1982                294

 1
 2
 3
 4                                                                    530 13.9  58  J    5.4  -1 274   0.4  -5.0   1.5  2  J
 5                                                                    523 16.4  59  J    5.1 -27 288   1.0  -3.3  -0.4  4  J
 6    612 13.4 118  J    5.7 -13   9   3.4   0.2  -0.9  4  J      493 14.6  55  J    5.1 -28 334   3.4  -2.4  -1.1  3  J
 7    593 12.5 143  J    5.7 -18  13   4.4   0.2  -1.8  3  J      484 15.4  46  J    5.2  -4 339   4.3  -1.6   0.5  2  J
 8    585 13.6  95  J    6.0 -16  24   4.7   1.1  -2.3  3  J      497 13.8  60  J    5.5  11 325   3.7  -1.8   2.0  3  J
 9    587 12.2 119  J    5.4 -17  21   4.3   0.7  -2.1  3  J      488 15.3  50  J    5.8   4 344   4.3  -0.9   0.9  4  J
10    673 12.1 120  J    5.2  14 237  -1.6  -1.7   1.9  4  J      488 15.0  59  J
11    614 11.9 122  J    4.3   1 273   0.2  -2.6   1.7  3  J                         6.7  31 312   2.9  -1.3   3.9  4  J
12
13
14    594 15.6 109  J    5.3   3 340   4.0  -1.2   0.9  3  J
15                       5.1  13 334   3.9  -1.3   1.8  2  J
16                       5.2   2  51   3.0   3.5  -1.3  2  J      449  6.3  65  J    6.8  15 351   6.3  -0.2   2.0  1  J
17                       6.0  34 215  -3.4  -1.2   3.5  3  J      437  6.9  66  J    6.9 -18 337   5.8  -3.0  -1.0  2  J
18    588 12.8  71  J    6.1  34 216  -3.8  -1.6   3.8  2  J      435  7.0  83  J    6.8  -7 348   6.1  -1.5  -0.3  3  J
19                       5.0  30 208  -3.3  -1.1   2.5  2  J      430  7.4  97  J    6.7 -14 339   5.8  -2.5  -0.9  2  J
20    547 16.5 100  J    6.8  31 207  -5.0  -1.7   3.8  2  J      446  7.8  58  J    6.4  -6 312   4.1  -4.5   0.4  2  J
21    540  9.2 200  J    5.2  25 284   0.8  -2.8   2.1  4  J      473 18.2  42  J    5.3  11 279   0.7  -4.4   1.8  3  J
22    537  8.5 138  J    5.4  12 308   3.1  -3.7   1.7  2  J
23    495 15.0  38  J    5.9   8 338   5.1  -1.9   1.1  2  J
24                       5.8   0 342   5.4  -1.7   0.3  1  J
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ORIGINAL PAGE IS
OF POOR QUALITY

OCT. 22, 1982    295

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 455 | 16.4 | 27 | J | 4.0 | -14 | 336 | 3.5 | -1.8 | -0.6 | 0 | J |
| 3 | 442 | 17.0 | 31 | J | 3.7 | -11 | 330 | 3.1 | -1.9 | -0.2 | 1 | J |
| 4 | 443 | 16.6 | 30 | J | 3.4 | -9 | 300 | 1.6 | -2.8 | 0.4 | 1 | J |
| 5 | 444 | 16.4 | 30 | J | 3.7 | -3 | 316 | 2.7 | -2.5 | 0.7 | 1 | J |
| 6 | 430 | 14.8 | 23 | J | 3.9 | 8 | 301 | 1.9 | -2.7 | 1.8 | 1 | J |
| 7 | 445 | 17.8 | 34 | J | 3.7 | 1 | 312 | 2.5 | -2.4 | 1.3 | 1 | J |
| 8 | 418 | 18.1 | 31 | J | 4.3 | 5 | 314 | 2.9 | -2.4 | 1.8 | 0 | J |
| 9 | 416 | 17.8 | 26 | J | 4.2 | 1 | 312 | 2.8 | -2.6 | 1.7 | 0 | J |
| 10 | 415 | 18.5 | 22 | J | 3.9 | -1 | 325 | 3.2 | -1.9 | 1.1 | 0 | J |
| 11 | | | | | 3.9 | -6 | 16 | 3.3 | 0.6 | -0.8 | 2 | J |
| 12 | | | | | 3.8 | -5 | 338 | 3.5 | -1.4 | 0.5 | 1 | J |
| 13 | | | | | 3.9 | -7 | 345 | 3.7 | -1.1 | 0.1 | 1 | J |
| 14 | | | | | 4.0 | -1 | 352 | 4.0 | -0.5 | 0.2 | 0 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

OCT. 23, 1982    296

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 4.0 | 6 | 15 | 3.6 | 1.0 | 0.2 | 2 | J |
| 2 | | | | | 5.2 | 10 | 45 | 3.6 | 3.7 | 0.1 | 1 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | 5.3 | -12 | 12 | 4.3 | 0.5 | -1.2 | 2 | J |
| 6 | 357 | 9.6 | 25 | J | 5.4 | -16 | 9 | 4.5 | 0.1 | -1.5 | 2 | J |
| 7 | 355 | 11.7 | 18 | J | 4.4 | -16 | 3 | 3.8 | -0.3 | -1.1 | 2 | J |
| 8 | 351 | 14.3 | 15 | J | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | 3.6 | 9 | 21 | 2.6 | 1.1 | -0.2 | 2 | J |
| 11 | | | | | 2.7 | 3 | 12 | 2.1 | 0.4 | -0.1 | 2 | J |
| 12 | | | | | 2.3 | 30 | 348 | 1.5 | 0.2 | 0.9 | 1 | J |
| 13 | | | | | 1.7 | 15 | 244 | -0.3 | -0.4 | 0.5 | 2 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

OCT. 27, 1982    300

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
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| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 4.2 | 4 | 188 | -3.7 | -0.5 | 0.3 | 2 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | 7.7 | -15 | 321 | 5.5 | -4.7 | -1.2 | 2 | J |

OCT. 28, 1982    301

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 7.2 | -16 | 326 | 5.4 | -3.9 | -1.3 | 2 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | 6.7 | -15 | 302 | 2.7 | -4.5 | -0.3 | 4 | J |
| 4 | | | | | 7.1 | -17 | 314 | 4.3 | -4.8 | -0.5 | 3 | J |
| 5 | | | | | 7.9 | -11 | 292 | 2.8 | -6.9 | 1.0 | 2 | J |
| 6 | | | | | 16.3 | -53 | 303 | 5.2 | -12.3 | -8.5 | 6 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | 6.9 | -26 | 303 | 3.3 | -5.8 | -0.2 | 2 | J |
| 9 | 352 | 10.0 | 39 | J | 6.5 | -9 | 12 | 6.1 | 0.6 | -1.5 | 2 | J |
| 10 | 359 | 9.2 | 33 | J | 6.6 | -27 | 2 | 4.8 | -1.1 | -2.2 | 4 | J |
| 11 | 344 | 9.9 | 33 | J | 6.8 | -39 | 7 | 4.7 | -1.5 | -3.6 | 3 | J |
| 12 | 336 | 14.4 | 16 | J | 7.3 | -32 | 341 | 5.8 | -3.7 | -2.3 | 1 | J |
| 13 | 345 | 13.5 | 28 | J | 7.0 | -42 | 342 | 4.6 | -3.4 | -3.1 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 7.5 | 1 | 337 | 6.4 | -2.6 | 0.6 | 3 | J |
| 22 | | | | | 5.9 | 16 | 31 | 3.0 | 2.0 | 0.8 | 5 | J |
| 23 | | | | | 6.8 | 22 | 67 | 1.8 | 4.6 | 1.3 | 5 | J |
| 24 | | | | | 5.1 | 38 | 51 | 1.6 | 2.2 | 1.7 | 4 | J |

OCT. 29, 1982    302

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.5 | 20 | 141 | -3.8 | 3.3 | 1.3 | 2 | J |
| 2 | 373 | 69.8 | 40 | J | 6.4 | 65 | 47 | 0.4 | 0.6 | 1.1 | 7 | J |
| 3 | | | | | 14.5 | 56 | 84 | 0.3 | 3.3 | 3.0 | 14 | J |
| 4 | | | | | 16.7 | 18 | 122 | -8.4 | 14.4 | 1.1 | 0 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 457 | 12.8 | 333 | J | 17.9 | -12 | 131 | -10.6 | 9.1 | -8.8 | 7 | J |
| 9 | 486 | 11.8 | 339 | J | 18.8 | 8 | 136 | -4.7 | 15.6 | -6.2 | 7 | J |
| 10 | 560 | 9.7 | 519 | J | 15.1 | -46 | 160 | -6.6 | -1.7 | -7.5 | 11 | J |
| 11 | 560 | 5.7 | 199 | J | 14.5 | -44 | 217 | -8.1 | -10.3 | -5.2 | 3 | J |
| 12 | 575 | 5.5 | 458 | J | 13.9 | -45 | 181 | -9.5 | -4.9 | -8.1 | 3 | J |
| 13 | 636 | 4.9 | 203 | J | 13.8 | -31 | 161 | -10.5 | -0.1 | -7.6 | 5 | J |
| 14 | 678 | 6.3 | 231 | J | 13.5 | -24 | 143 | -9.3 | 3.9 | -7.8 | 4 | J |
| 15 | | | | | 14.9 | -25 | 161 | -12.4 | 1.3 | -7.4 | 3 | J |
| 16 | | | | | 14.6 | -8 | 140 | -10.2 | 7.2 | -4.9 | 6 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 10.8 | -11 | 155 | -8.0 | 3.1 | -2.7 | 6 | J |
| 19 | 690 | 3.1 | 132 | J | 8.7 | -2 | 165 | -7.0 | 1.8 | -0.7 | 5 | J |
| 20 | 736 | 2.8 | 232 | J | 8.3 | 1 | 177 | -7.1 | 0.4 | 0.1 | 4 | J |
| 21 | 739 | 4.0 | 365 | J | 8.3 | -16 | 154 | -6.0 | 2.6 | -2.4 | 4 | J |
| 22 | 666 | 5.8 | 411 | J | 8.8 | -7 | 163 | -7.6 | 2.2 | -1.3 | 3 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

OCT. 30, 1982    303

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 597 | 6.4 | 307 | J | 7.0 | -46 | 144 | -3.3 | 1.5 | -4.5 | 4 | J |
| 3 | 617 | 5.6 | 199 | J | 7.2 | -11 | 112 | -2.2 | 5.0 | -2.3 | 4 | J |
| 4 | 617 | 6.6 | 245 | J | 8.3 | 16 | 131 | -4.6 | 5.6 | 0.4 | 4 | J |
| 5 | 589 | 6.2 | 181 | J | 8.2 | -8 | 146 | -6.3 | 3.7 | -2.4 | 3 | J |
| 6 | 602 | 12.4 | 3293 | J | 7.8 | -12 | 161 | -6.9 | 1.6 | -2.4 | 2 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 602 | 6.4 | 642 | J | 9.3 | -47 | 152 | -5.1 | -0.8 | -6.7 | 4 | J |
| 11 | 600 | 3.7 | 129 | J | 10.6 | -2 | 119 | -4.9 | 7.4 | -4.8 | 3 | J |
| 12 | 590 | 7.3 | 410 | J | 10.4 | -40 | 123 | -3.5 | 2.0 | -7.5 | 6 | J |
| 13 | 611 | 6.4 | 292 | J | 9.0 | -62 | 108 | -1.0 | -0.2 | -6.8 | 6 | J |
| 14 | 541 | 1.9 | 147 | J | 8.9 | -14 | 112 | -3.2 | 6.0 | -5.4 | 2 | J |
| 15 | 574 | 5.4 | 120 | J | 9.3 | -28 | 120 | -4.0 | 4.6 | -6.8 | 2 | J |
| 16 | | | | | 9.1 | -21 | 102 | -1.7 | 6.2 | -5.8 | 3 | J |
| 17 | 559 | 4.8 | 97 | J | 7.8 | -20 | 87 | 0.4 | 5.6 | -4.5 | 3 | J |
| 18 | 528 | 5.5 | 114 | J | 7.6 | -33 | 119 | -3.0 | 4.2 | -5.4 | 1 | J |
| 19 | 510 | 6.2 | 86 | J | 7.9 | -29 | 119 | -3.3 | 5.0 | -5.0 | 2 | J |
| 20 | 500 | 12.2 | 71 | J | 8.9 | 14 | 115 | -3.4 | 7.6 | 0.6 | 3 | J |
| 21 | 517 | 20.9 | 44 | J | 9.0 | -4 | 104 | -2.1 | 8.0 | -1.9 | 3 | J |
| 22 | 503 | 26.1 | 48 | J | 10.4 | 8 | 103 | -2.1 | 9.1 | 0.1 | 5 | J |
| 23 | 517 | 13.5 | 55 | J | 8.1 | 4 | 105 | -1.9 | 7.1 | -0.4 | 3 | J |
| 24 | 502 | 7.2 | 89 | J | 8.2 | 1 | 124 | -4.5 | 6.7 | -0.7 | 1 | J |

OCT. 31, 1982    304

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 527 | 4.7 | 82 | J | 7.7 | 3 | 154 | -6.5 | 3.2 | -0.1 | 3 | J |
| 2 | 506 | 5.6 | 72 | J | 8.9 | 7 | 124 | -4.7 | 7.0 | -0.3 | 3 | J |
| 3 | 519 | 4.6 | 66 | J | 9.6 | 18 | 134 | -6.1 | 6.8 | 1.3 | 3 | J |
| 4 | 498 | 2.8 | 59 | J | 9.7 | 29 | 172 | -8.0 | 2.3 | 4.0 | 3 | J |
| 5 | 537 | 4.5 | 114 | J | 9.3 | 17 | 103 | -1.7 | 7.5 | -0.3 | 5 | J |
| 6 | 572 | 7.6 | 126 | J | 6.8 | -3 | 76 | 0.7 | 2.5 | -1.2 | 6 | J |
| 7 | 564 | 8.2 | 541 | J | 7.7 | 13 | 213 | -4.9 | -2.3 | 2.6 | 5 | J |
| 8 | | | | | 9.2 | 23 | 196 | -8.1 | -0.4 | 4.2 | 1 | J |
| 9 | | | | | 9.0 | 29 | 188 | -7.7 | 1.2 | 4.3 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 683 | 33.0 | 324 | J | 10.4 | 70 | 239 | -1.3 | -1.3 | 7.0 | 8 | J |
| 24 | 638 | 30.1 | 153 | J | 12.6 | 7 | 246 | -3.8 | -8.2 | 2.2 | 8 | J |

NOV. 1, 1982    305

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 650 | 34.1 | 90 | J | 12.5 | -50 | 240 | -3.4 | -7.1 | -7.2 | 7 | J |
| 2 | | | | | 7.1 | -26 | 86 | 0.4 | 5.1 | -3.8 | 3 | J |
| 3 | 669 | 27.3 | 116 | J | 8.8 | 8 | 82 | 1.0 | 7.4 | -0.6 | 5 | J |
| 4 | 639 | 19.2 | 93 | J | 9.9 | 17 | 51 | 5.8 | 7.6 | 0.8 | 2 | J |
| 5 | 629 | 5.4 | 100 | J | 9.9 | 19 | 40 | 7.0 | 6.6 | 1.1 | 2 | J |
| 6 | 675 | 15.7 | 191 | J | 7.7 | 6 | 27 | 6.2 | 3.2 | -0.5 | 3 | J |
| 7 | 647 | 12.4 | 170 | J | 8.0 | -3 | 330 | 6.0 | -3.3 | 1.1 | 4 | J |
| 8 | 601 | 15.9 | 91 | J | 7.7 | -34 | 322 | 4.4 | -4.8 | -1.7 | 4 | J |
| 9 | 599 | 14.2 | 73 | J | 7.4 | -62 | 342 | 3.2 | -4.0 | -5.0 | 2 | J |
| 10 | 581 | 9.3 | 71 | J | 7.2 | -77 | 337 | 1.4 | -4.0 | -5.6 | 2 | J |
| 11 | | | | | 7.3 | -67 | 332 | 2.4 | -4.4 | -5.0 | 2 | J |
| 12 | | | | | 6.3 | -45 | 67 | 1.7 | 1.3 | -5.7 | 2 | C |
| 13 | | | | | 6.0 | -38 | 73 | 1.4 | 2.2 | -5.3 | 1 | C |
| 14 | | | | | 6.2 | -36 | 66 | 2.0 | 2.3 | -5.1 | 1 | C |
| 15 | 577 | 4.8 | 119 | J | 6.2 | -54 | 76 | 0.9 | 1.2 | -6.0 | 0 | J |
| 16 | 547 | 4.5 | 68 | J | 5.9 | -53 | 94 | -0.2 | 1.6 | -5.6 | 1 | J |
| 17 | 537 | 5.6 | 45 | J | 5.5 | -44 | 89 | 0.1 | 2.5 | -4.8 | 1 | J |
| 18 | 541 | 7.6 | 60 | J | 5.1 | -73 | 118 | -0.6 | -0.0 | -4.7 | 2 | J |
| 19 | 509 | 4.0 | 60 | J | 5.2 | -6 | 120 | -2.4 | 3.9 | -1.4 | 2 | J |
| 20 | 527 | 5.2 | 62 | J | 5.2 | -24 | 107 | -1.1 | 3.2 | -2.2 | 3 | J |
| 21 | 529 | 6.2 | 55 | J | 5.2 | -32 | 130 | -2.4 | 2.5 | -2.7 | 3 | J |
| 22 | 579 | 4.3 | 76 | J | 5.2 | -5 | 108 | -1.0 | 3.2 | -0.7 | 4 | J |
| 23 | 585 | 4.1 | 101 | J | 5.0 | -13 | 89 | 0.1 | 4.0 | -1.4 | 2 | J |
| 24 | | | | | 5.5 | -33 | 125 | -2.1 | 2.7 | -2.7 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.0 | -23 | 163 | -3.9 | 0.9 | -1.8 | 2 | C |
| 2 | 508 | 6.6 | 45 | J | 5.0 | -25 | 101 | -0.7 | 3.3 | -2.3 | 3 | J |
| 3 | | | | | 5.3 | 18 | 178 | -4.8 | 0.5 | 1.4 | 1 | C |
| 4 | | | | | 5.5 | 42 | 172 | -1.5 | 0.6 | 1.2 | 5 | C |
| 5 | | | | | 5.6 | 24 | 60 | 2.3 | 4.4 | 0.6 | 2 | C |
| 6 | | | | | 5.0 | 7 | 150 | -3.1 | 1.8 | -0.3 | 3 | C |
| 7 | 555 | 5.3 | 113 | J | 5.3 | 16 | 73 | 1.4 | 4.7 | -0.7 | 2 | J |
| 8 | 525 | 4.7 | 60 | J | 5.4 | 32 | 91 | -0.1 | 4.6 | 0.4 | 3 | J |
| 9 | 543 | 4.6 | 100 | J | 6.0 | 31 | 103 | -1.1 | 5.6 | 0.2 | 2 | J |
| 10 | 588 | 6.2 | 241 | J | 7.8 | 31 | 75 | 1.7 | 7.3 | 0.2 | 2 | J |
| 11 | 536 | 7.1 | 177 | J | 8.2 | -40 | 172 | -5.7 | -1.7 | -4.6 | 3 | J |
| 12 | | | | | 8.6 | 24 | 83 | 0.8 | 7.2 | -0.7 | 4 | J |
| 13 | 533 | 5.7 | 113 | J | 8.8 | -4 | 100 | -1.4 | 6.7 | -4.3 | 4 | J |
| 14 | 561 | 6.3 | 275 | J | 10.1 | 7 | 99 | -1.5 | 9.1 | -3.2 | 2 | J |
| 15 | 556 | 4.0 | 84 | J | 10.3 | -23 | 110 | -3.1 | 6.3 | -7.0 | 2 | J |
| 16 | | | | | 9.6 | -31 | 133 | -5.5 | 3.8 | -6.7 | 1 | C |
| 17 | 553 | 5.3 | 87 | J | 9.3 | -33 | 149 | -6.5 | 2.2 | -5.9 | 2 | J |
| 18 | 533 | 4.3 | 80 | J | 9.8 | -29 | 155 | -7.6 | 2.2 | -5.4 | 1 | J |
| 19 | 513 | 12.0 | 83 | J | 9.5 | -33 | 162 | -7.6 | 1.3 | -5.6 | 1 | J |
| 20 | 494 | 15.6 | 54 | J | 9.4 | -26 | 184 | -7.8 | -1.2 | -3.7 | 3 | J |
| 21 | 536 | 19.4 | 217 | J | 7.1 | -23 | 174 | -5.8 | 0.3 | -2.5 | 3 | J |
| 22 | 508 | 7.8 | 44 | J | 9.4 | -33 | 150 | -6.3 | 3.1 | -5.1 | 3 | J |
| 23 | 490 | 13.9 | 43 | J | 9.6 | -25 | 120 | -4.2 | 6.8 | -4.7 | 2 | J |
| 24 | | | | | 9.5 | -16 | 173 | -8.9 | 0.8 | -2.8 | 0 | C |

NOV. 3, 1982 307

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 9.9 | -10 | 155 | -7.5 | 3.3 | -2.0 | 5 | C |
| 2 | 447 | 6.6 | 67 | J | 10.0 | -32 | 192 | -7.9 | -2.5 | -4.7 | 3 | J |
| 3 | 468 | 7.3 | 76 | J | 9.8 | -39 | 164 | -6.9 | 0.7 | -6.1 | 3 | J |
| 4 | 463 | 6.0 | 55 | J | 10.1 | -22 | 121 | -4.5 | 6.3 | -5.4 | 3 | J |
| 5 | 480 | 26.5 | 23 | J | 9.9 | -6 | 106 | -2.7 | 8.5 | -3.9 | 2 | J |
| 6 | 492 | 22.4 | 59 | J | 9.5 | -5 | 110 | -3.1 | 7.6 | -3.9 | 3 | J |
| 7 | 480 | 18.8 | 46 | J | 9.6 | 2 | 124 | -5.1 | 7.0 | -2.9 | 2 | C |
| 8 | 501 | 15.8 | 36 | J | 9.2 | -29 | 127 | -4.7 | 3.6 | -6.8 | 2 | J |
| 9 | 465 | 12.1 | 78 | J | 9.1 | -27 | 130 | -4.9 | 3.3 | -6.3 | 3 | J |
| 10 | | | | | 9.3 | -32 | 117 | -3.3 | 3.4 | -7.2 | 3 | J |
| 11 | 463 | 17.8 | 69 | J | 8.5 | -13 | 97 | -0.9 | 5.8 | -5.4 | 3 | J |
| 12 | 432 | 9.5 | 71 | J | 9.2 | -14 | 128 | -5.4 | 5.0 | -5.3 | 1 | J |
| 13 | 418 | 9.8 | 47 | J | 9.1 | 3 | 159 | -7.6 | 2.8 | -1.0 | 4 | J |
| 14 | 450 | 11.4 | 65 | J | 8.6 | 47 | 175 | -5.2 | 2.9 | 4.9 | 4 | J |
| 15 | 431 | 5.3 | 35 | J | 8.3 | 47 | 197 | -5.2 | 0.9 | 5.9 | 2 | J |
| 16 | | | | | 8.2 | 33 | 190 | -6.7 | 0.5 | 4.5 | 1 | J |
| 17 | | | | | 7.0 | 30 | 187 | -5.5 | 0.3 | 3.3 | 2 | C |
| 18 | | | | | 7.0 | 22 | 169 | -6.0 | 1.8 | 2.1 | 2 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 6.4 | 29 | 146 | -4.0 | 3.1 | 2.3 | 3 | C |
| 22 | 435 | 5.0 | 182 | J | 5.9 | 26 | 177 | -5.2 | 0.6 | 2.5 | 1 | J |
| 23 | 404 | 4.4 | 117 | J | 5.1 | 18 | 172 | -4.8 | 0.8 | 1.5 | 0 | J |
| 24 | | | | | 4.7 | 15 | 162 | -4.3 | 1.5 | 1.1 | 0 | C |

NOV. 4, 1982 308

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.0 | 15 | 183 | -4.8 | -0.1 | 1.3 | 1 | C |
| 2 | 430 | 6.9 | 90 | J | 5.3 | 3 | 174 | -5.2 | 0.6 | 0.2 | 1 | J |
| 3 | 406 | 6.7 | 62 | J | 5.3 | -9 | 168 | -5.0 | 0.9 | -1.0 | 1 | J |
| 4 | 407 | 7.7 | 94 | J | 5.4 | 0 | 170 | -5.2 | 0.9 | -0.2 | 1 | J |
| 5 | 387 | 7.9 | 59 | J | 5.6 | -7 | 167 | -5.3 | 1.0 | -1.0 | 1 | J |
| 6 | 396 | 9.7 | 46 | J | 4.7 | 2 | 164 | -4.4 | 1.2 | -0.3 | 1 | J |
| 7 | 414 | 10.0 | 40 | J | 5.2 | -20 | 129 | -3.0 | 2.7 | -3.1 | 1 | J |
| 8 | 406 | 9.3 | 31 | J | 5.9 | -17 | 123 | -3.0 | 3.3 | -3.6 | 2 | J |
| 9 | 408 | 13.0 | 23 | J | 5.9 | -11 | 126 | -3.4 | 3.6 | -3.2 | 1 | J |
| 10 | 384 | 13.1 | 22 | J | 5.6 | -6 | 119 | -2.6 | 3.8 | -2.8 | 1 | J |
| 11 | 376 | 16.1 | 22 | J | 6.0 | -13 | 118 | -2.6 | 3.6 | -3.5 | 2 | J |
| 12 | | | | | 5.6 | -18 | 106 | -1.4 | 3.4 | -3.8 | 2 | J |
| 13 | 375 | 15.5 | 19 | J | 5.7 | -3 | 110 | -1.8 | 4.4 | -2.6 | 2 | J |
| 14 | | | | | 5.9 | 7 | 88 | 0.2 | 5.6 | -1.9 | 0 | J |
| 15 | | | | | 7.1 | 5 | 121 | -3.6 | 5.7 | -1.9 | 1 | C |
| 16 | | | | | 7.3 | 6 | 129 | -4.3 | 5.3 | -1.2 | 2 | C |
| 17 | | | | | 7.2 | 15 | 131 | -4.0 | 5.0 | 0.2 | 3 | C |
| 18 | | | | | 7.2 | -10 | 142 | -5.0 | 3.6 | -2.1 | 3 | C |
| 19 | 345 | 15.9 | 41 | J | 7.2 | -29 | 143 | -5.0 | 3.0 | -4.2 | 1 | J |
| 20 | 354 | 15.5 | 19 | J | 7.0 | -28 | 137 | -4.5 | 3.6 | -3.9 | 1 | J |
| 21 | 345 | 12.6 | 23 | J | 7.0 | -19 | 122 | -3.4 | 5.2 | -3.0 | 1 | C |
| 22 | 256 | 18.1 | 72 | J | | | | | | | | |
| 23 | 382 | 12.3 | 29 | J | 6.8 | -12 | 214 | -5.0 | -3.5 | -0.9 | 2 | J |
| 24 | 357 | 15.1 | 24 | J | 5.7 | -16 | 187 | -4.9 | -0.7 | -1.3 | 2 | J |

NOV. 5, 1982 309

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 365 | 14.6 | 19 | J | 5.5 | -12 | 138 | -3.5 | 3.0 | -1.4 | 3 | J |
| 2 | 387 | 13.4 | 40 | J | 6.7 | -2 | 73 | 1.5 | 4.7 | -0.9 | 4 | J |
| 3 | | | | | 5.8 | 6 | 22 | 5.3 | 2.2 | 0.1 | 1 | C |
| 4 | | | | | 7.1 | 12 | 7 | 6.8 | 1.2 | 1.2 | 1 | C |
| 5 | | | | | 7.3 | 14 | 14 | 6.9 | 2.1 | 1.2 | 1 | C |
| 6 | | | | | 6.7 | 2 | 18 | 6.3 | 2.0 | -0.5 | 1 | C |
| 7 | | | | | 6.5 | 14 | 24 | 5.7 | 3.0 | 0.4 | 1 | C |
| 8 | | | | | 6.6 | 15 | 21 | 5.8 | 2.7 | 0.5 | 1 | C |
| 9 | | | | | 6.0 | -28 | 9 | 5.0 | -0.6 | -2.7 | 2 | C |
| 10 | | | | | 6.8 | -2 | 21 | 6.2 | 2.0 | -1.4 | 1 | C |
| 11 | | | | | 6.9 | -15 | 31 | 5.2 | 1.9 | -3.0 | 3 | C |
| 12 | | | | | 6.8 | -7 | 37 | 5.0 | 2.9 | -2.5 | 2 | C |
| 13 | | | | | 5.7 | -20 | 17 | 4.8 | 0.4 | -2.3 | 2 | C |
| 14 | | | | | 5.7 | -25 | 6 | 4.1 | -0.5 | -1.9 | 3 | C |
| 15 | | | | | 6.2 | -24 | 6 | 5.3 | -0.5 | -2.4 | 2 | C |
| 16 | | | | | 6.5 | -15 | 355 | 5.0 | -0.9 | -1.1 | 3 | C |
| 17 | | | | | 6.6 | -20 | 342 | 5.6 | -2.4 | -1.5 | 2 | C |
| 18 | | | | | 5.4 | -43 | 293 | 1.2 | -3.5 | -2.1 | 3 | C |
| 19 | | | | | 4.8 | -53 | 283 | 0.6 | -3.5 | -3.1 | 0 | C |
| 20 | | | | | 5.9 | 43 | 334 | 3.9 | -1.2 | 4.2 | 0 | C |
| 21 | | | | | 5.1 | 36 | 6 | 4.0 | 0.8 | 2.8 | 1 | C |
| 22 | | | | | 5.4 | 38 | 341 | 3.9 | -1.0 | 3.4 | 1 | C |
| 23 | | | | | 4.8 | 2 | 305 | 2.5 | -3.5 | 0.5 | 2 | C |
| 24 | | | | | 4.9 | -59 | 287 | 0.6 | -2.3 | -3.2 | 3 | C |

NOV. 6, 1982 310

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 4.6 | 5 | 235 | -1.6 | -2.2 | 0.5 | 4 | C |
| 2 | | | | | 4.2 | -24 | 217 | -2.8 | -2.4 | -1.2 | 2 | C |
| 3 | | | | | 3.5 | -45 | 286 | 0.5 | -2.0 | -1.4 | 2 | C |
| 4 | | | | | 4.4 | -17 | 28 | 3.1 | 1.3 | -1.5 | 2 | C |
| 5 | | | | | 4.6 | -58 | 21 | 2.1 | -0.3 | -3.7 | 2 | C |
| 6 | | | | | 5.7 | -62 | 72 | 0.8 | 0.5 | -5.1 | 2 | C |
| 7 | | | | | 4.6 | -30 | 234 | -1.9 | -3.1 | -0.6 | 3 | C |
| 8 | | | | | 8.4 | 3 | 250 | -2.4 | -5.7 | 3.3 | 4 | C |
| 9 | | | | | 6.5 | -47 | 182 | -4.1 | -2.2 | -3.8 | 2 | C |
| 10 | | | | | 6.7 | -43 | 209 | -3.9 | -3.9 | -2.6 | 3 | C |
| 11 | | | | | 5.4 | -47 | 188 | -2.9 | -1.8 | -2.5 | 3 | C |
| 12 | | | | | 4.2 | -68 | 210 | -1.3 | -2.4 | -2.8 | 1 | C |
| 13 | | | | | 4.6 | -37 | 163 | -3.0 | -0.3 | -2.5 | 3 | C |
| 14 | | | | | 4.7 | -55 | 127 | -1.1 | 0.2 | -3.0 | 3 | C |
| 15 | | | | | 5.6 | -46 | 133 | -2.4 | 1.0 | -4.4 | 2 | C |
| 16 | | | | | 6.3 | -25 | 131 | -3.7 | 3.1 | -3.9 | 1 | C |
| 17 | | | | | 6.3 | -22 | 130 | -3.7 | 3.5 | -3.6 | 0 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 5.0 | -12 | 151 | -4.2 | 2.2 | -1.4 | 0 | C |
| 21 | | | | | 5.2 | -14 | 151 | -4.4 | 2.2 | -1.6 | 1 | C |
| 22 | | | | | 4.4 | -22 | 152 | -3.6 | 1.8 | -1.8 | 1 | C |
| 23 | | | | | 4.5 | -23 | 142 | -3.2 | 2.3 | -1.9 | 1 | C |
| 24 | | | | | 5.4 | 1 | 122 | -2.6 | 4.2 | -0.4 | 2 | C |

NOV. 7, 1982 311

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.6 | -38 | 209 | -3.8 | -2.5 | -3.1 | 1 | C |
| 2 | | | | | 6.6 | -36 | 180 | -4.7 | -0.5 | -3.4 | 3 | C |
| 3 | | | | | 6.4 | -23 | 278 | 0.8 | -6.0 | -1.3 | 1 | C |
| 4 | | | | | 5.1 | 6 | 333 | 3.9 | -1.8 | 1.0 | 3 | C |
| 5 | | | | | 3.3 | 23 | 49 | 1.6 | 2.1 | 0.4 | 2 | C |
| 6 | | | | | 3.0 | -4 | 49 | 1.8 | 1.8 | -0.9 | 1 | C |
| 7 | | | | | 3.8 | -64 | 251 | -0.2 | -1.0 | -0.9 | 3 | C |
| 8 | | | | | 7.3 | -65 | 275 | 0.2 | -4.9 | -3.9 | 4 | C |
| 9 | | | | | 6.7 | -6 | 306 | 3.3 | -4.3 | 1.7 | 3 | C |
| 10 | | | | | 5.4 | 11 | 352 | 3.6 | -0.1 | 0.9 | 4 | C |
| 11 | | | | | 5.5 | 23 | 8 | 4.9 | 1.6 | 1.5 | 1 | C |
| 12 | | | | | 4.8 | -4 | 337 | 3.9 | -1.6 | 0.5 | 2 | C |
| 13 | | | | | 4.6 | -38 | 304 | 1.9 | -3.7 | -1.1 | 1 | C |
| 14 | | | | | 3.8 | -35 | 289 | 0.9 | -3.2 | -0.7 | 1 | C |
| 15 | | | | | 4.1 | -15 | 314 | 2.4 | -2.7 | 0.1 | 2 | C |
| 16 | | | | | 4.5 | -19 | 322 | 3.3 | -2.9 | -0.5 | 1 | C |
| 17 | | | | | 4.6 | -23 | 317 | 3.0 | -3.2 | -0.9 | 1 | C |
| 18 | | | | | 4.9 | -5 | 314 | 3.3 | -3.5 | 0.4 | 1 | C |
| 19 | | | | | 4.8 | 9 | 333 | 4.0 | -1.8 | 1.1 | 1 | C |
| 20 | | | | | 4.8 | -9 | 327 | 3.7 | -2.5 | -0.4 | 1 | C |
| 21 | | | | | 4.6 | -12 | 312 | 2.8 | -3.2 | -0.5 | 1 | C |
| 22 | | | | | 5.0 | 17 | 322 | 3.3 | -2.4 | 1.5 | 2 | C |
| 23 | | | | | 5.7 | 6 | 304 | 2.3 | -3.3 | 0.7 | 4 | C |
| 24 | | | | | 6.7 | 18 | 320 | 4.6 | -3.7 | 2.4 | 2 | C |

NOV. 8, 1982 312

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 6.1 | -2 | 296 | 2.1 | -4.2 | 0.3 | 4 | C |
| 2 | | | | | 6.2 | 14 | 313 | 4.0 | -4.0 | 2.1 | 1 | C |
| 3 | | | | | 5.8 | 19 | 322 | 4.2 | -2.9 | 2.4 | 1 | C |
| 4 | | | | | 6.1 | -22 | 241 | -2.4 | -4.7 | -0.9 | 3 | C |
| 5 | | | | | 5.8 | -58 | 248 | -1.1 | -4.0 | -3.7 | 1 | C |
| 6 | | | | | 5.4 | -29 | 255 | -1.2 | -4.8 | -0.7 | 2 | C |
| 7 | | | | | 3.3 | -19 | 282 | 0.4 | -1.9 | 0.1 | 3 | C |
| 8 | | | | | 6.6 | 21 | 308 | 3.0 | -2.7 | 3.4 | 4 | C |
| 9 | | | | | 10.9 | -4 | 282 | 1.9 | -8.2 | 3.6 | 5 | C |
| 10 | | | | | 9.6 | 2 | 272 | 0.2 | -5.6 | 3.3 | 7 | C |
| 11 | | | | | 9.7 | 4 | 284 | 2.1 | -7.2 | 4.6 | 4 | C |
| 12 | | | | | 10.1 | -2 | 298 | 4.5 | -7.6 | 3.6 | 3 | C |
| 13 | | | | | 11.0 | -2 | 306 | 5.7 | -7.2 | 3.2 | 5 | C |
| 14 | | | | | 14.2 | -2 | 319 | 10.5 | -8.4 | 3.4 | 3 | C |
| 15 | | | | | 15.6 | 13 | 301 | 7.3 | -10.0 | 7.7 | 5 | C |
| 16 | | | | | 15.0 | 33 | 304 | 6.9 | -7.0 | 11.1 | 1 | C |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 9.9 | -34 | 236 | -3.2 | -5.5 | -2.7 | 4 | C |
| 19 | | | | | 14.2 | 44 | 55 | 5.6 | 9.5 | 7.6 | 5 | C |
| 20 | | | | | 16.6 | 59 | 16 | 8.1 | 4.3 | 13.7 | 2 | C |
| 21 | | | | | 15.1 | 66 | 9 | 6.1 | 2.5 | 13.5 | 1 | C |
| 22 | | | | | 14.2 | 64 | 339 | 5.8 | -1.1 | 12.8 | 1 | C |
| 23 | | | | | 14.4 | 71 | 347 | 4.4 | 0.1 | 13.3 | 3 | C |
| 24 | | | | | 14.7 | 71 | 343 | 4.2 | -0.2 | 12.6 | 6 | C |

NOV. 9, 1982 313

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 15.4 | 52 | 37 | 7.4 | 6.9 | 11.3 | 2 | C |
| 2 | | | | | 13.8 | 33 | 45 | 8.2 | 9.0 | 6.2 | 2 | C |
| 3 | | | | | 15.0 | 13 | 49 | 9.4 | 11.3 | 1.3 | 2 | C |
| 4 | | | | | 14.5 | 39 | 56 | 6.3 | 11.1 | 6.7 | 2 | C |
| 5 | | | | | 14.5 | 50 | 65 | 3.9 | 11.3 | 8.2 | 1 | C |
| 6 | | | | | 14.8 | 59 | 60 | 3.8 | 10.5 | 9.4 | 2 | C |
| 7 | | | | | 14.4 | 76 | 34 | 2.9 | 7.2 | 12.0 | 2 | C |
| 8 | | | | | 12.5 | 79 | 321 | 1.9 | 3.8 | 11.4 | 2 | C |
| 9 | | | | | 11.6 | 72 | 43 | 2.6 | 7.1 | 8.6 | 1 | C |
| 10 | | | | | 11.7 | 81 | 2 | 1.8 | 5.5 | 10.1 | 1 | C |
| 11 | | | | | 11.1 | 88 | 50 | 0.3 | 5.5 | 9.5 | 1 | C |
| 12 | | | | | 11.3 | 86 | 37 | 0.6 | 5.6 | 9.7 | 1 | C |
| 13 | | | | | 11.6 | 82 | 347 | 1.5 | 4.7 | 10.3 | 1 | C |
| 14 | | | | | 11.2 | 75 | 229 | -1.7 | 2.3 | 10.0 | 4 | C |
| 15 | | | | | 11.0 | 50 | 224 | -5.1 | -1.4 | 9.6 | 1 | C |
| 16 | | | | | 10.4 | 47 | 205 | -6.2 | -0.4 | 7.9 | 2 | C |
| 17 | | | | | 10.3 | 61 | 200 | -4.3 | 0.7 | 8.2 | 4 | C |
| 18 | | | | | 9.1 | 61 | 222 | -3.1 | -1.0 | 8.3 | 1 | C |
| 19 | | | | | 9.2 | 62 | 191 | -4.0 | 0.6 | 7.7 | 3 | J |
| 20 | | | | | 8.7 | 84 | 30 | 0.7 | 1.5 | 7.7 | 3 | J |
| 21 | | | | | 9.5 | 58 | 325 | 3.5 | -1.7 | 7.1 | 5 | J |
| 22 | | | | | 10.2 | 63 | 293 | 1.7 | -3.3 | 9.0 | 3 | J |
| 23 | | | | | 11.6 | 23 | 321 | 6.6 | -5.1 | 4.1 | 6 | C |
| 24 | | | | | | | | | | | | |

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11/10/82 – 11/17/82

NOV. 10, 1982 314

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 10.3 | 21 | 333 | 7.1 | -3.3 | 3.4 | 6 | J |
| 2 | | | | | 9.5 | 8 | 296 | 3.4 | -6.7 | 2.0 | 5 | J |
| 3 | | | | | 9.9 | 46 | 280 | 1.0 | -4.7 | 7.1 | 4 | C |
| 4 | | | | | 10.3 | 50 | 319 | 4.5 | -2.2 | 7.8 | 4 | J |
| 5 | | | | | 9.6 | 40 | 314 | 3.5 | -2.3 | 5.1 | 6 | C |
| 6 | | | | | 6.9 | 34 | 50 | 2.7 | 4.0 | 1.5 | 4 | C |
| 7 | 526 | 6.1 | 330 | J | 9.7 | 52 | 77 | 1.3 | 7.9 | 4.5 | 3 | J |
| 8 | 498 | 7.1 | 338 | J | 9.5 | 45 | 50 | 4.1 | 7.2 | 3.7 | 3 | J |
| 9 | | | | | 9.6 | 44 | 83 | 0.9 | 8.8 | 2.7 | 2 | C |
| 10 | 499 | 7.1 | 240 | J | 9.8 | 40 | 46 | 4.9 | 7.3 | 2.9 | 3 | J |
| 11 | 501 | 7.4 | 283 | J | 10.4 | 36 | 17 | 8.0 | 5.0 | 4.2 | 1 | J |
| 12 | | | | | 10.6 | 45 | 64 | 3.1 | 9.2 | 3.4 | 2 | C |
| 13 | | | | | 10.1 | 9 | 56 | 3.3 | 4.9 | -1.3 | 8 | C |
| 14 | | | | | 10.7 | -4 | 357 | 10.6 | -0.8 | -0.5 | 0 | C |
| 15 | | | | | 12.0 | -26 | 331 | 9.4 | -6.7 | -2.9 | 1 | C |
| 16 | | | | | 12.3 | -23 | 318 | 8.0 | -8.4 | -1.9 | 3 | C |
| 17 | 480 | 7.6 | 182 | J | 12.7 | -23 | 325 | 9.2 | -7.5 | -2.8 | 4 | J |
| 18 | 469 | 9.1 | 141 | J | 12.4 | -19 | 322 | 8.9 | -7.7 | -2.3 | 3 | J |
| 19 | 426 | 11.0 | 103 | J | 10.7 | -15 | 351 | 9.3 | -1.9 | -2.2 | 4 | J |
| 20 | 419 | 12.0 | 85 | J | 11.4 | -8 | 354 | 10.3 | -1.3 | -1.3 | 4 | J |
| 21 | 427 | 14.0 | 171 | J | 11.1 | -24 | 332 | 8.3 | -4.8 | -3.7 | 4 | J |
| 22 | 461 | 10.3 | 116 | J | 12.7 | -22 | 317 | 8.0 | -7.8 | -3.8 | 5 | J |
| 23 | 526 | 7.1 | 223 | J | 13.2 | -29 | 303 | 6.1 | -9.8 | -5.5 | 3 | J |
| 24 | 519 | 6.0 | 121 | J | 12.9 | -5 | 319 | 9.1 | -8.0 | -0.5 | 4 | J |

NOV. 11, 1982 315

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 543 | 6.1 | 102 | J | 11.8 | 10 | 322 | 8.4 | -6.3 | 2.5 | 5 | J |
| 2 | 601 | 6.6 | 685 | J | 13.6 | -34 | 303 | 6.0 | -10.0 | -6.1 | 3 | J |
| 3 | 576 | 5.3 | 179 | J | 12.9 | -38 | 307 | 5.5 | -8.4 | -5.8 | 6 | J |
| 4 | 525 | 6.2 | 121 | J | 13.8 | -20 | 315 | 8.5 | -9.3 | -2.4 | 5 | J |
| 5 | 550 | 13.5 | 278 | J | 11.9 | 16 | 307 | 6.7 | -7.6 | 5.5 | 3 | J |
| 6 | 517 | 15.7 | 94 | J | 11.6 | -9 | 311 | 6.7 | -7.8 | 1.1 | 5 | J |
| 7 | 519 | 16.9 | 81 | J | 11.5 | 0 | 290 | 3.4 | -8.6 | 3.6 | 6 | J |
| 8 | | | | | 11.3 | -3 | 324 | 9.0 | -6.1 | 2.2 | 2 | J |
| 9 | 542 | 13.9 | 145 | J | 10.3 | 17 | 291 | 3.2 | -6.1 | 6.1 | 4 | J |
| 10 | 526 | 23.3 | 97 | J | 10.9 | -49 | 298 | 3.1 | -8.6 | -4.0 | 4 | J |
| 11 | 519 | 22.6 | 102 | J | 10.9 | -55 | 326 | 4.4 | -6.1 | -5.3 | 6 | J |
| 12 | | | | | 9.2 | -34 | 316 | 4.8 | -6.2 | -1.9 | 4 | C |
| 13 | | | | | 7.8 | -7 | 319 | 4.3 | -3.6 | 1.0 | 4 | C |
| 14 | | | | | 8.0 | 31 | 330 | 5.3 | -1.3 | 4.5 | 3 | C |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 9.3 | 11 | 296 | 3.4 | -6.1 | 3.7 | 4 | C |
| 17 | | | | | 9.5 | -18 | 310 | 5.5 | -7.1 | -1.0 | 0 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 8.4 | -28 | 301 | 3.6 | -6.2 | -3.1 | 2 | C |
| 22 | | | | | 9.0 | -12 | 321 | 6.4 | -5.4 | -1.4 | 2 | C |
| 23 | [illegible] | 27.9 | 148 | J | 8.5 | -5 | 316 | 5.6 | -5.4 | -0.3 | 3 | J |
| 24 | 534 | 22.0 | 86 | J | 8.6 | 7 | 305 | 4.6 | -6.4 | 1.4 | 3 | J |

NOV. 12, 1982 316

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 8.4 | -14 | 324 | 6.2 | -4.6 | -1.4 | 1 | C |
| 2 | 583 | 18.9 | 94 | J | 8.4 | -8 | 301 | 3.8 | -6.4 | -0.3 | 4 | J |
| 3 | 570 | 21.6 | 87 | J | 8.7 | -14 | 320 | 6.2 | -5.4 | -1.1 | 3 | J |
| 4 | 577 | 19.4 | 88 | J | 8.6 | 19 | 313 | 4.7 | -4.4 | 3.4 | 4 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | 7.8 | 24 | 287 | 1.4 | -3.5 | 3.4 | 5 | C |
| 7 | | | | | 7.7 | 39 | 296 | 1.9 | -2.2 | 4.7 | 4 | C |
| 8 | | | | | 7.0 | -45 | 334 | 4.0 | -3.6 | -3.2 | 1 | C |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 7.0 | -4 | 320 | 5.1 | -4.0 | 1.5 | 1 | C |
| 13 | 557 | 12.8 | 60 | J | 6.6 | -17 | 316 | 3.1 | -3.3 | 0.1 | 5 | J |
| 14 | 551 | 13.0 | 58 | J | 7.0 | 21 | 302 | 2.8 | -3.3 | 3.7 | 4 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 6.8 | -5 | 295 | 2.6 | -5.3 | 1.2 | 2 | C |
| 17 | 596 | 12.8 | 96 | J | 7.1 | -19 | 316 | 3.3 | -3.5 | -0.7 | 5 | J |
| 18 | | | | | 7.3 | 49 | 318 | 3.1 | -1.7 | 5.3 | 3 | J |
| 19 | | | | | 7.3 | 10 | 331 | 5.6 | -2.9 | 1.7 | 2 | C |
| 20 | | | | | 7.5 | 58 | 317 | 2.8 | -1.8 | 6.4 | 0 | C |
| 21 | | | | | 6.8 | 35 | 283 | 1.0 | -4.0 | 3.4 | 3 | C |
| 22 | | | | | 6.8 | -25 | 284 | 1.2 | -4.8 | -1.9 | 3 | C |
| 23 | | | | | 6.8 | 8 | 322 | 4.0 | -3.1 | 0.9 | 4 | C |
| 24 | | | | | 6.9 | -16 | 340 | 5.3 | -2.0 | -1.5 | 0 | C |

NOV. 13, 1982 317

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 612 | 15.3 | 119 | J | 7.1 | -78 | 295 | 0.6 | -1.7 | -6.1 | 3 | J |
| 2 | 556 | 9.9 | 97 | J | 6.6 | -24 | 293 | 2.0 | -4.9 | -1.7 | 4 | J |
| 3 | 551 | 15.6 | 86 | J | 6.8 | -47 | 281 | 0.7 | -4.1 | -3.3 | 4 | J |
| 4 | 564 | 12.4 | 151 | J | 6.5 | -33 | 317 | 2.6 | -2.9 | -1.8 | 5 | J |
| 5 | | | | | 6.5 | -21 | 347 | 5.7 | -1.9 | -1.8 | 2 | J |
| 6 | | | | | 6.8 | 20 | 316 | 3.9 | -2.9 | 3.1 | 3 | C |
| 7 | 525 | 12.1 | 59 | J | 6.6 | 40 | 335 | 4.2 | -0.4 | 4.3 | 3 | J |
| 8 | 544 | 13.7 | 134 | J | 6.1 | 16 | 333 | 3.9 | -1.3 | 2.0 | 4 | J |
| 9 | 520 | 16.5 | 59 | J | 6.7 | -27 | 343 | 4.2 | -2.1 | -1.4 | 4 | J |
| 10 | | | | | 6.3 | -16 | 323 | 3.8 | -3.2 | 0.1 | 4 | J |
| 11 | | | | | 6.5 | -24 | 16 | 4.1 | 0.2 | -2.2 | 4 | C |
| 12 | | | | | 6.1 | 14 | 353 | 4.4 | 0.0 | 1.2 | 3 | C |
| 13 | | | | | 6.6 | 45 | 288 | 1.0 | -1.4 | 4.5 | 3 | C |
| 14 | | | | | 7.4 | 68 | 311 | 1.7 | 0.7 | 6.7 | 1 | C |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 7.6 | 0 | 305 | 3.6 | -5.0 | 1.6 | 3 | C |
| 17 | | | | | 7.4 | 26 | 282 | 1.1 | -4.4 | 3.9 | 4 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 7.5 | -5 | 311 | 4.2 | -4.8 | -0.0 | 3 | C |
| 21 | | | | | 7.4 | 47 | 276 | 0.4 | -3.9 | 5.0 | 3 | C |
| 22 | | | | | 7.5 | 30 | 266 | -0.3 | -5.2 | 3.4 | 4 | C |
| 23 | 520 | 14.6 | 64 | J | 6.8 | -2 | 316 | 4.5 | -4.3 | 0.0 | 3 | J |
| 24 | 561 | 14.8 | 187 | J | 6.5 | 27 | 286 | 1.1 | -3.6 | 2.2 | 5 | J |

NOV. 14, 1982 318

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 512 | 16.9 | 55 | J | 6.3 | -1 | 318 | 3.9 | -3.5 | 0.2 | 3 | J |
| 2 | 567 | 18.0 | 101 | J | 6.0 | 44 | 321 | 1.8 | -1.2 | 2.4 | 5 | J |
| 3 | 488 | 16.6 | 61 | J | 6.2 | 2 | 350 | 5.3 | -0.9 | 0.3 | 3 | J |
| 4 | 541 | 16.7 | 84 | J | 6.7 | 13 | 308 | 3.1 | -3.6 | 1.9 | 4 | J |
| 5 | 533 | 12.0 | 148 | J | 7.1 | 14 | 312 | 4.0 | -3.9 | 2.6 | 3 | J |
| 6 | | | | | 7.3 | -6 | 306 | 4.1 | -5.6 | 1.1 | 2 | J |
| 7 | 517 | 13.1 | 75 | J | 7.1 | -12 | 331 | 5.0 | -3.1 | -0.1 | 4 | J |
| 8 | 499 | 15.3 | 47 | J | 7.5 | -11 | 340 | 6.3 | -2.6 | -0.2 | 3 | J |
| 9 | 497 | 16.6 | 52 | J | 8.2 | -30 | 344 | 6.6 | -3.4 | -2.7 | 2 | J |
| 10 | 501 | 14.0 | 85 | J | 10.1 | -9 | 344 | 8.1 | -2.7 | -0.1 | 5 | J |
| 11 | 491 | 14.1 | 52 | J | 11.2 | -10 | 345 | 7.9 | -2.5 | -0.3 | 7 | J |
| 12 | | | | | 11.4 | 7 | 317 | 5.5 | -4.2 | 3.1 | 8 | J |
| 13 | 530 | 16.9 | 110 | J | 11.1 | -33 | 359 | 7.7 | -2.2 | -4.5 | 6 | J |
| 14 | | | | | 11.1 | 2 | 316 | 7.1 | -6.2 | 3.0 | 3 | C |
| 15 | | | | | 11.1 | -16 | 337 | 9.3 | -4.8 | -1.3 | 3 | C |
| 16 | | | | | 10.3 | -10 | 326 | 6.9 | -4.9 | 0.1 | 6 | C |
| 17 | | | | | 9.5 | 6 | 308 | 5.2 | -6.2 | 2.5 | 3 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | 9.7 | 1 | 311 | 6.3 | -7.1 | 1.2 | 1 | C |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 8.9 | 10 | 290 | 2.9 | -7.7 | 2.1 | 2 | C |
| 22 | | | | | 8.4 | 11 | 311 | 5.3 | -6.1 | 1.9 | 1 | C |
| 23 | | | | | 8.1 | 3 | 314 | 5.4 | -5.6 | 0.7 | 1 | C |
| 24 | 480 | 4.0 | 86 | J | 8.0 | 8 | 0 | 7.4 | 0.1 | 1.0 | 3 | J |

NOV. 15, 1982 319

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 525 | 6.2 | 115 | J | 8.8 | 15 | 333 | 7.0 | -3.4 | 2.3 | 4 | J |
| 2 | 531 | 4.7 | 78 | J | 8.8 | 2 | 288 | 2.6 | -8.0 | 1.1 | 2 | J |
| 3 | | | | | 8.6 | 5 | 283 | 1.9 | -8.0 | 2.0 | 1 | J |
| 4 | | | | | 8.2 | 7 | 342 | 7.2 | -2.1 | 1.4 | 3 | J |
| 5 | | | | | 8.3 | 18 | 352 | 7.4 | -0.4 | 2.6 | 3 | J |
| 6 | | | | | 8.3 | 44 | 20 | 5.5 | 3.7 | 4.7 | 2 | J |
| 7 | 512 | 7.1 | 61 | J | 7.8 | 26 | 360 | 6.7 | 1.2 | 3.1 | 2 | J |
| 8 | 526 | 5.7 | 60 | J | 7.0 | -27 | 317 | 4.0 | -4.5 | -1.0 | 3 | J |
| 9 | 568 | 4.1 | 113 | J | 6.8 | -13 | 306 | 2.7 | -3.9 | 0.7 | 5 | J |
| 10 | 513 | 5.2 | 211 | J | 7.0 | -21 | 16 | 4.8 | 0.4 | -2.4 | 4 | J |
| 11 | | | | | 7.6 | 0 | 66 | 3.0 | 6.0 | -3.0 | 2 | J |
| 12 | 517 | 8.1 | 164 | J | 7.0 | -7 | 263 | -0.8 | -6.4 | 2.2 | 2 | J |
| 13 | 509 | 5.4 | 116 | J | 6.7 | -1 | 320 | 3.4 | -2.6 | 1.1 | 5 | J |
| 14 | 496 | 6.1 | 91 | J | 7.0 | -7 | 349 | 6.4 | -1.5 | -0.3 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 545 | 8.7 | 83 | J | 6.6 | -15 | 286 | 1.0 | -3.8 | -0.1 | 5 | J |
| 18 | 541 | 6.0 | 51 | J | 6.7 | 66 | 273 | 0.1 | -1.5 | 6.4 | 1 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 7.3 | -33 | 325 | 4.9 | -3.8 | -3.5 | 2 | J |
| 21 | 500 | 4.9 | 98 | J | 6.8 | -25 | 312 | 3.0 | -3.5 | -1.9 | 5 | J |
| 22 | 521 | 5.8 | 143 | J | 6.5 | -19 | 301 | 2.8 | -4.7 | -1.6 | 3 | J |
| 23 | 516 | 6.6 | 84 | J | 6.6 | -27 | 336 | 5.3 | -2.5 | -2.8 | 1 | J |
| 24 | 469 | 5.4 | 134 | J | 5.8 | 5 | 359 | 5.4 | -0.1 | 0.5 | 2 | J |

NOV. 16, 1982 320

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 491 | 7.2 | 105 | J | 6.4 | 12 | 1 | 5.8 | 0.2 | 1.2 | 2 | J |
| 2 | | | | | | | | | | | | |
| 3 | 526 | 7.5 | 47 | J | 6.3 | 16 | 331 | 4.5 | -2.2 | 1.8 | 3 | J |
| 4 | 476 | 8.4 | 212 | J | 6.3 | 23 | 347 | 5.0 | -0.7 | 2.4 | 3 | J |
| 5 | 505 | 5.0 | 123 | J | 5.8 | -9 | 1 | 4.5 | -0.1 | -0.7 | 4 | J |
| 6 | 470 | 4.4 | 50 | J | 6.0 | -9 | 350 | 5.3 | -1.2 | -0.5 | 2 | J |
| 7 | 482 | 5.0 | 88 | J | 6.1 | 43 | 313 | 2.8 | -1.4 | 4.7 | 2 | J |
| 8 | 498 | 4.7 | 101 | J | 5.9 | 2 | 314 | 3.5 | -3.3 | 1.6 | 3 | J |
| 9 | 515 | 5.1 | 100 | J | 5.7 | 8 | 299 | 1.8 | -2.7 | 1.9 | 4 | J |
| 10 | 491 | 4.5 | 75 | J | 5.5 | 8 | 353 | 4.1 | -0.2 | 0.7 | 4 | J |
| 11 | 495 | 4.8 | 100 | J | 5.8 | 2 | 296 | 2.4 | -4.3 | 2.3 | 2 | J |
| 12 | 507 | 5.1 | 70 | J | 5.8 | 9 | 277 | 0.6 | -4.3 | 3.0 | 2 | J |
| 13 | 455 | 4.2 | 56 | J | 5.6 | 26 | 341 | 4.2 | -0.4 | 2.5 | 3 | J |
| 14 | | | | | 5.6 | -15 | 326 | 3.8 | -2.8 | -0.2 | 3 | C |
| 15 | | | | | 5.8 | 21 | 5 | 5.3 | 1.1 | 1.8 | 1 | C |
| 16 | | | | | 5.7 | 18 | 347 | 5.0 | -0.6 | 1.9 | 1 | C |
| 17 | | | | | 5.8 | 5 | 359 | 5.5 | 0.0 | 0.5 | 1 | C |
| 18 | | | | | 5.9 | 3 | 345 | 5.6 | -1.4 | 0.5 | 1 | C |
| 19 | | | | | 6.4 | 12 | 4 | 6.0 | 0.6 | 1.2 | 2 | C |
| 20 | 427 | 4.1 | 92 | J | 6.3 | 3 | 354 | 6.0 | -0.6 | 0.4 | 2 | J |
| 21 | 422 | 3.3 | 43 | J | 6.1 | -5 | 2 | 5.8 | 0.2 | -0.5 | 1 | J |
| 22 | 424 | 3.8 | 39 | J | 6.8 | -1 | 352 | 6.4 | -0.9 | -0.1 | 2 | J |
| 23 | 419 | 3.9 | 41 | J | 7.0 | 6 | 344 | 6.2 | -1.8 | 0.7 | 3 | J |
| 24 | 450 | 6.0 | 126 | J | 7.1 | 30 | 4 | 6.0 | 0.6 | 3.4 | 2 | J |

NOV. 17, 1982 321

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 6.8 | 30 | 276 | 0.6 | -5.3 | 3.5 | 2 | C |
| 2 | 466 | 9.1 | 46 | J | 6.8 | 33 | 282 | 1.1 | -4.7 | 3.8 | 3 | J |
| 3 | 477 | 6.4 | 46 | J | 6.8 | 42 | 274 | 0.3 | -4.1 | 4.9 | 2 | J |
| 4 | | | | | 6.7 | 31 | 358 | 5.6 | 0.5 | 3.4 | 1 | C |
| 5 | | | | | 6.4 | 28 | 346 | 5.3 | -0.5 | 3.1 | 1 | C |
| 6 | 442 | 7.2 | 105 | J | 6.5 | 28 | 336 | 4.7 | -1.2 | 3.2 | 3 | J |
| 7 | 428 | 4.6 | 37 | J | 6.9 | 24 | 358 | 5.9 | 0.7 | 2.5 | 2 | J |
| 8 | 424 | 6.0 | 47 | J | 7.5 | 19 | 334 | 5.9 | -1.8 | 3.2 | 3 | J |
| 9 | 433 | 7.1 | 77 | J | 7.4 | 8 | 297 | 3.2 | -5.3 | 3.5 | 2 | J |
| 10 | 426 | 7.1 | 35 | J | 8.0 | 5 | 267 | -0.4 | -6.5 | 3.9 | 3 | J |
| 11 | 416 | 8.4 | 37 | J | 7.5 | 2 | 302 | 3.8 | -5.3 | 2.9 | 2 | J |
| 12 | 429 | 7.9 | 90 | J | 7.0 | 2 | 295 | 2.8 | -5.4 | 2.8 | 2 | J |
| 13 | | | | | 7.2 | 12 | 287 | 1.8 | -4.9 | 3.6 | 3 | J |
| 14 | 429 | 6.4 | 26 | J | 8.0 | 14 | 277 | 0.9 | -6.2 | 4.5 | 2 | J |
| 15 | | | | | 8.3 | 20 | 274 | 0.5 | -6.2 | 5.1 | 2 | J |
| 16 | | | | | 8.2 | -28 | 248 | -2.5 | -6.8 | -1.6 | 3 | C |
| 17 | | | | | 7.5 | 16 | 279 | 0.9 | -5.4 | 3.1 | 4 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 436 | 18.3 | 27 | J | 8.9 | -33 | 242 | -3.2 | -6.4 | -3.8 | 4 | J |
| 21 | 414 | 18.3 | 26 | J | 9.5 | -19 | 243 | -3.7 | -7.5 | -2.4 | 3 | J |
| 22 | 427 | 15.6 | 27 | J | 9.9 | -22 | 244 | -3.9 | -8.0 | -3.2 | 2 | J |
| 23 | 405 | 22.6 | 121 | J | 9.8 | -1 | 265 | -0.8 | -9.3 | 0.2 | 3 | C |
| 24 | 414 | 24.0 | 48 | J | 10.8 | -14 | 255 | -2.5 | -9.4 | -2.1 | 4 | J |

# 11/18/82 – 11/25/82

NOV. 18, 1982 322

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 16.4 | 26 | J | 12.1 | -18 | 252 | -3.4 | -10.5 | -3.0 | 3 | J |
| 2 | 332 | 14.0 | 128 | J | 11.1 | -12 | 261 | -1.6 | -10.7 | -1.5 | 2 | C |
| 3 | 360 | 19.9 | 379 | J | 10.8 | -12 | 267 | -0.5 | -10.3 | -0.8 | 3 | C |
| 4 | | | | | | | | | | | | |
| 5 | | | | | 10.3 | 54 | 72 | 1.7 | 6.8 | 6.0 | 4 | C |
| 6 | 332 | 16.6 | 181 | J | 11.0 | 61 | 306 | 3.0 | -1.2 | 10.1 | 2 | C |
| 7 | 348 | 9.8 | 159 | J | 10.3 | 16 | 270 | -0.0 | -6.9 | 5.1 | 5 | C |
| 8 | 318 | 7.5 | 93 | J | 9.1 | -29 | 250 | -2.6 | -8.5 | -1.1 | 1 | C |
| 9 | 377 | 18.5 | 447 | J | 8.9 | -20 | 283 | 1.8 | -8.0 | 0.6 | 3 | C |
| 10 | 434 | 8.7 | 242 | J | 8.9 | -8 | 276 | 0.7 | -6.6 | 2.1 | 5 | C |
| 11 | 378 | 6.6 | 155 | J | 8.6 | -5 | 245 | -3.4 | -7.0 | 2.6 | 2 | C |
| 12 | 325 | 4.3 | 121 | J | 7.9 | -28 | 302 | 3.0 | -5.6 | -0.7 | 4 | C |
| 13 | 325 | 7.6 | 76 | J | 8.7 | -54 | 10 | 4.9 | -1.9 | -6.5 | 2 | C |
| 14 | 368 | 7.3 | 240 | J | 8.1 | -40 | 35 | 5.0 | 1.3 | -6.0 | 2 | C |
| 15 | | | | | 8.1 | -24 | 54 | 4.2 | 4.4 | -5.0 | 1 | C |
| 16 | 348 | 7.1 | 542 | J | 7.0 | 9 | 51 | 4.1 | 5.2 | -0.4 | 2 | C |
| 17 | | | | | 7.1 | 42 | 74 | 1.3 | 5.4 | 3.1 | 3 | C |
| 18 | | | | | 6.8 | 63 | 110 | -1.0 | 3.7 | 5.1 | 2 | C |
| 19 | | | | | 5.6 | 13 | 112 | -1.9 | 4.8 | 0.6 | 2 | C |
| 20 | | | | | 5.2 | -8 | 123 | -2.7 | 4.0 | -1.0 | 1 | C |
| 21 | | | | | 4.0 | -9 | 134 | -2.7 | 2.8 | -0.8 | 0 | C |
| 22 | | | | | 4.0 | -25 | 116 | -1.3 | 2.7 | -1.5 | 2 | C |
| 23 | | | | | 4.1 | -7 | 131 | -2.3 | 2.6 | -0.5 | 2 | C |
| 24 | | | | | 3.2 | -17 | 322 | 0.5 | -0.4 | -0.2 | 3 | C |

NOV. 19, 1982 323

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 3.9 | -21 | 335 | 1.7 | -0.8 | -0.7 | 3 | C |
| 2 | | | | | 5.8 | -38 | 339 | 4.2 | -1.8 | -3.3 | 1 | C |
| 3 | | | | | 5.8 | -15 | 336 | 4.8 | -2.3 | -1.2 | 2 | C |
| 4 | | | | | 6.0 | -26 | 314 | 3.6 | -4.1 | -1.8 | 1 | C |
| 5 | | | | | 6.4 | 13 | 315 | 4.2 | -3.7 | 2.3 | 2 | C |
| 6 | | | | | 6.5 | 22 | 320 | 4.5 | -2.9 | 3.4 | 1 | C |
| 7 | | | | | 6.4 | 21 | 319 | 4.5 | -2.9 | 3.4 | 1 | C |
| 8 | | | | | 6.4 | 22 | 322 | 4.2 | -2.2 | 3.3 | 2 | C |
| 9 | | | | | 6.2 | -12 | 307 | 3.4 | -4.7 | 0.8 | 2 | C |
| 10 | | | | | 6.1 | -22 | 310 | 3.4 | -4.6 | -0.2 | 2 | C |
| 11 | | | | | 6.1 | -17 | 314 | 3.9 | -4.3 | 0.2 | 2 | C |
| 12 | | | | | 6.2 | -12 | 315 | 4.0 | -4.2 | 0.6 | 2 | C |
| 13 | | | | | 6.5 | -22 | 319 | 4.4 | -4.5 | -0.6 | 1 | C |
| 14 | | | | | 6.6 | -24 | 321 | 4.6 | -4.5 | -1.1 | 0 | C |
| 15 | | | | | 5.5 | -44 | 317 | 2.6 | -3.4 | -2.5 | 2 | C |
| 16 | | | | | 6.0 | -60 | 172 | -2.7 | -0.9 | -4.6 | 2 | C |
| 17 | | | | | 5.4 | -60 | 154 | -2.1 | 0.1 | -4.2 | 2 | C |
| 18 | | | | | 5.0 | -48 | 292 | 0.5 | -1.6 | -1.3 | 4 | C |
| 19 | | | | | 4.9 | -23 | 309 | 1.9 | -2.4 | -1.0 | 3 | C |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 6.5 | -10 | 154 | -5.7 | 2.7 | -1.2 | 0 | C |
| 22 | | | | | 6.6 | -2 | 147 | -5.1 | 3.4 | -0.3 | 3 | C |
| 23 | | | | | 7.5 | 18 | 139 | -5.2 | 4.6 | 2.2 | 1 | C |
| 24 | | | | | 7.7 | 18 | 139 | -5.4 | 4.8 | 2.3 | 1 | C |

NOV. 20, 1982 324

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 8.3 | 20 | 150 | -6.5 | 3.8 | 2.5 | 1 | C |
| 2 | | | | | 8.3 | 17 | 161 | -7.5 | 2.7 | 2.2 | 0 | C |
| 3 | | | | | 7.8 | 10 | 182 | -7.6 | -0.1 | 1.4 | 1 | C |
| 4 | | | | | 7.8 | 12 | 185 | -7.6 | -0.4 | 1.7 | 0 | C |
| 5 | | | | | 7.7 | 3 | 182 | -7.7 | -0.1 | 0.4 | 0 | C |
| 6 | | | | | 7.6 | 1 | 177 | -7.6 | 0.4 | -0.0 | 0 | C |
| 7 | | | | | 7.4 | -5 | 187 | -7.3 | -1.1 | -0.3 | 1 | C |
| 8 | | | | | 7.2 | -5 | 175 | -7.1 | 0.3 | -0.8 | 1 | C |
| 9 | | | | | 6.9 | -12 | 169 | -6.5 | 0.6 | -1.8 | 1 | C |
| 10 | | | | | 6.8 | -15 | 157 | -6.0 | 1.6 | -2.6 | 1 | C |
| 11 | | | | | 6.6 | -18 | 181 | -5.8 | -0.9 | -1.7 | 2 | C |
| 12 | | | | | 6.3 | -6 | 171 | -5.7 | 0.6 | -0.9 | 2 | C |
| 13 | | | | | 5.8 | 3 | 137 | -4.1 | 3.7 | -1.2 | 1 | C |
| 14 | | | | | 5.6 | -18 | 176 | -5.1 | -0.3 | -1.7 | 1 | C |
| 15 | | | | | 5.8 | 5 | 163 | -5.5 | 1.8 | -0.1 | 1 | C |
| 16 | | | | | 5.8 | 26 | 139 | -3.8 | 3.9 | 1.4 | 1 | C |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 9.9 | -5 | 112 | -3.6 | 8.6 | -1.1 | 1 | C |
| 22 | | | | | 10.2 | -11 | 109 | -2.4 | 6.7 | -1.5 | 6 | C |
| 23 | | | | | 10.6 | -40 | 130 | -4.9 | 5.8 | -6.3 | 4 | C |
| 24 | | | | | 10.4 | 13 | 43 | 6.8 | 6.3 | 2.0 | 4 | C |

NOV. 21, 1982 325

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 10.7 | -5 | 58 | 5.4 | 8.7 | -1.1 | 3 | C |
| 2 | | | | | 11.4 | -39 | 124 | -4.0 | 5.4 | -6.0 | 6 | C |
| 3 | | | | | 11.3 | -27 | 128 | -6.1 | 7.3 | -6.0 | 1 | C |
| 4 | | | | | 11.3 | -28 | 125 | -5.6 | 7.1 | -6.5 | 1 | C |
| 5 | | | | | 9.8 | -22 | 117 | -4.1 | 7.0 | -5.4 | 1 | C |
| 6 | | | | | 8.4 | -18 | 108 | -2.4 | 6.5 | -4.5 | 2 | C |
| 7 | | | | | 3.5 | -16 | 97 | -0.4 | 2.6 | -1.9 | 2 | C |
| 8 | | | | | | | | | | | | |
| 9 | | | | | 5.9 | 23 | 92 | -0.2 | 5.3 | -0.1 | 2 | C |
| 10 | | | | | 8.6 | -12 | 104 | -2.0 | 6.6 | -5.0 | 2 | C |
| 11 | | | | | 10.1 | -3 | 103 | -2.3 | 8.6 | -4.5 | 1 | C |
| 12 | | | | | 8.0 | -7 | 121 | -3.9 | 5.6 | -3.5 | 2 | C |
| 13 | | | | | 8.7 | -34 | 139 | -5.0 | 2.3 | -5.9 | 3 | C |
| 14 | | | | | 8.1 | -81 | 81 | 0.1 | -0.6 | -3.0 | 7 | C |
| 15 | | | | | 10.8 | 18 | 111 | -3.4 | 9.5 | 0.1 | 3 | C |
| 16 | | | | | 12.5 | 10 | 113 | -4.8 | 11.4 | -0.9 | 1 | C |
| 17 | | | | | 13.9 | -6 | 117 | -5.7 | 10.7 | -3.6 | 6 | C |
| 18 | | | | | 15.5 | -51 | 160 | -9.1 | 1.4 | -12.3 | 1 | C |
| 19 | | | | | 17.1 | -47 | 148 | -9.8 | 4.8 | -13.1 | 1 | C |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 16.6 | -50 | 146 | -8.8 | 5.5 | -12.9 | 1 | C |
| 22 | | | | | 15.9 | -49 | 141 | -8.1 | 6.3 | -12.1 | 1 | C |
| 23 | | | | | 14.8 | -51 | 141 | -7.2 | 5.7 | -11.5 | 1 | C |
| 24 | | | | | 13.5 | -58 | 183 | -7.0 | -0.4 | -11.4 | 2 | C |

NOV. 22, 1982 326

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 11.3 | -49 | 168 | -7.1 | 1.3 | -8.3 | 3 | C |
| 2 | | | | | 7.1 | -55 | 174 | -3.7 | 0.1 | -5.5 | 2 | C |
| 3 | | | | | 6.7 | 23 | 233 | -0.4 | -0.5 | 0.3 | 6 | C |
| 4 | 389 | 23.3 | 32 | J | | | | | | | | |
| 5 | 376 | 25.6 | 23 | J | 13.3 | -69 | 31 | 4.0 | -0.3 | -12.5 | 2 | J |
| 6 | 388 | 25.2 | 26 | J | 12.3 | -53 | 337 | 6.6 | -5.4 | -8.4 | 3 | J |
| 7 | 384 | 17.8 | 72 | J | 11.6 | -46 | 327 | 6.6 | -6.7 | -6.3 | 2 | J |
| 8 | 404 | 17.0 | 103 | J | 10.8 | -37 | 314 | 6.0 | -8.2 | -3.8 | 1 | J |
| 9 | 400 | 17.3 | 122 | J | 10.4 | -35 | 310 | 5.4 | -8.3 | -2.9 | 2 | J |
| 10 | 462 | 12.5 | 410 | J | 10.7 | -10 | 329 | 8.4 | -5.3 | 0.5 | 4 | J |
| 11 | | | | | 9.8 | -1 | 319 | 6.6 | -5.3 | 2.2 | 4 | J |
| 12 | 398 | 9.6 | 117 | J | 9.8 | 8 | 291 | 3.3 | -7.4 | 4.6 | 3 | J |
| 13 | | | | | 10.8 | 21 | 300 | 4.8 | -6.3 | 6.7 | 2 | C |
| 14 | | | | | 10.4 | 20 | 294 | 3.8 | -6.8 | 6.2 | 2 | C |
| 15 | | | | | 10.2 | 24 | 294 | 3.5 | -6.3 | 6.0 | 3 | C |
| 16 | | | | | 8.1 | 14 | 339 | 4.8 | -5.4 | 3.4 | 1 | C |
| 17 | | | | | 7.0 | 13 | 335 | 3.9 | -5.0 | 2.6 | 1 | C |
| 18 | | | | | 7.2 | -10 | 331 | 3.5 | -6.0 | -0.2 | 1 | C |
| 19 | | | | | 4.9 | 24 | 332 | 3.0 | -1.4 | 1.6 | 2 | C |
| 20 | 398 | 7.4 | 61 | J | 4.3 | 19 | 302 | 2.0 | -3.0 | 1.5 | 2 | J |
| 21 | 422 | 8.5 | 56 | J | 4.1 | 33 | 264 | -0.3 | -2.8 | 1.9 | 2 | J |
| 22 | 425 | 7.9 | 49 | J | 4.1 | 31 | 282 | 0.7 | -3.3 | 2.0 | 1 | J |
| 23 | 407 | 7.7 | 46 | J | 3.9 | 45 | 269 | -0.0 | -2.4 | 2.4 | 2 | J |
| 24 | 404 | 7.9 | 39 | J | 4.4 | 48 | 272 | 0.1 | -2.8 | 3.1 | 1 | J |

NOV. 23, 1982 327

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 4.7 | 44 | 256 | -0.7 | -2.7 | 2.8 | 2 | C |
| 2 | | | | | 5.0 | 13 | 202 | -4.3 | -1.7 | 1.2 | 1 | C |
| 3 | | | | | 5.0 | 27 | 248 | -1.2 | -2.7 | 1.8 | 3 | C |
| 4 | | | | | 4.9 | 1 | 281 | 0.7 | -3.7 | 0.6 | 3 | C |
| 5 | | | | | 6.0 | 27 | 264 | -0.5 | -4.2 | 3.5 | 2 | C |
| 6 | | | | | 7.0 | 63 | 305 | 1.8 | -0.8 | 6.6 | 1 | C |
| 7 | | | | | 6.6 | 46 | 326 | 3.7 | -0.9 | 5.3 | 1 | C |
| 8 | 383 | 8.4 | 33 | J | 6.6 | 64 | 294 | 1.1 | -0.3 | 6.3 | 1 | J |
| 9 | 384 | 9.5 | 30 | J | 6.2 | 40 | 307 | 2.4 | -1.6 | 4.2 | 3 | J |
| 10 | 460 | 35.9 | 108 | J | 13.6 | 38 | 278 | 0.9 | -3.9 | 7.4 | 11 | J |
| 11 | 469 | 38.0 | 76 | J | 15.7 | -9 | 308 | 9.4 | -11.9 | 2.7 | 2 | J |
| 12 | 466 | 49.3 | 157 | J | 12.2 | 52 | 254 | -1.9 | -2.6 | 10.9 | 4 | J |
| 13 | 484 | 61.7 | 91 | J | 14.1 | 0 | 300 | 4.3 | -7.0 | 2.8 | 11 | J |
| 14 | 469 | 60.2 | 114 | J | 10.6 | -12 | 340 | 6.2 | -2.6 | -0.5 | 9 | J |
| 15 | 471 | 78.6 | 57 | J | 11.5 | -16 | 336 | 10.0 | -5.2 | -1.7 | 1 | J |
| 16 | 484 | 55.9 | 77 | J | 12.2 | -43 | 321 | 5.7 | -6.2 | -5.4 | 7 | J |
| 17 | 500 | 62.7 | 141 | J | 15.9 | -44 | 89 | 0.2 | 7.7 | -11.2 | 9 | J |
| 18 | | | | | 23.4 | 14 | 100 | -3.0 | 18.5 | 1.9 | 13 | C |
| 19 | 514 | 52.8 | 108 | J | 23.2 | -26 | 103 | -3.6 | 14.8 | -9.4 | 15 | J |
| 20 | 548 | 55.7 | 124 | J | 20.4 | -41 | 99 | -2.2 | 13.0 | -12.8 | 9 | J |
| 21 | 516 | 73.8 | 106 | J | 16.0 | -8 | 104 | -3.5 | 13.9 | -2.3 | 7 | J |
| 22 | | | | | 24.3 | -35 | 274 | 1.4 | -19.7 | -13.8 | 4 | J |
| 23 | 515 | 64.9 | 120 | J | 22.9 | 53 | 229 | -2.2 | -2.6 | 4.4 | 22 | J |
| 24 | 511 | 30.8 | 58 | J | 31.8 | 69 | 236 | -6.2 | -9.3 | 28.8 | 8 | J |

NOV. 24, 1982 328

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 27.9 | 63 | 244 | -5.6 | -10.9 | 25.0 | 2 | C |
| 2 | | | | | 25.7 | 58 | 249 | -4.9 | -11.6 | 22.3 | 1 | C |
| 3 | 451 | 8.5 | 143 | J | 24.3 | 58 | 241 | -6.2 | -9.3 | 21.3 | ) | C |
| 4 | 505 | 13.0 | 119 | J | 22.5 | 65 | 254 | -2.6 | -6.0 | 21.2 | 4 | J |
| 5 | 494 | 15.0 | 102 | J | 20.6 | 67 | 275 | 0.7 | -3.9 | 20.1 | 2 | J |
| 6 | 480 | 5.3 | 85 | J | 23.1 | 69 | 262 | -1.2 | -2.2 | 22.9 | 1 | C |
| 7 | 366 | 1.6 | 220 | J | 23.0 | 74 | 240 | -3.2 | 1.7 | 22.7 | 2 | C |
| 8 | 291 | 0.9 | 114 | J | 21.9 | 74 | 221 | -4.7 | 3.7 | 21.1 | 1 | C |
| 9 | 447 | 6.7 | 82 | J | | | | | | | | |
| 10 | 648 | 12.6 | 249 | J | 36.0 | 73 | 359 | 10.0 | 13.3 | 31.0 | 8 | C |
| 11 | 826 | 11.6 | 303 | J | 31.1 | 40 | 66 | 9.2 | 26.7 | 9.0 | 9 | C |
| 12 | 724 | 25.3 | 386 | J | 32.4 | 2 | 79 | 5.7 | 28.5 | -11.0 | 7 | C |
| 13 | 749 | 21.4 | 280 | J | 29.6 | -22 | 80 | 4.5 | 19.8 | -19.0 | 8 | C |
| 14 | 676 | 53.9 | 441 | J | 25.5 | -37 | 77 | 2.6 | 7.9 | -12.4 | 20 | C |
| 15 | 705 | 61.3 | 370 | J | 23.4 | -24 | 52 | 12.0 | 12.1 | -12.6 | 9 | C |
| 16 | 710 | 52.9 | 487 | J | 15.4 | -45 | 35 | 7.2 | 2.8 | -9.9 | 6 | C |
| 17 | 714 | 53.9 | 603 | J | 15.5 | -30 | 56 | 7.0 | 8.7 | -9.1 | 6 | J |
| 18 | 710 | 52.5 | 268 | J | 16.8 | -10 | 63 | 6.8 | 12.8 | -4.5 | 7 | J |
| 19 | 734 | 49.2 | 283 | J | 17.4 | 5 | 62 | 6.5 | 12.4 | 0.1 | 10 | J |
| 20 | 738 | 53.2 | 314 | J | 14.0 | -2 | 48 | 7.6 | 8.4 | -0.8 | 8 | J |
| 21 | 698 | 53.2 | 263 | J | 16.7 | 30 | 94 | -0.5 | 7.6 | 4.2 | 14 | J |
| 22 | 705 | 16.3 | 203 | J | 20.0 | -20 | 246 | -7.4 | -16.5 | -6.7 | 5 | J |
| 23 | 675 | 29.9 | 110 | J | 19.5 | -41 | 259 | -2.0 | -9.9 | -9.1 | 14 | J |
| 24 | 662 | 36.6 | 62 | J | 19.0 | -57 | 59 | 4.9 | 8.4 | -14.6 | 7 | J |

NOV. 25, 1982 329

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 685 | 26.5 | 59 | J | 16.0 | 57 | 86 | 0.5 | 7.6 | 11.5 | 8 | J |
| 2 | 606 | 15.2 | 115 | J | 14.0 | 48 | 75 | 2.2 | 8.7 | 9.3 | 6 | J |
| 3 | 652 | 15.1 | 202 | J | 13.1 | 58 | 106 | -1.7 | 6.9 | 9.5 | 6 | J |
| 4 | 615 | 4.7 | 148 | J | 9.5 | -17 | 153 | -3.0 | 1.4 | -1.2 | 9 | J |
| 5 | 713 | 9.3 | 457 | J | 9.4 | -35 | 155 | -5.2 | 1.6 | -4.4 | 6 | J |
| 6 | 759 | 7.2 | 517 | J | 7.1 | -16 | 145 | -4.4 | 2.6 | -2.3 | 4 | J |
| 7 | 783 | 3.6 | 254 | J | 6.4 | -2 | 112 | -2.1 | 5.0 | -1.8 | 3 | J |
| 8 | 781 | 3.6 | 294 | J | 6.2 | 11 | 129 | -3.3 | 4.2 | -0.5 | 3 | J |
| 9 | | | | | 5.8 | -41 | 126 | -2.2 | 1.6 | -4.1 | 3 | J |
| 10 | | | | | 5.2 | -21 | 143 | -3.1 | 1.6 | -2.3 | 3 | J |
| 11 | 782 | 3.9 | 192 | J | 5.4 | 44 | 196 | -3.4 | 0.5 | 3.5 | 2 | J |
| 12 | 748 | 4.6 | 308 | J | 5.4 | -7 | 158 | -3.1 | 1.0 | -0.9 | 4 | J |
| 13 | 738 | 4.0 | 222 | J | 5.5 | 15 | 181 | -4.9 | 0.4 | 1.3 | 2 | J |
| 14 | 747 | 3.6 | 152 | J | 5.4 | -31 | 134 | -2.7 | 1.9 | -3.1 | 3 | J |
| 15 | 740 | 3.6 | 138 | J | 5.4 | 3 | 118 | -2.0 | 3.7 | -0.9 | 3 | J |
| 16 | 717 | 3.9 | 351 | J | 5.2 | -5 | 122 | -2.1 | 3.2 | -1.1 | 3 | J |
| 17 | 725 | 4.0 | 338 | J | 4.9 | -43 | 154 | -2.6 | 0.7 | -2.8 | 3 | J |
| 18 | | | | | 5.0 | -20 | 151 | -3.5 | 1.7 | -1.7 | 2 | C |
| 19 | 701 | 2.8 | 126 | J | 5.0 | 36 | 116 | -1.6 | 3.4 | 2.3 | 2 | J |
| 20 | 734 | 3.8 | 171 | J | 5.0 | 1 | 159 | -3.5 | 1.3 | 0.0 | 3 | J |
| 21 | 697 | 3.6 | 129 | J | 5.3 | 10 | 167 | -4.4 | 1.0 | 0.8 | 3 | J |
| 22 | 702 | 3.5 | 121 | J | 5.6 | -15 | 143 | -3.3 | 2.5 | -1.1 | 4 | J |
| 23 | 648 | 4.0 | 85 | J | 6.3 | 17 | 149 | -4.7 | 2.8 | 1.7 | 3 | J |
| 24 | 656 | 3.1 | 115 | J | 6.5 | 10 | 148 | -5.2 | 3.2 | 1.1 | 2 | J |

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### NOV. 26, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 699 | 3.0 | 155 | J | 6.6 | 2 | 133 | -3.9 | 4.2 | 0.2 | 3 | J |
| 2 | 654 | 3.4 | 98 | J | 6.4 | 21 | 159 | -5.1 | 2.0 | 2.1 | 3 | J |
| 3 | | | | | 6.6 | -51 | 249 | -1.4 | -3.9 | -4.5 | 2 | J |
| 4 | 778 | 1.7 | 225 | J | 6.1 | -44 | 150 | -2.9 | 1.2 | -3.4 | 4 | J |
| 5 | 690 | 3.9 | 150 | J | 6.1 | -18 | 168 | -4.9 | 0.7 | -1.8 | 3 | J |
| 6 | 673 | 4.5 | 197 | J | 6.3 | -52 | 189 | -3.1 | -1.5 | -3.8 | 4 | J |
| 7 | | | | | 6.1 | 27 | 148 | -4.5 | 3.5 | 1.7 | 1 | J |
| 8 | | | | | 5.9 | -24 | 160 | -4.7 | 0.8 | -2.7 | 2 | C |
| 9 | | | | | 6.4 | -57 | 168 | -2.8 | -1.1 | -4.3 | 3 | C |
| 10 | | | | | 7.5 | -49 | 159 | -4.1 | -0.5 | -5.2 | 3 | C |
| 11 | | | | | 7.4 | -1 | 119 | -3.4 | 5.5 | -2.4 | 2 | C |
| 12 | 604 | 2.2 | 131 | J | 7.0 | 0 | 124 | -3.6 | 4.9 | -2.0 | 2 | C |
| 13 | 586 | 4.1 | 60 | J | 7.1 | 6 | 149 | -5.8 | 3.5 | -0.6 | 2 | J |
| 14 | | | | | 6.7 | -34 | 146 | -2.5 | 0.9 | -2.4 | 6 | J |
| 15 | 655 | 4.4 | 179 | J | 6.6 | -52 | 149 | -2.6 | 0.4 | -4.2 | 4 | J |
| 16 | 640 | 3.4 | 197 | J | 6.8 | -20 | 148 | -4.7 | 2.4 | -2.6 | 3 | J |
| 17 | 618 | 3.6 | 91 | J | 7.5 | 6 | 152 | -6.3 | 3.4 | 0.1 | 2 | J |
| 18 | 611 | 4.9 | 220 | J | 7.1 | 13 | 146 | -5.5 | 3.9 | 1.0 | 2 | J |
| 19 | 631 | 4.3 | 186 | J | 6.8 | 21 | 149 | -5.0 | 3.2 | 2.0 | 2 | J |
| 20 | 670 | 4.0 | 101 | J | 6.7 | 22 | 171 | -6.0 | 1.1 | 2.4 | 1 | J |
| 21 | 674 | 4.7 | 164 | J | 6.3 | -42 | 90 | 0.0 | 3.9 | -3.5 | 3 | J |
| 22 | 653 | 4.9 | 195 | J | 6.3 | 0 | 122 | -2.8 | 4.4 | 0.1 | 3 | J |
| 23 | 612 | 4.2 | 144 | J | 6.4 | 20 | 136 | -4.2 | 4.0 | 2.2 | 2 | J |
| 24 | | | | | 6.5 | 20 | 148 | -4.4 | 2.7 | 2.0 | 3 | C |

### NOV. 28, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 8.6 | -8 | 149 | -5.6 | 3.4 | -0.9 | 5 | C |
| 2 | | | | | 10.5 | -53 | 147 | -4.3 | 2.7 | -6.9 | 4 | C |
| 3 | 589 | 49.6 | 360 | J | 10.0 | 55 | 140 | -3.3 | 3.1 | 5.9 | 7 | J |
| 4 | 610 | 40.0 | 206 | J | 9.4 | 10 | 207 | -6.2 | -3.0 | 1.6 | 6 | J |
| 5 | 586 | 41.3 | 314 | J | 9.2 | 46 | 210 | -4.3 | -1.5 | 5.5 | 6 | J |
| 6 | 607 | 45.3 | 561 | J | 9.1 | -10 | 146 | -3.0 | 1.8 | -1.1 | 8 | J |
| 7 | 595 | 45.0 | 542 | J | 7.9 | -36 | 223 | -2.4 | -2.9 | -1.7 | 7 | J |
| 8 | 618 | 36.5 | 401 | J | 6.9 | 27 | 240 | -2.7 | -3.5 | 4.1 | 3 | J |
| 9 | 632 | 25.1 | 216 | J | 7.0 | 8 | 167 | -5.8 | 1.5 | 0.3 | 4 | J |
| 10 | 561 | 26.8 | 173 | J | 6.5 | -3 | 133 | -3.9 | 3.7 | -1.8 | 3 | J |
| 11 | 660 | 18.3 | 197 | J | 6.8 | 6 | 130 | -4.2 | 4.8 | -1.2 | 2 | J |
| 12 | 511 | 5.2 | 52 | J | 6.8 | 3 | 135 | -4.7 | 4.5 | -1.4 | 2 | J |
| 13 | 595 | 11.0 | 164 | J | 5.9 | -10 | 124 | -2.9 | 3.7 | -2.3 | 3 | J |
| 14 | 542 | 8.5 | 235 | J | 5.5 | 3 | 158 | -4.5 | 1.8 | -0.3 | 3 | J |
| 15 | 590 | 15.0 | 91 | J | 4.9 | -60 | 186 | -1.3 | -0.7 | -2.1 | 4 | J |
| 16 | 536 | 14.3 | 97 | J | 5.6 | -24 | 221 | -3.4 | -3.4 | -1.3 | 2 | J |
| 17 | 544 | 15.8 | 102 | J | 3.6 | -50 | 240 | -0.9 | -1.9 | -1.9 | 2 | J |
| 18 | 556 | 13.7 | 105 | J | 4.8 | -59 | 57 | 1.1 | 1.3 | -3.6 | 3 | J |
| 19 | 544 | 16.3 | 104 | J | 4.4 | -79 | 248 | -0.3 | -0.9 | -3.7 | 2 | J |
| 20 | 570 | 12.2 | 102 | J | 5.3 | -30 | 248 | -0.6 | -1.5 | -0.9 | 5 | J |
| 21 | 559 | 14.3 | 135 | J | 5.1 | -23 | 199 | -2.9 | -1.0 | -1.3 | 4 | J |
| 22 | 548 | 14.5 | 92 | J | 5.1 | -45 | 65 | 1.4 | 3.1 | -3.2 | 2 | J |
| 23 | 537 | 12.2 | 70 | J | 4.7 | -27 | 108 | -1.1 | 3.5 | -1.7 | 3 | J |
| 24 | | | | | 4.1 | -21 | 123 | -2.1 | 3.3 | -1.3 | 0 | J |

### NOV. 30, 1982

334

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 574 | 51.4 | 94 | J | 6.9 | 41 | 52 | 2.8 | 3.5 | 4.1 | 4 | J |
| 2 | 597 | 59.8 | 46 | J | 5.1 | 73 | 129 | -0.2 | 0.2 | 1.0 | 5 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 5.1 | -5 | 26 | 4.6 | 2.2 | -0.7 | 0 | C |
| 5 | | | | | 4.6 | -19 | 28 | 3.7 | 1.7 | -1.7 | 1 | C |
| 6 | | | | | 3.1 | -39 | 56 | 1.2 | 1.3 | -2.0 | 2 | C |
| 7 | 504 | 7.1 | 112 | J | 3.6 | 4 | 64 | 1.2 | 2.4 | -0.5 | 2 | J |
| 8 | 529 | 17.6 | 82 | J | 4.5 | 32 | 60 | 1.5 | 3.1 | 1.0 | 2 | J |
| 9 | 418 | 7.6 | 152 | J | 6.0 | 35 | 182 | -4.6 | 0.9 | 3.0 | 2 | C |
| 10 | | | | | 6.0 | 61 | 175 | -2.7 | 2.0 | 4.5 | 1 | C |
| 11 | | | | | 5.1 | 13 | 158 | -3.3 | 1.6 | 0.3 | 3 | C |
| 12 | | | | | 8.0 | 21 | 156 | -3.9 | 2.2 | 0.9 | 6 | C |
| 13 | | | | | 7.9 | 29 | 128 | -1.5 | 2.2 | 0.6 | 7 | C |
| 14 | | | | | 8.1 | 43 | 201 | -4.1 | -0.3 | 4.3 | 5 | C |
| 15 | | | | | 7.3 | 57 | 97 | -0.3 | 3.7 | 3.4 | 4 | C |
| 16 | | | | | 8.0 | 16 | 183 | -5.7 | -0.0 | 1.7 | 5 | C |
| 17 | | | | | 8.0 | 40 | 119 | -2.7 | 5.4 | 3.8 | 3 | C |
| 18 | | | | | 7.4 | 36 | 153 | -3.7 | 2.2 | 2.9 | 4 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 7.9 | 35 | 141 | -5.0 | 3.9 | 4.8 | 1 | C |
| 23 | | | | | 8.4 | 26 | 160 | -7.1 | 2.4 | 3.8 | 1 | C |
| 24 | | | | | 8.5 | 22 | 163 | -7.5 | 2.1 | 3.3 | 1 | C |

### DEC. 2, 1982

336

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 6.4 | 7 | 182 | -6.0 | -0.2 | 0.7 | 2 | C |
| 2 | | | | | 6.3 | -1 | 168 | -6.0 | 1.3 | -0.1 | 1 | C |
| 3 | | | | | 6.2 | 3 | 183 | -6.1 | -0.3 | 0.3 | 1 | C |
| 4 | | | | | 6.6 | -20 | 184 | -6.0 | -0.6 | -2.2 | 1 | C |
| 5 | | | | | 6.5 | 12 | 161 | -5.3 | 1.9 | 0.9 | 3 | C |
| 6 | | | | | 7.2 | 31 | 179 | -6.0 | 0.9 | 3.4 | 1 | C |
| 7 | | | | | 7.0 | 27 | 198 | -5.8 | -1.0 | 3.5 | 1 | C |
| 8 | | | | | 5.6 | 8 | 201 | -5.2 | -1.6 | 1.4 | 1 | C |
| 9 | | | | | 5.3 | 0 | 186 | -5.2 | -0.5 | 0.2 | 1 | C |
| 10 | | | | | 5.2 | -9 | 168 | -5.0 | 0.7 | -1.1 | 1 | C |
| 11 | | | | | 5.0 | -3 | 158 | -4.6 | 1.6 | -0.9 | 1 | C |
| 12 | | | | | 5.3 | -5 | 152 | -4.5 | 2.1 | -1.2 | 1 | C |
| 13 | | | | | 6.4 | -6 | 162 | -6.0 | 1.6 | -1.3 | 1 | C |
| 14 | | | | | 6.9 | -1 | 172 | -6.8 | 0.9 | -0.4 | 1 | C |
| 15 | | | | | 7.1 | 1 | 167 | -6.9 | 1.5 | -0.2 | 1 | C |
| 16 | | | | | 6.6 | 26 | 164 | -5.4 | 2.0 | 2.4 | 2 | C |
| 17 | | | | | 5.8 | 24 | 120 | -2.2 | 4.2 | 1.5 | 3 | C |
| 18 | | | | | 5.2 | 34 | 125 | -2.4 | 3.7 | 2.5 | 1 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 5.4 | 24 | 49 | 3.2 | 3.6 | 2.5 | 0 | C |
| 24 | | | | | 6.1 | 13 | 38 | 4.5 | 3.5 | 1.6 | 1 | C |

### NOV. 27, 1982

331

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 6.6 | -10 | 176 | -6.2 | 0.4 | -1.1 | 1 | C |
| | | | | 6.7 | 7 | 171 | -5.5 | 0.8 | 0.6 | 3 | C |
| | | | | 7.1 | -2 | 145 | -5.1 | 3.6 | -0.4 | 3 | C |
| | | | | 7.1 | 2 | 133 | -4.4 | 4.8 | -0.4 | 2 | C |
| | | | | 6.4 | 2 | 137 | -4.1 | 3.8 | -0.5 | 2 | C |
| 552 | 8.1 | 73 | J | 6.4 | 7 | 113 | -2.0 | 4.7 | -0.5 | 4 | J |
| 566 | 7.7 | 211 | J | 6.3 | -4 | 114 | -2.3 | 4.8 | -1.9 | 3 | J |
| 576 | 8.0 | 86 | J | 6.4 | -27 | 113 | -1.5 | 2.6 | -3.0 | 5 | J |
| 558 | 10.4 | 104 | J | 7.0 | -12 | 125 | -2.9 | 3.4 | -2.5 | 5 | J |
| | | | | 6.9 | 11 | 161 | -5.9 | 2.3 | 0.3 | 2 | C |
| | | | | 6.4 | 21 | 165 | -5.0 | 2.0 | 1.3 | 3 | C |
| | | | | 6.1 | -37 | 123 | -2.0 | 1.9 | -3.8 | 4 | J |
| 540 | 13.7 | 78 | J | 6.1 | -48 | 130 | -2.2 | 1.1 | -4.5 | 3 | J |
| 516 | 6.8 | 197 | J | 5.9 | -20 | 139 | -3.7 | 2.5 | -2.7 | 3 | J |
| 558 | 12.1 | 69 | J | 5.9 | -15 | 127 | -3.0 | 3.4 | -2.3 | 3 | J |
| | | | | 5.7 | -9 | 139 | -3.6 | 2.9 | -1.4 | 3 | J |
| 545 | 10.9 | 73 | J | 5.9 | 10 | 161 | -4.2 | 1.6 | 0.5 | 4 | J |
| 541 | 10.2 | 271 | J | 6.1 | -9 | 120 | -2.7 | 4.6 | -1.4 | 3 | J |
| | | | | 5.8 | -4 | 128 | -3.1 | 4.0 | -0.7 | 3 | J |
| 565 | 6.2 | 75 | J | 5.6 | -11 | 138 | -3.4 | 3.1 | -1.0 | 3 | J |
| | | | | 5.2 | -3 | 192 | -3.8 | -0.8 | -0.2 | 3 | J |
| 521 | 6.7 | 68 | J | 5.8 | 11 | 176 | -5.2 | 0.3 | 1.0 | 2 | J |
| 513 | 8.5 | 39 | J | 5.8 | -21 | 166 | -5.0 | 1.3 | -1.9 | 2 | J |
| 543 | 4.5 | 75 | J | 5.7 | 35 | 141 | -3.5 | 2.7 | 3.2 | 2 | J |

### NOV. 29, 1982

333

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 4.5 | -39 | 16 | 2.8 | 0.9 | -2.4 | 2 | C |
| | | | | 3.5 | -34 | 35 | 1.3 | 0.9 | -1.1 | 2 | C |
| | | | | 3.1 | 4 | 342 | 2.1 | -0.7 | 0.2 | 2 | J |
| | | | | 4.1 | -5 | 28 | 3.1 | 1.6 | -0.5 | 2 | J |
| 534 | 22.4 | 67 | J | 4.3 | -6 | 21 | 3.6 | 1.3 | -0.6 | 2 | J |
| 543 | 21.3 | 52 | J | 4.3 | -21 | 29 | 2.9 | 1.3 | -1.6 | 2 | J |
| | | | | 4.1 | -10 | 77 | 0.8 | 3.1 | -1.6 | 2 | J |
| | | | | 6.3 | -19 | 13 | 5.7 | 0.6 | -2.3 | 1 | J |
| 542 | 16.7 | 59 | J | 5.4 | -15 | 34 | 3.9 | 2.0 | -2.1 | 2 | J |
| | | | | 5.4 | -8 | 57 | 2.6 | 3.5 | -2.1 | 2 | J |
| 536 | 10.6 | 212 | J | 8.5 | 4 | 114 | -3.3 | 7.1 | -2.2 | 2 | J |
| 554 | 15.8 | 107 | J | 9.7 | 52 | 155 | -4.7 | 4.4 | 5.4 | 5 | J |
| 532 | 25.4 | 75 | J | 11.8 | 25 | 109 | -2.5 | 8.2 | 0.9 | 8 | J |
| 618 | 15.1 | 78 | J | 10.0 | -13 | 72 | 2.8 | 7.5 | -4.6 | 4 | J |
| 607 | 16.8 | 120 | J | 10.2 | 7 | 80 | 1.1 | 6.3 | -0.9 | 8 | J |
| | | | | 10.0 | -40 | 81 | 1.0 | 4.8 | -6.3 | 4 | C |
| | | | | 10.3 | 46 | 147 | -3.2 | 2.7 | 3.6 | 8 | C |
| | | | | 11.4 | -7 | 63 | 3.9 | 7.4 | -1.9 | 8 | J |
| 548 | 41.4 | 96 | J | 11.1 | -45 | 63 | 3.3 | 6.1 | -7.7 | 4 | J |
| 590 | 41.3 | 157 | J | 11.6 | -43 | 60 | 3.4 | 5.8 | -6.5 | 7 | J |
| 533 | 47.4 | 81 | J | | | | | | | | |
| 603 | 55.2 | 102 | J | 6.2 | 80 | 109 | -0.1 | 0.2 | 2.0 | 6 | J |
| 531 | 58.3 | 90 | J | 9.8 | 27 | 73 | 2.4 | 7.6 | 4.6 | 3 | J |
| 557 | 53.3 | 110 | J | 10.8 | 48 | 81 | 1.1 | 6.6 | 8.1 | 2 | J |

### DEC. 1, 1982

335

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 8.3 | 25 | 170 | -7.4 | 1.1 | 3.6 | 0 | C |
| | | | | 8.1 | 17 | 164 | -7.5 | 2.1 | 2.4 | 0 | C |
| | | | | 8.1 | 15 | 160 | -7.3 | 2.8 | 2.0 | 1 | C |
| | | | | 8.0 | 16 | 154 | -6.9 | 3.6 | 1.9 | 0 | C |
| | | | | 8.0 | 19 | 152 | -6.6 | 3.9 | 2.0 | 1 | C |
| | | | | 7.8 | 14 | 149 | -6.5 | 4.2 | 1.0 | 0 | C |
| | | | | 7.8 | 13 | 144 | -6.2 | 4.7 | 0.5 | 1 | C |
| | | | | 7.2 | 11 | 136 | -4.9 | 5.0 | -0.2 | 2 | C |
| | | | | 7.3 | 7 | 143 | -5.7 | 4.3 | -0.6 | 1 | C |
| | | | | 7.7 | 14 | 149 | -6.4 | 4.3 | 0.3 | 1 | C |
| | | | | 7.7 | 21 | 144 | -5.8 | 4.9 | 1.0 | 1 | C |
| | | | | 7.7 | 15 | 152 | -6.5 | 3.9 | 0.7 | 1 | C |
| | | | | 7.5 | 1 | 151 | -6.5 | 3.4 | -1.0 | 1 | C |
| | | | | 7.2 | 6 | 148 | -6.0 | 3.8 | -0.4 | 1 | C |
| | | | | 6.7 | 10 | 149 | -5.5 | 3.5 | 0.3 | 1 | C |
| | | | | 6.1 | 8 | 154 | -5.4 | 2.8 | 0.3 | 0 | C |
| | | | | 6.0 | 11 | 149 | -5.0 | 3.2 | 0.7 | 1 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | 6.3 | 0 | 166 | -6.1 | 1.5 | 0.1 | 0 | C |
| | | | | 6.3 | -6 | 166 | -6.0 | 1.6 | -0.5 | 0 | C |
| | | | | 6.5 | -16 | 159 | -5.3 | 2.2 | -1.6 | 2 | C |

### DEC. 3, 1982

337

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 6.2 | -9 | 38 | 4.4 | 3.5 | -0.7 | 2 | C |
| | | | | 6.2 | 3 | 94 | -0.2 | 3.8 | 0.3 | 5 | C |
| | | | | 5.9 | 21 | 133 | -3.5 | 3.7 | 1.8 | 2 | C |
| | | | | 6.2 | 29 | 138 | -3.8 | 3.7 | 2.6 | 2 | C |
| | | | | 5.3 | 33 | 139 | -3.2 | 3.2 | 2.3 | 1 | C |
| | | | | 6.0 | -6 | 148 | -4.9 | 2.9 | -1.2 | 1 | C |
| | | | | 6.7 | 14 | 139 | -4.6 | 4.2 | 0.5 | 2 | C |
| | | | | 5.7 | 16 | 132 | -3.5 | 4.1 | 0.3 | 2 | C |
| | | | | 4.2 | 47 | 32 | 2.2 | 2.2 | 2.1 | 2 | C |
| | | | | 5.4 | 62 | 16 | 2.0 | 1.9 | 3.5 | 3 | C |
| | | | | 7.4 | 20 | 288 | 1.9 | -4.6 | 4.0 | 4 | C |
| | | | | 8.5 | 1 | 294 | 2.7 | -5.6 | 2.1 | 5 | C |
| | | | | 8.0 | -72 | 31 | 2.0 | -1.1 | -7.2 | 2 | C |
| | | | | 8.4 | -46 | 70 | 1.9 | 3.5 | -7.0 | 2 | C |
| | | | | 7.6 | 1 | 26 | 3.5 | 1.6 | -0.3 | 6 | C |
| | | | | 6.6 | -28 | 333 | 1.2 | -0.7 | -0.6 | 6 | C |
| | | | | 6.3 | -7 | 52 | 3.3 | 4.1 | -1.2 | 3 | C |
| | | | | 5.8 | 55 | 333 | 1.3 | -0.5 | 2.1 | 5 | C |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | 7.9 | 8 | 296 | 2.8 | -5.6 | 0.5 | 4 | C |
| | | | | 7.1 | 15 | 306 | 3.0 | -4.2 | 1.0 | 4 | C |
| | | | | 8.4 | -5 | 337 | 5.9 | -2.5 | -0.7 | 5 | C |

# 12/04/82 – 12/11/82

DEC. 4, 1982

338

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 469 | 27.3 | 99 | J | 13.6 | -18 | 301 | 6.1 | -10.1 | -4.1 | 5 | C |
| 3 | | | | | 13.1 | -1 | 312 | 6.1 | -6.8 | 0.0 | 8 | C |
| 4 | | | | | 12.3 | 1 | 326 | 9.5 | -6.4 | 0.6 | 3 | C |
| 5 | 432 | 22.4 | 117 | J | 11.4 | -15 | 295 | 4.1 | -9.3 | -1.3 | 3 | C |
| 6 | 375 | 36.1 | 404 | J | 11.3 | 13 | 294 | 4.1 | -8.5 | 4.1 | 3 | C |
| 7 | 357 | 28.4 | 145 | J | 11.7 | 27 | 280 | 1.7 | -8.0 | 7.1 | 4 | C |
| 8 | 381 | 20.5 | 78 | J | 11.6 | 9 | 290 | 3.7 | -9.0 | 4.6 | 3 | C |
| 9 | 391 | 13.9 | 75 | J | 11.7 | 12 | 295 | 4.5 | -8.4 | 5.3 | 3 | J |
| 10 | 371 | 19.0 | 172 | J | 12.2 | 21 | 288 | 3.1 | -7.8 | 6.9 | 5 | J |
| 11 | 380 | 13.7 | 46 | J | 12.6 | 22 | 282 | 2.3 | -8.7 | 7.9 | 3 | J |
| 12 | | | | | 12.6 | 16 | 269 | -0.3 | -10.1 | 7.2 | 1 | C |
| 13 | | | | | 12.4 | 19 | 279 | 1.8 | -9.5 | 7.1 | 2 | C |
| 14 | | | | | 12.0 | 18 | 272 | 0.4 | -9.7 | 6.4 | 2 | C |
| 15 | | | | | 11.8 | 11 | 284 | 2.8 | -10.1 | 4.6 | 3 | C |
| 16 | | | | | 12.5 | 1 | 287 | 3.4 | -11.3 | 2.4 | 3 | C |
| 17 | | | | | 12.8 | 13 | 258 | -2.5 | -11.0 | 4.1 | 4 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 13.3 | -52 | 312 | 5.5 | -5.3 | -10.9 | 0 | C |
| 23 | | | | | 11.5 | -59 | 317 | 4.3 | -3.1 | -10.2 | 1 | C |
| 24 | | | | | 10.4 | -66 | 321 | 3.3 | -1.9 | -9.7 | 0 | C |

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340

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 3.2 | 45 | J | 6.7 | -27 | 307 | 3.5 | -4.4 | -3.3 | 1 | J |
| 2 | 422 | 3.7 | 51 | J | 6.5 | -28 | 301 | 2.9 | -4.6 | -3.2 | 1 | J |
| 3 | 420 | 4.6 | 52 | J | 6.8 | -16 | 295 | 2.7 | -5.8 | -1.8 | 1 | J |
| 4 | | | | | 5.9 | -3 | 306 | 3.2 | -4.5 | -0.0 | 2 | J |
| 5 | | | | | 6.0 | 13 | 302 | 2.9 | -4.5 | 1.8 | 2 | J |
| 6 | 439 | 9.2 | 44 | J | 7.2 | 0 | 204 | -6.1 | -2.7 | 0.5 | 3 | J |
| 7 | 417 | 9.8 | 41 | J | 7.5 | 1 | 245 | -3.0 | -6.3 | 1.6 | 2 | J |
| 8 | 395 | 8.6 | 33 | J | 7.8 | -1 | 225 | -5.3 | -5.1 | 1.3 | 2 | J |
| 9 | | | | | 7.3 | -4 | 245 | -3.0 | -6.2 | 1.6 | 1 | C |
| 10 | | | | | 7.5 | -9 | 251 | -2.3 | -6.8 | 1.1 | 2 | C |
| 11 | | | | | 7.6 | 5 | 253 | -2.2 | -6.5 | 2.9 | 1 | C |
| 12 | | | | | 7.9 | 13 | 232 | -4.7 | -5.1 | 3.6 | 1 | C |
| 13 | | | | | 7.6 | 8 | 246 | -2.8 | -5.8 | 2.9 | 2 | C |
| 14 | | | | | 7.8 | 12 | 246 | -3.0 | -5.9 | 3.1 | 2 | C |
| 15 | 364 | 9.6 | 30 | J | 7.7 | 15 | 267 | -0.4 | -6.6 | 3.5 | 2 | J |
| 16 | | | | | 8.1 | 19 | 271 | 0.1 | -7.1 | 3.9 | 0 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 338 | 14.2 | 18 | J | 7.9 | 27 | 262 | -1.0 | -7.3 | 2.9 | 1 | J |
| 23 | 341 | 11.3 | 18 | J | 8.2 | 42 | 268 | -0.2 | -6.5 | 4.7 | 1 | J |
| 24 | 347 | 8.7 | 20 | J | 8.4 | 44 | 283 | 1.3 | -6.2 | 5.0 | 2 | J |

DEC. 8, 1982

342

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 25.9 | 65 | J | 17.1 | -19 | 69 | 5.6 | 15.1 | -4.1 | 4 | J |
| 2 | 358 | 30.6 | 83 | J | 10.2 | -4 | 56 | 4.4 | 6.6 | -0.2 | 7 | J |
| 3 | | | | | 14.3 | 32 | 69 | 4.1 | 10.7 | 7.4 | 4 | J |
| 4 | | | | | 15.9 | -6 | 42 | 11.3 | 10.1 | -2.0 | 4 | J |
| 5 | | | | | 16.2 | -11 | 41 | 10.7 | 9.0 | -3.7 | 7 | J |
| 6 | | | | | 15.5 | 2 | 57 | 8.3 | 12.7 | -1.6 | 3 | J |
| 7 | | | | | 14.8 | -43 | 159 | -9.6 | 1.5 | -10.2 | 5 | J |
| 8 | 377 | 18.7 | 120 | J | 13.2 | -36 | 196 | -8.9 | -4.3 | -5.8 | 7 | J |
| 9 | | | | | 16.8 | -27 | 99 | -2.2 | 11.3 | -11.2 | 4 | C |
| 10 | | | | | 11.1 | -19 | 107 | -2.7 | 7.3 | -5.6 | 6 | C |
| 11 | | | | | 10.9 | -44 | 132 | -5.2 | 3.2 | -9.0 | 1 | J |
| 12 | 386 | 14.3 | 209 | J | 9.8 | -54 | 135 | -3.4 | 1.2 | -7.3 | 6 | J |
| 13 | | | | | 11.7 | -58 | 101 | -1.2 | 3.1 | -11.1 | 2 | J |
| 14 | 381 | 13.3 | 295 | J | 9.6 | -35 | 116 | -3.1 | 4.9 | -6.3 | 4 | J |
| 15 | 416 | 10.5 | 188 | J | 12.0 | -45 | 113 | -3.2 | 5.7 | -9.5 | 4 | J |
| 16 | | | | | 12.0 | -31 | 116 | -4.4 | 8.0 | -7.4 | 2 | J |
| 17 | 405 | 19.9 | 89 | J | 11.9 | -74 | 150 | -2.5 | 0.4 | -10.0 | 6 | J |
| 18 | 372 | 17.6 | 116 | J | 12.3 | -57 | 123 | -3.4 | 4.8 | -9.9 | 4 | J |
| 19 | 402 | 17.0 | 135 | J | 11.2 | -35 | 122 | -4.2 | 6.7 | -5.6 | 6 | J |
| 20 | | | | | 11.2 | -55 | 189 | -6.2 | -0.6 | -9.0 | 3 | J |
| 21 | 440 | 13.7 | 119 | J | 10.1 | -4 | 114 | -3.6 | 8.0 | 0.0 | 5 | J |
| 22 | 490 | 14.4 | 124 | J | 10.4 | 15 | 108 | -3.0 | 9.0 | 3.6 | 2 | J |
| 23 | | | | | 7.8 | 19 | 124 | -3.8 | 5.3 | 2.9 | 2 | C |
| 24 | | | | | 7.6 | 23 | 141 | -5.3 | 3.9 | 3.4 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 7.0 | 25 | 180 | -5.5 | -0.3 | 2.6 | 4 | C |
| 2 | 411 | 7.4 | 42 | J | 10.0 | 30 | 197 | -8.2 | -2.9 | 4.8 | 1 | J |
| 3 | 418 | 10.1 | 51 | J | 9.0 | 30 | 191 | -7.7 | -1.6 | 4.5 | 1 | J |
| 4 | 406 | 8.5 | 51 | J | 9.4 | 37 | 185 | -7.4 | -0.5 | 5.6 | 2 | J |
| 5 | 409 | 11.4 | 46 | J | 8.3 | -35 | 328 | 2.8 | -2.0 | -2.2 | 7 | J |
| 6 | 407 | 12.2 | 39 | J | 9.9 | -48 | 334 | 5.8 | -3.8 | -6.6 | 2 | J |
| 7 | | | | | 13.0 | -50 | 341 | 6.3 | -3.7 | -7.4 | 7 | C |
| 8 | 467 | 50.2 | 70 | J | 14.4 | -36 | 281 | 0.6 | -3.7 | -1.5 | 14 | J |
| 9 | 564 | 54.8 | 157 | J | 29.9 | -31 | 291 | 8.9 | -26.5 | -7.8 | 10 | J |
| 10 | 572 | 69.3 | 154 | J | 33.3 | -26 | 288 | 8.9 | -30.2 | -5.3 | 9 | J |
| 11 | 666 | 58.2 | 714 | J | 28.3 | -54 | 351 | 4.8 | -2.7 | -6.2 | 28 | J |
| 12 | | | | | 26.6 | 25 | 218 | -13.9 | -7.9 | 11.0 | 17 | C |
| 13 | 723 | 23.7 | 189 | J | 27.5 | 14 | 183 | -25.4 | 0.4 | 6.5 | 8 | J |
| 14 | 681 | 21.8 | 183 | J | 24.5 | 6 | 163 | -22.5 | 7.3 | 0.8 | 6 | J |
| 15 | | | | | 19.8 | 19 | 186 | -18.3 | -0.7 | 6.6 | 3 | J |
| 16 | | | | | 15.9 | 16 | 164 | -14.0 | 4.5 | 3.6 | 4 | C |
| 17 | 598 | 64.1 | 146 | J | 14.9 | -16 | 266 | -0.7 | -10.6 | -2.1 | 11 | J |
| 18 | 595 | 67.1 | 117 | J | 19.5 | -16 | 283 | 4.2 | -18.3 | -4.7 | 3 | J |
| 19 | 573 | 63.2 | 98 | J | 18.5 | -24 | 273 | 0.9 | -16.3 | -7.6 | 4 | J |
| 20 | 570 | 50.8 | 91 | J | 17.6 | -13 | 275 | 1.4 | -16.2 | -4.8 | 4 | J |
| 21 | 600 | 52.0 | 118 | J | 12.6 | 18 | 277 | 1.4 | -11.9 | 2.7 | 3 | J |
| 22 | 559 | 17.4 | 407 | J | 14.3 | 56 | 263 | -0.9 | -8.6 | 10.0 | 5 | J |
| 23 | 550 | 11.4 | 424 | J | 15.6 | 17 | 288 | 4.3 | -13.6 | 2.5 | 6 | J |
| 24 | 540 | 10.9 | 247 | J | 15.1 | -4 | 289 | 4.7 | -13.4 | -2.8 | 4 | J |

DEC. 5, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 408 | 20.9 | 40 | J | 10.1 | -75 | 301 | 1.3 | -1.5 | -9.7 | 2 | J |
| 2 | 397 | 13.9 | 44 | J | 10.0 | -78 | 335 | 1.8 | -0.5 | -9.5 | 2 | J |
| 3 | | | | | 10.2 | -44 | 316 | 5.3 | -5.2 | -6.9 | 1 | C |
| 4 | | | | | 10.2 | -33 | 318 | 6.3 | -6.1 | -5.1 | 1 | C |
| 5 | | | | | 9.7 | -34 | 332 | 6.9 | -4.4 | -4.9 | 2 | C |
| 6 | | | | | 8.7 | -35 | 323 | 5.5 | -5.1 | -4.1 | 1 | C |
| 7 | 400 | 6.5 | 99 | J | 8.7 | -46 | 313 | 3.8 | -5.3 | -4.5 | 3 | C |
| 8 | 409 | 5.8 | 102 | J | 8.3 | -34 | 305 | 3.8 | -6.4 | -2.7 | 2 | J |
| 9 | 416 | 3.9 | 80 | J | 7.0 | -5 | 316 | 4.8 | -4.6 | 0.9 | 2 | J |
| 10 | 425 | 3.6 | 61 | J | 6.8 | -13 | 312 | 4.2 | -4.8 | 0.2 | 2 | J |
| 11 | 458 | 3.8 | 88 | J | 6.5 | -13 | 321 | 4.7 | -4.0 | -0.0 | 1 | J |
| 12 | 473 | 24.7 | 8829 | J | 6.5 | -2 | 299 | 3.1 | -5.3 | 1.6 | 2 | J |
| 13 | 446 | 3.7 | 85 | J | 6.4 | 0 | 288 | 1.9 | -5.5 | 1.7 | 2 | J |
| 14 | | | | | 6.5 | -9 | 337 | 5.7 | -2.6 | -0.3 | 1 | C |
| 15 | | | | | | | | | | | | |
| 16 | 470 | 4.9 | 97 | J | 6.8 | -21 | 307 | 3.7 | -5.3 | -1.5 | 2 | J |
| 17 | 423 | 3.6 | 46 | J | 6.6 | 2 | 307 | 3.8 | -5.0 | 0.8 | 2 | J |
| 18 | 428 | 3.5 | 70 | J | 6.4 | -10 | 310 | 3.9 | -4.7 | -0.7 | 2 | J |
| 19 | 430 | 3.6 | 55 | J | 6.5 | -15 | 313 | 4.1 | -4.4 | -1.5 | 2 | J |
| 20 | 421 | 3.6 | 63 | J | 6.3 | 2 | 318 | 4.6 | -4.2 | 0.1 | 1 | J |
| 21 | 461 | 3.9 | 120 | J | 6.2 | 4 | 311 | 3.7 | -4.3 | 0.1 | 2 | J |
| 22 | 424 | 3.4 | 67 | J | 6.5 | -5 | 309 | 3.9 | -4.7 | -0.9 | 2 | J |
| 23 | 424 | 2.7 | 78 | J | 6.5 | -7 | 317 | 4.5 | -4.1 | -1.1 | 1 | J |
| 24 | | | | | 6.9 | -18 | 317 | 4.8 | -4.2 | -2.6 | 0 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 8.3 | 12 | 259 | -1.5 | -7.8 | 1.0 | 2 | J |
| 2 | 343 | 10.5 | 22 | J | 8.2 | 31 | 282 | 1.4 | -6.9 | 3.8 | 2 | J |
| 3 | 342 | 10.4 | 20 | J | 8.8 | 25 | 285 | 2.0 | -7.6 | 3.6 | 1 | J |
| 4 | | | | | 9.4 | 31 | 295 | 3.4 | -7.1 | 5.2 | 1 | J |
| 5 | | | | | 20.6 | -5 | 260 | -3.0 | -17.6 | 0.5 | 10 | C |
| 6 | | | | | 18.0 | 55 | 85 | 0.7 | 10.6 | 10.9 | 9 | C |
| 7 | | | | | 16.3 | 74 | 353 | 4.3 | 2.8 | 14.5 | 5 | C |
| 8 | | | | | 20.5 | 55 | 331 | 9.9 | -0.9 | 17.0 | 6 | J |
| 9 | | | | | 21.2 | 36 | 312 | 11.1 | -8.1 | 15.2 | 5 | J |
| 10 | | | | | 23.1 | 2 | 288 | 7.1 | -20.4 | 7.7 | 3 | C |
| 11 | 435 | 47.3 | 96 | J | 25.3 | -8 | 291 | 8.7 | -22.4 | 4.2 | 6 | C |
| 12 | | | | | 21.1 | -36 | 295 | 7.1 | -18.3 | -6.9 | 3 | J |
| 13 | | | | | 22.1 | -44 | 319 | 11.5 | -13.7 | -11.2 | 6 | J |
| 14 | | | | | 17.2 | -55 | 339 | 9.2 | -6.9 | -12.8 | 1 | C |
| 15 | | | | | 16.1 | -57 | 342 | 8.1 | -5.2 | -12.1 | 3 | C |
| 16 | 390 | 21.6 | 57 | J | 16.4 | -34 | 283 | 2.3 | -11.2 | -5.3 | 11 | J |
| 17 | | | | | | | | | | | | |
| 18 | 392 | 24.2 | 58 | J | 18.9 | -29 | 280 | 2.8 | -16.5 | -8.1 | 3 | J |
| 19 | | | | | 18.5 | -58 | 298 | 4.1 | -7.8 | -13.9 | 9 | J |
| 20 | | | | | 14.5 | -30 | 72 | 3.1 | 9.8 | -5.5 | 9 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 14.8 | 34 | 49 | 7.5 | 7.6 | 8.4 | 5 | C |
| 24 | | | | | 15.0 | -2 | 52 | 9.2 | 11.7 | 0.8 | 0 | C |

DEC. 9, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 397 | 7.8 | 98 | J | 7.4 | 22 | 157 | -5.5 | 2.1 | 2.7 | 4 | J |
| 2 | | | | | 7.3 | -12 | 207 | -5.5 | -2.7 | -1.5 | 4 | J |
| 3 | 474 | 9.7 | 166 | J | 6.9 | -11 | 209 | -3.8 | -2.1 | -0.9 | 5 | J |
| 4 | 468 | 11.6 | 233 | J | 6.6 | -43 | 181 | -4.3 | -0.2 | -4.0 | 3 | J |
| 5 | 470 | 12.2 | 128 | J | 6.0 | -33 | 181 | -4.0 | -0.3 | -2.6 | 4 | J |
| 6 | | | | | 6.0 | 6 | 153 | -4.3 | 2.2 | 0.2 | 4 | J |
| 7 | | | | | 6.5 | -17 | 222 | -4.3 | -4.1 | -0.9 | 3 | J |
| 8 | | | | | 6.5 | 3 | 236 | -3.4 | -4.7 | 1.6 | 3 | J |
| 9 | | | | | 6.3 | -14 | 168 | -5.4 | 0.7 | -1.7 | 3 | J |
| 10 | | | | | 5.6 | 34 | 277 | 0.5 | -3.1 | 3.9 | 3 | J |
| 11 | | | | | 6.1 | 33 | 220 | -3.8 | -2.0 | 4.0 | 1 | J |
| 12 | | | | | 6.2 | -28 | 183 | -5.1 | -1.1 | -2.5 | 2 | J |
| 13 | 511 | 36.4 | 82 | J | 6.8 | -41 | 109 | -1.6 | 3.4 | -5.5 | 1 | J |
| 14 | 479 | 30.6 | 67 | J | 5.2 | -48 | 129 | -2.1 | 1.6 | -4.2 | 2 | J |
| 15 | 467 | 41.5 | 75 | J | 3.4 | -12 | 165 | -2.9 | 0.6 | -0.8 | 1 | J |
| 16 | | | | | 6.8 | 41 | 252 | -1.4 | -3.7 | 4.6 | 3 | J |
| 17 | 464 | 26.5 | 42 | J | 7.1 | 43 | 325 | 3.2 | -1.9 | 3.8 | 5 | J |
| 18 | | | | | 7.1 | -14 | 192 | -4.7 | -1.0 | -1.1 | 5 | J |
| 19 | | | | | 4.4 | 43 | 314 | 1.7 | -1.8 | 2.2 | 3 | J |
| 20 | 486 | 41.9 | 78 | J | 5.1 | 43 | 335 | 3.0 | -1.6 | 3.1 | 3 | J |
| 21 | 466 | 28.8 | 44 | J | 7.1 | 18 | 331 | 5.1 | -3.0 | 1.6 | 4 | J |
| 22 | 448 | 21.1 | 81 | J | 6.4 | -9 | 182 | -5.8 | -0.1 | -0.9 | 2 | J |
| 23 | | | | | 7.3 | 4 | 172 | -7.1 | 1.0 | 0.6 | 1 | C |
| 24 | | | | | 7.9 | 8 | 159 | -7.3 | 2.6 | 1.4 | 1 | C |

DEC. 11, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 520 | 12.1 | 224 | J | 13.5 | -7 | 280 | 2.3 | -12.5 | -3.0 | 3 | J |
| 2 | 518 | 11.7 | 220 | J | 13.4 | -23 | 286 | 3.4 | -11.3 | -6.1 | 1 | J |
| 3 | | | | | 14.6 | -40 | 308 | 6.5 | -8.0 | -9.3 | 4 | C |
| 4 | | | | | 14.7 | -70 | 301 | 2.6 | -4.5 | -13.4 | 3 | C |
| 5 | | | | | 11.5 | -57 | 346 | 5.0 | -1.9 | -8.0 | 6 | C |
| 6 | | | | | 13.6 | -13 | 342 | 11.0 | -3.9 | -2.1 | 6 | C |
| 7 | | | | | 13.9 | 26 | 347 | 11.8 | -1.6 | 6.3 | 3 | C |
| 8 | | | | | 11.1 | 32 | 341 | 7.6 | -1.3 | 5.5 | 5 | J |
| 9 | | | | | 10.9 | 15 | 337 | 8.8 | -2.9 | 3.5 | 5 | J |
| 10 | | | | | 11.5 | 57 | 311 | 3.6 | -1.5 | 9.4 | 5 | J |
| 11 | | | | | 11.7 | 66 | 154 | -4.2 | 5.0 | 9.4 | 2 | J |
| 12 | | | | | 11.9 | 62 | 178 | -5.5 | 3.1 | 9.9 | 1 | J |
| 13 | | | | | 12.5 | 64 | 159 | -5.0 | 4.7 | 10.1 | 3 | J |
| 14 | | | | | 11.8 | 54 | 224 | -4.3 | -2.2 | 8.9 | 6 | J |
| 15 | | | | | 9.6 | -50 | 9 | 4.6 | -0.3 | -5.6 | 6 | J |
| 16 | | | | | 10.7 | -51 | 1 | 6.7 | -1.0 | -8.2 | 1 | J |
| 17 | | | | | 12.0 | -45 | 355 | 7.4 | -1.2 | -7.3 | 6 | J |
| 18 | | | | | 12.3 | -43 | 343 | 8.3 | -2.8 | -8.0 | 3 | J |
| 19 | | | | | 12.2 | -41 | 335 | 8.1 | -3.6 | -7.8 | 3 | J |
| 20 | | | | | 13.1 | -30 | 316 | 7.7 | -7.0 | -6.7 | 4 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 12.9 | -35 | 327 | 8.3 | -4.5 | -7.6 | 4 | J |
| 23 | | | | | 11.2 | -10 | 312 | 5.8 | -6.2 | -2.4 | 7 | J |
| 24 | | | | | 10.3 | -16 | 312 | 5.9 | -6.1 | -3.4 | 5 | J |

ORIGINAL PAGE IS
OF POOR QUALITY

12/12/82 – 12/19/82

DEC. 12, 1982 346

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 9.8 | 22 | 300 | 3.6 | -6.5 | 2.1 | 6 | C |
| 2 | | | | | 9.6 | 5 | 315 | 6.1 | -6.1 | 0.2 | 3 | C |
| 3 | | | | | 9.0 | 3 | 324 | 7.1 | -5.1 | 0.3 | 2 | C |
| 4 | | | | | 8.9 | -25 | 349 | 7.8 | -1.5 | -3.7 | 1 | C |
| 5 | | | | | 8.7 | -7 | 354 | 7.9 | -0.8 | -1.0 | 3 | C |
| 6 | | | | | 8.6 | -13 | 344 | 7.3 | -2.4 | -1.4 | 3 | C |
| 7 | | | | | 8.2 | -22 | 7 | 7.0 | 0.3 | -2.9 | 2 | C |
| 8 | | | | | 7.8 | -12 | 6 | 7.3 | 0.4 | -1.7 | 2 | C |
| 9 | | | | | 7.8 | -27 | 10 | 6.6 | 0.2 | -3.7 | 2 | C |
| 10 | | | | | 7.8 | -26 | 14 | 6.7 | 0.7 | -3.8 | 1 | C |
| 11 | | | | | 7.6 | -22 | 12 | 6.9 | 0.6 | -3.1 | 1 | C |
| 12 | | | | | 7.3 | -2 | 8 | 7.0 | 0.9 | -0.5 | 1 | C |
| 13 | | | | | 7.4 | 14 | 335 | 5.3 | -2.0 | 2.1 | 4 | C |
| 14 | | | | | 7.5 | 10 | 343 | 6.7 | -1.8 | 1.6 | 2 | C |
| 15 | | | | | 7.5 | -7 | 346 | 7.1 | -1.9 | -0.6 | 1 | C |
| 16 | | | | | 7.3 | 0 | 339 | 6.6 | -2.5 | 0.3 | 1 | C |
| 17 | | | | | 7.3 | 6 | 344 | 6.9 | -1.9 | 0.9 | 0 | C |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

DEC. 13, 1982 347

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 7.3 | -12 | 338 | 6.5 | -2.4 | -1.8 | 1 | C |
| 2 | | | | | 7.0 | -4 | 330 | 5.9 | -3.4 | -0.8 | 1 | C |
| 3 | | | | | 7.0 | -13 | 313 | 4.5 | -4.7 | -1.8 | 2 | C |
| 4 | | | | | 7.0 | -19 | 305 | 3.6 | -5.2 | -2.2 | 1 | C |
| 5 | | | | | 6.9 | -6 | 326 | 5.6 | -3.8 | -0.5 | 1 | C |
| 6 | | | | | 6.8 | -16 | 329 | 5.5 | -3.5 | -1.4 | 1 | C |
| 7 | | | | | 6.7 | 13 | 327 | 4.9 | -2.9 | 1.9 | 2 | C |
| 8 | | | | | 6.9 | -11 | 332 | 5.2 | -3.0 | -0.4 | 3 | C |
| 9 | | | | | 6.8 | -11 | 292 | 2.4 | -6.0 | 0.3 | 1 | C |
| 10 | | | | | 6.6 | -20 | 319 | 4.2 | -4.0 | -1.0 | 3 | C |
| 11 | | | | | 6.5 | -9 | 325 | 4.9 | -3.5 | 0.1 | 2 | C |
| 12 | | | | | 6.5 | -16 | 341 | 5.2 | -2.2 | -1.0 | 2 | C |
| 13 | | | | | 6.4 | -19 | 324 | 4.5 | -3.6 | -1.0 | 2 | C |
| 14 | | | | | 6.4 | -2 | 11 | 5.5 | 1.0 | -0.4 | 3 | C |
| 15 | | | | | 6.3 | 1 | 342 | 5.6 | -1.8 | 0.4 | 2 | C |
| 16 | | | | | 6.0 | 1 | 322 | 4.6 | -3.5 | 0.5 | 1 | C |
| 17 | | | | | 6.1 | -5 | 335 | 5.0 | -2.4 | -0.3 | 2 | C |
| 18 | | | | | 6.1 | -7 | 308 | 3.5 | -4.5 | -0.7 | 1 | C |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 6.4 | -23 | 267 | -0.3 | -5.4 | -3.4 | 0 | C |
| 24 | | | | | 6.0 | -9 | 302 | 2.9 | -4.4 | -1.6 | 2 | C |

DEC. 14, 1982 348

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 6.0 | -6 | 314 | 3.6 | -3.6 | -1.0 | 2 | C |
| 2 | | | | | 5.5 | 14 | 332 | 2.4 | -1.4 | 0.5 | 4 | C |
| 3 | | | | | 6.4 | -10 | 297 | 2.7 | -5.4 | -1.4 | 1 | C |
| 4 | | | | | 6.1 | 8 | 295 | 1.8 | -3.9 | 0.5 | 4 | C |
| 5 | | | | | 5.9 | -1 | 343 | 2.6 | -0.8 | -0.0 | 5 | C |
| 6 | | | | | 6.2 | -4 | 287 | 1.5 | -4.9 | 0.3 | 3 | C |
| 7 | | | | | 6.2 | -16 | 302 | 2.8 | -4.8 | -0.8 | 2 | C |
| 8 | | | | | 6.3 | 9 | 266 | -0.4 | -5.1 | 2.0 | 3 | C |
| 9 | | | | | 6.3 | 17 | 314 | 3.2 | -2.9 | 2.2 | 4 | C |
| 10 | | | | | 6.7 | 24 | 350 | 5.9 | -0.3 | 2.8 | 1 | C |
| 11 | | | | | 6.7 | -25 | 340 | 5.1 | -2.5 | -2.0 | 2 | C |
| 12 | | | | | 6.9 | 16 | 280 | 1.0 | -5.3 | 3.2 | 2 | C |
| 13 | | | | | 6.7 | -4 | 305 | 3.5 | -5.0 | 0.8 | 2 | C |
| 14 | | | | | 6.9 | -6 | 297 | 2.8 | -5.6 | 0.5 | 3 | C |
| 15 | | | | | 6.7 | 4 | 327 | 5.4 | -3.3 | 1.0 | 2 | C |
| 16 | | | | | 6.9 | 0 | 340 | 6.1 | -2.2 | 0.2 | 2 | C |
| 17 | | | | | 7.2 | 8 | 336 | 6.2 | -2.7 | 1.2 | 2 | C |
| 18 | | | | | 7.1 | 2 | 336 | 6.4 | -2.8 | 0.2 | 0 | C |
| 19 | | | | | 7.2 | -2 | 335 | 6.5 | -3.0 | -0.4 | 1 | C |
| 20 | | | | | 8.0 | -24 | 337 | 6.5 | -2.4 | -3.3 | 2 | C |
| 21 | | | | | 10.6 | -42 | 20 | 7.2 | 3.4 | -6.4 | 2 | C |
| 22 | | | | | 10.0 | -17 | 17 | 7.7 | 2.7 | -2.1 | 4 | C |
| 23 | | | | | 9.8 | -5 | 40 | 6.6 | 5.6 | 0.1 | 4 | C |
| 24 | | | | | 10.6 | 53 | 19 | 5.9 | 0.7 | 8.5 | 2 | C |

DEC. 15, 1982 349

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 10.6 | 28 | 290 | 2.7 | -8.1 | 3.1 | 5 | C |
| 2 | | | | | 10.9 | 6 | 243 | -3.8 | -7.6 | 0.0 | 6 | C |
| 3 | | | | | 10.9 | -10 | 207 | -9.4 | -4.7 | -2.2 | 2 | C |
| 4 | | | | | 11.2 | 5 | 208 | -8.9 | -4.8 | 0.7 | 4 | C |
| 5 | | | | | 8.6 | 31 | 212 | -4.8 | -2.8 | 3.5 | 5 | C |
| 6 | | | | | 10.5 | -41 | 330 | 4.8 | -3.2 | -4.4 | 7 | C |
| 7 | | | | | 10.5 | -24 | 271 | 0.2 | -10.0 | -2.6 | 2 | C |
| 8 | | | | | 10.6 | -23 | 272 | 0.3 | -10.1 | -2.0 | 2 | C |
| 9 | | | | | 10.3 | -29 | 279 | 1.4 | -9.7 | -2.7 | 1 | C |
| 10 | | | | | 10.5 | -12 | 277 | 0.9 | -7.9 | 0.4 | 6 | C |
| 11 | | | | | 10.8 | 29 | 287 | 2.7 | -7.2 | 7.3 | 1 | C |
| 12 | | | | | 10.7 | 38 | 280 | 1.5 | -6.2 | 8.2 | 2 | C |
| 13 | | | | | 11.9 | 15 | 303 | 6.3 | -8.6 | 5.3 | 0 | C |
| 14 | | | | | | | | | | | | |
| 15 | | | | | 13.3 | 29 | 301 | 6.0 | -8.8 | 7.9 | 1 | C |
| 16 | | | | | 14.1 | 45 | 298 | 4.6 | -7.6 | 10.6 | 2 | C |
| 17 | | | | | 14.9 | 59 | 297 | 3.4 | -6.2 | 12.8 | 2 | C |
| 18 | | | | | 15.7 | 78 | 282 | 0.7 | -3.2 | 15.2 | 2 | C |
| 19 | | | | | 15.8 | 75 | 141 | -3.1 | 1.8 | 15.4 | 1 | C |
| 20 | | | | | 16.6 | 64 | 46 | 5.1 | 3.9 | 15.3 | 0 | C |
| 21 | | | | | 16.5 | 73 | 87 | 0.2 | 2.7 | 16.1 | 2 | C |
| 22 | | | | | 16.8 | 71 | 119 | -2.7 | 2.2 | 16.4 | 2 | C |
| 23 | | | | | 17.5 | 64 | 102 | -1.6 | 4.7 | 16.6 | 2 | C |
| 24 | | | | | 17.1 | 57 | 105 | -2.4 | 6.5 | 15.6 | 0 | C |

DEC. 16, 1982 350

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 17.6 | 56 | 92 | -0.4 | 7.5 | 15.8 | 2 | C |
| 2 | | | | | 17.7 | 49 | 94 | -0.8 | 9.7 | 14.6 | 2 | C |
| 3 | | | | | 18.4 | 47 | 92 | -0.4 | 11.4 | 14.4 | 2 | C |
| 4 | | | | | 19.1 | 44 | 99 | -2.2 | 13.1 | 13.6 | 1 | C |
| 5 | | | | | 19.2 | 27 | 95 | -1.4 | 17.3 | 8.1 | 2 | C |
| 6 | | | | | 18.7 | 22 | 94 | -1.2 | 17.8 | 5.1 | 2 | C |
| 7 | | | | | 18.4 | 15 | 97 | -2.1 | 18.1 | 1.9 | 1 | C |
| 8 | | | | | 17.9 | 10 | 95 | -1.5 | 17.8 | -0.6 | 1 | C |
| 9 | | | | | 17.4 | 8 | 94 | -1.2 | 17.3 | -1.6 | 1 | C |
| 10 | | | | | 17.2 | 6 | 96 | -1.9 | 16.8 | -2.6 | 1 | C |
| 11 | | | | | 16.9 | 5 | 93 | -0.8 | 16.6 | -3.0 | 2 | C |
| 12 | | | | | 16.4 | -11 | 89 | 0.4 | 14.8 | -6.9 | 1 | C |
| 13 | | | | | 15.6 | -19 | 88 | 0.6 | 13.3 | -8.2 | 0 | C |
| 14 | | | | | 15.0 | -23 | 83 | 1.7 | 12.2 | -8.4 | 1 | C |
| 15 | | | | | 14.4 | -30 | 84 | 1.4 | 11.2 | -9.0 | 1 | C |
| 16 | | | | | 13.8 | -23 | 98 | -1.7 | 11.4 | -6.1 | 4 | C |
| 17 | | | | | 13.6 | -23 | 101 | -2.5 | 12.0 | -5.8 | 1 | C |
| 18 | | | | | 12.9 | -32 | 100 | -1.9 | 10.8 | -6.7 | 1 | C |
| 19 | | | | | 12.4 | -41 | 94 | -0.7 | 9.9 | -7.5 | 0 | C |
| 20 | | | | | 12.2 | -45 | 103 | -1.9 | 9.2 | -7.7 | 1 | C |
| 21 | | | | | 11.8 | -37 | 99 | -1.4 | 10.1 | -5.7 | 1 | C |
| 22 | | | | | 11.8 | -36 | 108 | -2.9 | 10.0 | -5.2 | 2 | C |
| 23 | | | | | 11.9 | -43 | 98 | -1.1 | 9.7 | -6.4 | 2 | C |
| 24 | | | | | 11.9 | -49 | 97 | -0.9 | 9.1 | -7.5 | 1 | C |

DEC. 17, 1982 351

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 12.1 | -54 | 90 | 0.0 | 8.5 | -8.6 | 1 | C |
| 2 | | | | | 12.0 | -66 | 95 | -0.4 | 6.2 | -10.1 | 2 | C |
| 3 | | | | | 11.7 | -76 | 89 | 0.0 | 3.8 | -11.0 | 1 | C |
| 4 | | | | | 11.5 | -72 | 98 | -0.5 | 3.8 | -10.7 | 1 | C |
| 5 | | | | | 11.4 | -79 | 103 | -0.5 | 1.7 | -11.1 | 2 | C |
| 6 | | | | | 11.4 | -79 | 134 | -1.6 | 0.6 | -11.2 | 1 | C |
| 7 | | | | | 11.3 | -86 | 145 | -0.6 | -1.3 | -11.2 | 1 | C |
| 8 | | | | | 14.3 | -89 | 264 | -0.0 | -3.1 | -13.8 | 6 | C |
| 9 | | | | | 25.4 | -75 | 321 | 5.1 | -9.5 | -22.8 | 3 | J |
| 10 | | | | | 19.5 | -42 | 292 | 5.2 | -15.4 | -8.9 | 6 | J |
| 11 | | | | | 27.1 | -37 | 94 | -1.5 | 16.8 | -21.1 | 2 | J |
| 12 | 493 | 41.1 | 85 | J | 24.0 | -29 | 99 | -3.2 | 17.0 | -15.9 | 5 | J |
| 13 | 478 | 28.3 | 94 | J | 22.0 | -39 | 110 | -5.2 | 11.4 | -15.2 | 10 | J |
| 14 | | | | | 21.8 | -14 | 111 | -7.4 | 18.0 | -8.6 | 4 | J |
| 15 | | | | | 23.7 | 13 | 120 | -9.3 | 16.9 | 2.1 | 13 | C |
| 16 | | | | | 25.0 | 64 | 127 | -6.5 | 10.5 | 21.2 | 5 | J |
| 17 | 486 | 14.3 | 435 | J | 25.1 | 20 | 126 | -11.1 | 15.5 | 6.3 | 15 | J |
| 18 | 491 | 11.8 | 275 | J | 25.1 | 30 | 130 | -13.0 | 15.3 | 11.9 | 9 | J |
| 19 | 521 | 15.8 | 246 | J | 18.8 | 0 | 127 | -9.1 | 12.0 | 0.8 | 11 | J |
| 20 | 497 | 56.7 | 86 | J | 15.6 | -43 | 285 | 2.8 | -9.2 | -11.0 | 6 | J |
| 21 | | | | | 16.7 | 66 | 125 | -3.3 | 2.8 | 13.5 | 8 | C |
| 22 | | | | | 13.9 | 27 | 101 | -2.3 | 10.3 | 7.8 | 4 | C |
| 23 | | | | | 14.7 | 41 | 100 | -1.3 | 6.3 | 8.3 | 10 | C |
| 24 | | | | | 13.0 | 18 | 74 | 2.6 | 8.5 | 4.8 | 7 | C |

DEC. 18, 1982 352

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 579 | 58.6 | 105 | J | 12.4 | -11 | 87 | 0.6 | 11.7 | -0.3 | 4 | J |
| 2 | | | | | 10.8 | -16 | 62 | 4.8 | 9.4 | -1.7 | 1 | J |
| 3 | 567 | 68.2 | 74 | J | 7.5 | 16 | 62 | 2.3 | 4.3 | 1.8 | 6 | J |
| 4 | 586 | 47.0 | 87 | J | 6.7 | -2 | 77 | 0.6 | 2.4 | 0.0 | 6 | J |
| 5 | 589 | 36.6 | 87 | J | 7.0 | 26 | 354 | 4.8 | -0.5 | 2.4 | 5 | J |
| 6 | 569 | 37.1 | 110 | J | 7.4 | 24 | 6 | 6.0 | 0.9 | 2.6 | 3 | J |
| 7 | 577 | 39.0 | 110 | J | 5.9 | 17 | 348 | 3.0 | -0.5 | 1.0 | 5 | J |
| 8 | 614 | 43.6 | 108 | J | 6.7 | -31 | 339 | 4.2 | -2.1 | -2.4 | 4 | J |
| 9 | | | | | 10.4 | -72 | 284 | 0.8 | -5.1 | -8.8 | 3 | J |
| 10 | | | | | 10.0 | -62 | 285 | 1.2 | -6.5 | -7.5 | 1 | J |
| 11 | 656 | 57.4 | 205 | J | 9.4 | -68 | 296 | 1.4 | -4.6 | -6.9 | 4 | J |
| 12 | 610 | 38.0 | 151 | J | 10.9 | -31 | 304 | 4.4 | -7.5 | -3.1 | 6 | J |
| 13 | 625 | 44.3 | 62 | J | 12.2 | -11 | 282 | 1.6 | -7.8 | 0.1 | 9 | J |
| 14 | 637 | 37.0 | 49 | J | 12.4 | -13 | 292 | 4.3 | -10.9 | -0.7 | 4 | J |
| 15 | | | | | 12.4 | -35 | 295 | 4.2 | -9.7 | -5.7 | 3 | C |
| 16 | | | | | 12.2 | -26 | 299 | 4.9 | -9.4 | -4.2 | 4 | C |
| 17 | | | | | 12.0 | -13 | 306 | 6.8 | -9.5 | -2.4 | 1 | C |
| 18 | 915 | 1.1 | 101 | J | 12.5 | 2 | 310 | 8.0 | -9.6 | 0.2 | 1 | J |
| 19 | 637 | 14.3 | 48 | J | 12.2 | -11 | 308 | 7.2 | -9.0 | -2.9 | 2 | J |
| 20 | | | | | 12.7 | 7 | 311 | 8.2 | -9.6 | 0.4 | 2 | J |
| 21 | 554 | 15.1 | 32 | J | 13.0 | 23 | 317 | 8.7 | -8.8 | 3.7 | 1 | J |
| 22 | 554 | 26.5 | 29 | J | 12.8 | 29 | 321 | 8.6 | -7.9 | 4.8 | 2 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

DEC. 19, 1982 353

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 11.6 | 64 | 339 | 4.7 | -3.6 | 9.8 | 2 | J |
| 2 | 565 | 78.4 | 42 | J | 10.2 | 54 | 13 | 5.5 | 0.1 | 7.9 | 3 | J |
| 3 | | | | | 8.2 | 39 | 29 | 5.5 | 2.5 | 5.4 | 1 | J |
| 4 | | | | | 16.9 | 34 | 34 | 11.4 | 7.3 | 9.7 | 3 | C |
| 5 | 578 | 64.5 | 108 | J | 12.4 | 24 | 11 | 9.6 | 1.9 | 4.3 | 7 | J |
| 6 | 721 | 42.7 | 126 | J | 11.7 | 30 | 116 | -3.8 | 8.1 | 4.3 | 7 | J |
| 7 | | | | | 16.6 | 65 | 103 | -1.1 | 6.2 | 9.9 | 10 | C |
| 8 | | | | | 12.1 | 38 | 196 | -5.2 | -0.7 | 4.5 | 9 | C |
| 9 | | | | | 13.7 | 29 | 199 | -8.2 | -1.8 | 5.2 | 9 | C |
| 10 | | | | | 14.3 | 26 | 113 | -3.2 | 8.3 | 2.2 | 11 | J |
| 11 | 591 | 49.9 | 200 | J | 16.8 | 19 | 116 | -5.6 | 12.2 | 1.6 | 10 | J |
| 12 | | | | | 16.9 | -43 | 334 | 5.4 | -3.8 | -4.9 | 15 | J |
| 13 | | | | | 16.5 | -26 | 301 | 7.1 | -12.9 | -4.2 | 6 | J |
| 14 | 587 | 18.8 | 43 | J | 14.0 | 7 | 279 | 2.0 | -12.2 | 3.7 | 5 | J |
| 15 | | | | | 15.3 | 35 | 286 | 3.4 | -10.7 | 10.0 | 3 | C |
| 16 | | | | | 16.4 | 41 | 302 | 6.6 | -9.7 | 11.4 | 1 | C |
| 17 | 575 | 15.4 | 62 | J | 16.5 | 53 | 317 | 7.3 | -6.5 | 13.3 | 1 | J |
| 18 | 554 | 28.6 | 38 | J | 16.1 | 68 | 337 | 5.5 | -2.8 | 14.8 | 2 | J |
| 19 | 547 | 36.5 | 46 | J | 15.0 | 66 | 330 | 5.3 | -4.1 | 13.4 | 1 | J |
| 20 | 535 | 40.2 | 44 | J | 14.6 | 61 | 333 | 6.3 | -4.7 | 12.2 | 1 | J |
| 21 | 529 | 32.1 | 50 | J | 14.8 | 75 | 20 | 3.5 | -1.0 | 13.9 | 3 | J |
| 22 | 529 | 30.7 | 27 | J | 15.7 | 75 | 25 | 3.6 | -1.1 | 15.0 | 3 | J |
| 23 | 694 | 25.0 | 238 | J | 22.4 | 69 | 78 | 1.6 | 3.4 | 21.4 | 8 | J |
| 24 | 757 | 32.5 | 106 | J | 23.0 | 75 | 81 | 0.7 | 1.0 | 17.1 | 16 | J |

# 12/20/82 – 12/31/82

DEC. 20, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 17.2 | 81 | 74 | 0.6 | -0.5 | 14.2 | 10 | J |
| 2 | 805 | 19.5 | 144 | J | 11.6 | -7 | 144 | -1.7 | 1.2 | -0.1 | 13 | J |
| 3 | 626 | 62.0 | 226 | J | 23.0 | 52 | 51 | 8.6 | 8.7 | 18.6 | 6 | J |
| 4 | | | | | 17.0 | 23 | 66 | 5.4 | 12.1 | 6.4 | 8 | C |
| 5 | 604 | 32.2 | 137 | J | 18.0 | 31 | 80 | 2.4 | 13.8 | 8.3 | 8 | J |
| 6 | 607 | 39.5 | 123 | J | 16.9 | -1 | 79 | 3.0 | 15.5 | -1.3 | 6 | J |
| 7 | 631 | 46.8 | 217 | J | 13.4 | 51 | 106 | -1.4 | 5.7 | 5.7 | 11 | J |
| 8 | 639 | 42.8 | 242 | J | 9.6 | -25 | 309 | 4.3 | -5.7 | -2.2 | 6 | J |
| 9 | 577 | 36.3 | 159 | J | 7.9 | 5 | 195 | -5.6 | -1.4 | 0.8 | 5 | J |
| 10 | 566 | 40.4 | 173 | J | 7.0 | -9 | 194 | -6.5 | -1.8 | -0.7 | 2 | J |
| 11 | | | | | 8.4 | -72 | 232 | -1.5 | -3.4 | -6.6 | 3 | C |
| 12 | | | | | 9.2 | -66 | 47 | 2.6 | 0.9 | -8.6 | 1 | C |
| 13 | | | | | 8.7 | -23 | 60 | 3.9 | 6.0 | -4.6 | 2 | J |
| 14 | 625 | 23.0 | 48 | J | 8.6 | -53 | 49 | 3.4 | 2.7 | -7.3 | 1 | J |
| 15 | 600 | 13.8 | 43 | J | 8.3 | -71 | 21 | 2.5 | 0.0 | -7.7 | 2 | J |
| 16 | 589 | 25.2 | 42 | J | 7.5 | -71 | 294 | 0.9 | -2.4 | -6.2 | 4 | J |
| 17 | 572 | 31.5 | 41 | J | 5.3 | -76 | 230 | -0.5 | -0.7 | -3.2 | 4 | J |
| 18 | 577 | 29.8 | 83 | J | 7.6 | -62 | 262 | -0.4 | -2.5 | -5.1 | 5 | J |
| 19 | 595 | 6.4 | 49 | J | 10.4 | 5 | 245 | -4.3 | -9.3 | 0.1 | 2 | J |
| 20 | 626 | 11.6 | 58 | J | 9.8 | 10 | 248 | -3.5 | -8.9 | 0.5 | 2 | J |
| 21 | 581 | 28.2 | 43 | J | 9.0 | -46 | 163 | -3.1 | 1.5 | -3.2 | 8 | J |
| 22 | 591 | 22.7 | 67 | J | 7.2 | -20 | 79 | 0.8 | 4.3 | -0.7 | 6 | J |
| 23 | 635 | 3.6 | 107 | J | 5.3 | -2 | 252 | -1.5 | -4.3 | -1.1 | 3 | J |
| 24 | | | | | 6.0 | -14 | 122 | -2.9 | 4.9 | -0.4 | 2 | J |

DEC. 22, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 543 | 19.1 | 51 | J | 11.7 | 45 | 129 | -5.0 | 7.4 | 6.9 | 3 | J |
| 9 | 553 | 19.1 | 53 | J | 11.1 | 57 | 121 | -2.9 | 6.4 | 7.6 | 4 | J |
| 10 | 570 | 17.2 | 77 | J | 10.8 | 73 | 103 | -0.6 | 4.7 | 8.6 | 4 | J |
| 11 | 604 | 18.2 | 102 | J | 9.4 | 45 | 345 | 5.2 | -0.2 | 5.5 | 6 | J |
| 12 | 591 | 12.7 | 58 | J | 9.6 | -17 | 349 | 9.0 | -2.3 | -2.4 | 1 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 532 | 19.2 | 88 | J | 9.3 | -11 | 154 | -7.9 | 3.8 | -1.9 | 2 | J |
| 17 | 536 | 20.3 | 61 | J | 9.7 | -19 | 159 | -6.3 | 2.4 | -2.3 | 7 | J |
| 18 | 536 | 21.6 | 71 | J | 9.8 | 10 | 125 | -5.4 | 7.6 | 2.1 | 2 | J |
| 19 | 572 | 13.1 | 58 | J | 10.4 | 18 | 111 | -3.5 | 8.7 | 4.1 | 2 | J |
| 20 | 531 | 12.1 | 49 | J | 10.5 | 12 | 114 | -4.1 | 8.7 | 3.4 | 2 | J |
| 21 | 545 | 12.7 | 56 | J | 10.5 | -1 | 115 | -4.3 | 9.0 | 1.5 | 3 | J |
| 22 | | | | | | | | | | | | |
| 23 | 564 | 15.0 | 108 | J | 8.4 | 10 | 106 | -2.2 | 7.2 | 3.1 | 2 | J |
| 24 | 577 | 13.1 | 140 | J | 8.1 | 12 | 102 | -1.5 | 6.6 | 3.1 | 3 | J |

DEC. 24, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 9.5 | 22 | 117 | -4.0 | 6.8 | 5.1 | 1 | J |
| 2 | 647 | 4.8 | 159 | J | 8.2 | -16 | 116 | -3.5 | 7.4 | -0.9 | 1 | J |
| 3 | 578 | 8.5 | 118 | J | 8.3 | -9 | 134 | -5.4 | 5.7 | -0.4 | 3 | J |
| 4 | 600 | 7.6 | 103 | J | 8.0 | 16 | 128 | -4.6 | 5.7 | 2.7 | 2 | J |
| 5 | 574 | 11.7 | 161 | J | 8.0 | 22 | 116 | -3.1 | 6.3 | 3.0 | 2 | J |
| 6 | 575 | 6.8 | 133 | J | 8.5 | 16 | 104 | -1.9 | 7.5 | 1.9 | 3 | J |
| 7 | | | | | 8.4 | 37 | 122 | -3.5 | 6.1 | 4.5 | 1 | J |
| 8 | 589 | 8.1 | 102 | J | 8.4 | -21 | 117 | -3.1 | 5.6 | -3.4 | 4 | J |
| 9 | 533 | 12.5 | 99 | J | 8.3 | 9 | 152 | -6.3 | 3.5 | 0.5 | 4 | J |
| 10 | 552 | 9.6 | 58 | J | 8.2 | -9 | 136 | -5.2 | 4.7 | -2.1 | 4 | J |
| 11 | 518 | 8.8 | 61 | J | 8.6 | 0 | 112 | -2.5 | 6.0 | -1.2 | 5 | J |
| 12 | 601 | 14.2 | 96 | J | 8.1 | -23 | 94 | -0.5 | 6.0 | -4.0 | 3 | J |
| 13 | 594 | 14.5 | 152 | J | 7.7 | 6 | 99 | -1.0 | 6.5 | -0.4 | 4 | J |
| 14 | | | | | 7.5 | -14 | 116 | -2.9 | 5.7 | -2.4 | 3 | J |
| 15 | 538 | 13.9 | 87 | J | 7.2 | -18 | 104 | -1.5 | 5.7 | -2.5 | 3 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | 6.1 | 13 | 97 | -0.6 | 5.0 | 1.8 | 3 | J |
| 20 | 549 | 15.4 | 114 | J | 5.4 | -11 | 121 | -2.1 | 3.5 | -0.2 | 3 | J |
| 21 | 561 | 13.5 | 76 | J | 5.9 | 10 | 76 | 1.2 | 4.5 | 1.8 | 3 | J |
| 22 | 534 | 16.2 | 67 | J | 5.4 | 7 | 125 | -2.4 | 3.3 | 1.3 | 3 | J |
| 23 | 546 | 17.7 | 90 | J | 5.4 | -27 | 105 | -1.0 | 4.1 | -1.0 | 3 | J |
| 24 | 519 | 14.4 | 52 | J | 5.5 | 16 | 117 | -2.1 | 3.7 | 2.3 | 3 | J |

DEC. 30, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 652 | 4.0 | 173 | J | 8.7 | -13 | 319 | 6.0 | -4.6 | -3.1 | 3 | J |
| 2 | 642 | 2.7 | 112 | J | 8.5 | -11 | 313 | 5.4 | -5.3 | -2.9 | 2 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 593 | 4.7 | 124 | J | 6.8 | -22 | 342 | 4.2 | -1.6 | -1.6 | 5 | J |
| 10 | 570 | 5.3 | 105 | J | 6.7 | 15 | 302 | 2.7 | -4.0 | 2.0 | 4 | J |
| 11 | | | | | 6.4 | -16 | 359 | 6.0 | -0.4 | -1.7 | 2 | J |
| 12 | 619 | 3.0 | 164 | J | 6.7 | -15 | 357 | 6.2 | -0.6 | -1.6 | 2 | J |
| 13 | | | | | 6.6 | 0 | 358 | 6.5 | -0.2 | 0.0 | 1 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 558 | 4.3 | 103 | J | 6.2 | -13 | 341 | 5.2 | -1.6 | -1.4 | 2 | J |
| 19 | 548 | 4.2 | 135 | J | 6.5 | 2 | 359 | 6.4 | -0.1 | 0.2 | 1 | J |
| 20 | 535 | 4.3 | 120 | J | 6.0 | -26 | 333 | 2.6 | -1.0 | -1.6 | 5 | J |
| 21 | 515 | 2.4 | 74 | J | 5.9 | 12 | 343 | 5.3 | -1.9 | 0.8 | 1 | J |
| 22 | 530 | 3.0 | 83 | J | 6.3 | 14 | 338 | 5.5 | -2.5 | 0.8 | 2 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

DEC. 21, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 574 | 4.8 | 60 | J | 7.0 | -12 | 116 | -2.9 | 6.1 | -0.2 | 2 | J |
| 2 | 565 | 4.2 | 67 | J | 7.6 | -1 | 115 | -3.0 | 6.3 | 0.9 | 3 | J |
| 3 | 623 | 3.3 | 75 | J | 8.1 | -23 | 129 | -2.9 | 3.8 | -1.5 | 6 | J |
| 4 | 600 | 3.9 | 118 | J | 9.3 | -25 | 133 | -5.1 | 5.7 | -3.2 | 4 | J |
| 5 | 589 | 4.2 | 101 | J | 8.8 | -2 | 122 | -4.5 | 7.2 | -0.3 | 3 | J |
| 6 | 559 | 3.9 | 57 | J | 10.0 | -41 | 155 | -6.5 | 2.6 | -6.4 | 3 | J |
| 7 | 586 | 2.5 | 65 | J | 9.6 | -19 | 148 | -6.3 | 3.6 | -3.0 | 6 | J |
| 8 | 581 | 3.8 | 70 | J | 9.2 | -57 | 157 | -4.1 | 0.6 | -7.0 | 4 | J |
| 9 | 579 | 3.3 | 79 | J | 8.6 | -55 | 153 | -4.1 | 0.8 | -6.9 | 3 | J |
| 10 | 611 | 3.3 | 58 | J | 8.2 | -63 | 172 | -3.6 | -1.0 | -7.0 | 2 | J |
| 11 | 564 | 2.5 | 62 | J | 8.1 | -57 | 172 | -4.3 | -0.9 | -6.6 | 2 | J |
| 12 | 557 | 6.5 | 47 | J | 8.1 | -40 | 159 | -5.6 | 1.0 | -5.4 | 2 | J |
| 13 | 532 | 2.9 | 91 | J | 8.0 | -45 | 156 | -5.1 | 1.2 | -5.9 | 1 | J |
| 14 | 548 | 2.3 | 55 | J | 7.7 | -53 | 144 | -3.7 | 1.7 | -6.4 | 1 | J |
| 15 | 528 | 5.6 | 47 | J | 7.3 | -34 | 157 | -5.3 | 1.8 | -4.1 | 2 | J |
| 16 | 541 | 4.8 | 87 | J | 7.3 | -40 | 153 | -4.8 | 2.2 | -4.7 | 1 | J |
| 17 | 576 | 4.0 | 56 | J | 7.4 | -52 | 124 | -2.5 | 3.7 | -5.8 | 1 | J |
| 18 | | | | | 7.6 | -59 | 130 | -2.4 | 3.2 | -6.1 | 1 | C |
| 19 | | | | | 7.3 | -68 | 101 | -0.4 | 2.8 | -5.4 | 4 | C |
| 20 | 523 | 3.7 | 74 | J | 6.8 | -30 | 145 | -4.7 | 3.7 | -2.8 | 2 | J |
| 21 | 539 | 3.7 | 50 | J | 7.3 | -32 | 136 | -4.2 | 4.6 | -2.9 | 2 | J |
| 22 | | | | | 7.3 | -31 | 137 | -4.5 | 4.8 | -2.7 | 1 | C |
| 23 | | | | | 7.7 | -35 | 141 | -4.8 | 4.7 | -3.4 | 1 | C |
| 24 | | | | | 7.4 | -50 | 120 | -2.3 | 5.2 | -4.6 | 1 | C |

DEC. 23, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 541 | 19.8 | 104 | J | 7.7 | 21 | 114 | -2.5 | 5.0 | 3.5 | 4 | J |
| 2 | 548 | 18.1 | 147 | J | 7.5 | -2 | 135 | -4.9 | 4.9 | 0.6 | 3 | J |
| 3 | 495 | 19.3 | 53 | J | 7.3 | 18 | 150 | -6.0 | 3.1 | 2.7 | 1 | J |
| 4 | 558 | 16.7 | 153 | J | 7.7 | 28 | 157 | -6.2 | 2.3 | 3.8 | 1 | J |
| 5 | 519 | 21.9 | 66 | J | 6.3 | 31 | 121 | -1.1 | 1.8 | 1.3 | 6 | J |
| 6 | 546 | 26.9 | 114 | J | 5.0 | 5 | 64 | 1.5 | 3.1 | 0.2 | 4 | J |
| 7 | 532 | 24.3 | 91 | J | 5.4 | -17 | 72 | 1.2 | 3.7 | -1.6 | 3 | J |
| 8 | 516 | 23.8 | 55 | J | 7.4 | 3 | 90 | 0.0 | 6.3 | -0.6 | 4 | J |
| 9 | 515 | 28.2 | 44 | J | 7.6 | -18 | 67 | 2.5 | 5.3 | -3.1 | 4 | J |
| 10 | 514 | 26.3 | 52 | J | 7.6 | 0 | 84 | 0.7 | 6.5 | -1.3 | 3 | J |
| 11 | 513 | 30.2 | 58 | J | 7.9 | 9 | 75 | 1.9 | 7.1 | -0.3 | 3 | J |
| 12 | 498 | 32.2 | 29 | J | 10.0 | -22 | 89 | 0.2 | 8.1 | -5.3 | 2 | J |
| 13 | 505 | 40.8 | 34 | J | 10.3 | -21 | 91 | -0.2 | 8.6 | -5.1 | 2 | J |
| 14 | 503 | 38.2 | 35 | J | 10.6 | -13 | 90 | 0.0 | 9.5 | -3.6 | 3 | J |
| 15 | 511 | 39.0 | 34 | J | 11.6 | -24 | 85 | 0.9 | 9.8 | -5.6 | 2 | J |
| 16 | | | | | 11.6 | -46 | 69 | 2.7 | 6.6 | -8.0 | 5 | J |
| 17 | 509 | 57.3 | 40 | J | 12.8 | -14 | 93 | -0.6 | 11.4 | -2.8 | 5 | J |
| 18 | 545 | 30.2 | 135 | J | 11.5 | 2 | 106 | -2.6 | 8.9 | 0.9 | 7 | J |
| 19 | 537 | 16.6 | 91 | J | 11.5 | 9 | 109 | -3.0 | 8.4 | 2.4 | 7 | J |
| 20 | 572 | 8.1 | 112 | J | 11.2 | -10 | 110 | -3.1 | 8.6 | -0.3 | 6 | J |
| 21 | 547 | 13.4 | 204 | J | 11.0 | 8 | 117 | -4.2 | 7.8 | 2.8 | 6 | J |
| 22 | 559 | 9.9 | 247 | J | 10.9 | 5 | 112 | -3.7 | 8.7 | 2.8 | 4 | J |
| 23 | | | | | | | | | | | | |
| 24 | 576 | 14.2 | 113 | J | 9.7 | 6 | 110 | -2.7 | 7.1 | 2.5 | 5 | J |

DEC. 29, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 513 | 6.2 | 150 | J | | | | | | | | |
| 8 | 530 | 8.6 | 214 | J | | | | | | | | |
| 9 | 540 | 12.1 | 162 | J | | | | | | | | |
| 10 | 584 | 14.5 | 85 | J | 6.7 | -69 | 78 | 0.4 | 1.1 | -5.5 | 4 | J |
| 11 | 521 | 5.7 | 52 | J | 9.0 | -22 | 324 | 6.2 | -4.9 | -2.3 | 3 | J |
| 12 | 594 | 6.0 | 243 | J | | | | | | | | |
| 13 | 570 | 5.1 | 148 | J | 10.5 | -9 | 326 | 7.9 | -5.5 | -0.8 | 3 | J |
| 14 | | | | | 10.0 | -14 | 333 | 8.4 | -4.5 | -1.9 | 1 | J |
| 15 | 669 | 4.3 | 130 | J | | | | | | | | |
| 16 | 696 | 5.6 | 355 | J | 7.0 | 23 | 314 | 3.5 | -3.6 | 2.2 | 4 | J |
| 17 | 669 | 4.3 | 172 | J | 6.4 | -3 | 343 | 4.8 | -1.4 | -0.3 | 4 | J |
| 18 | 709 | 4.8 | 210 | J | 7.0 | 47 | 337 | 2.6 | -1.4 | 2.9 | 6 | J |
| 19 | 705 | 4.3 | 250 | J | 7.1 | 24 | 318 | 4.0 | -3.9 | 1.8 | 4 | J |
| 20 | 695 | 3.4 | 177 | J | 7.0 | 7 | 322 | 4.5 | -3.6 | -0.0 | 4 | J |
| 21 | | | | | 6.8 | 7 | 327 | 5.6 | -3.7 | -0.1 | 1 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

DEC. 31, 1982

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 516 | 4.0 | 116 | J | 5.3 | -63 | 270 | -0.0 | -0.7 | -3.2 | 4 | J |
| 2 | 519 | 5.2 | 140 | J | 5.4 | -48 | 277 | 0.4 | -2.3 | -4.3 | 2 | J |
| 3 | 502 | 4.1 | 118 | J | 4.7 | -15 | 313 | 2.1 | -2.1 | -1.3 | 3 | J |
| 4 | | | | | 4.9 | -28 | 298 | 1.7 | -2.8 | -2.3 | 3 | J |
| 5 | | | | | 4.9 | -12 | 295 | 1.8 | -3.8 | -1.2 | 2 | J |
| 6 | 479 | 5.2 | 243 | J | 5.2 | -20 | 301 | 2.4 | -4.0 | -1.8 | 2 | J |
| 7 | 475 | 3.9 | 65 | J | 5.1 | -15 | 280 | 0.8 | -4.4 | -1.0 | 2 | J |
| 8 | 436 | 2.9 | 42 | J | 5.6 | -2 | 329 | 4.4 | -2.6 | 0.0 | 2 | J |
| 9 | | | | | 6.1 | -11 | 335 | 5.3 | -2.6 | -0.8 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 427 | 4.1 | 52 | J | 6.1 | -3 | 295 | 2.4 | -5.2 | 0.3 | 2 | J |
| 14 | | | | | 6.0 | 4 | 289 | 1.9 | -5.5 | 0.9 | 1 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 414 | 4.7 | 68 | J | 4.5 | 5 | 294 | 1.6 | -3.6 | -0.1 | 2 | J |
| 19 | 442 | 5.2 | 63 | J | 4.6 | 25 | 234 | -2.2 | -3.3 | 1.2 | 2 | J |
| 20 | 440 | 4.2 | 37 | J | 5.2 | 22 | 255 | -1.1 | -4.5 | 0.8 | 2 | J |
| 21 | 402 | 5.9 | 41 | J | 6.0 | -7 | 304 | 3.2 | -4.4 | -1.9 | 1 | J |
| 22 | 400 | 5.4 | 44 | J | 5.8 | -10 | 308 | 3.3 | -3.8 | -2.1 | 2 | J |
| 23 | 416 | 4.7 | 71 | J | 5.8 | -4 | 300 | 2.8 | -4.6 | -1.8 | 1 | J |
| 24 | 426 | 5.2 | 31 | J | 6.3 | 2 | 290 | 2.1 | -5.5 | -1.4 | 1 | J |

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01/01/83 – 01/12/83

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HR    VEL   DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF      VEL   DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000  SC  MAGN LAT LON                   SC                 1000  SC  MAGN LAT LON                   SC

                              JAN.  1, 1983               1                                 JAN.  2, 1983               2

 1
 2
 3   410   7.9   29  J   8.3 -14 273   0.3  -5.6  -2.7  5  J
 4   423   8.6   33  J   7.7 -45 259  -1.0  -4.3  -6.0  2  J
 5   406   5.5   20  J   8.8 -50 274   0.4  -4.9  -7.1  2  J
 6
 7                       8.0  -9 251  -1.4  -3.9  -0.6  7  J     430   4.2  261  J   7.8   7 321   5.9  -4.8   1.0  1  J
 8                       8.6 -12 330   7.0  -4.2  -1.4  2  J     448  15.7   57  J   3.6  38 292   0.8  -1.9   1.8  3  J
 9                       9.0 -20 329   7.2  -4.7  -2.6  1  J     449  19.3   76  J   4.1  33 200  -2.6  -0.8   1.9  3  J
10                                                               424  14.8   86  J   5.0  24 168  -4.2   1.1   1.8  2  J
11
12                       9.6   5 322   7.3  -5.6   1.5  3  J                         6.4   2 133  -4.2   4.5  -0.3  2  J
13                       9.2  23 339   6.9  -2.3   3.4  4  J     480  41.6   37  J   7.4 -17 135  -4.8   4.6  -2.5  2  J
14   509   5.9   92  J   8.7  31 100  -1.2   7.3   3.8  3  J                         4.5  -7 143  -3.1   2.3  -0.6  3  J
15                       8.4  12 111  -2.3   6.0   1.2  5  J                         3.8  24 131  -2.2   2.5   1.4  2  J
16
17
18
19
20                                                               425   8.8   56  J   9.5  -2 131  -6.1   6.9   1.3  2  J
21                                                               472  17.8   61  J   8.9 -13 112  -2.9   7.4   0.2  4  J
22   485  20.6   48  J   7.1  63 359   3.1  -1.8   5.8  2  J     483  14.2   40  J  11.3  27 133  -6.8   5.5   7.0  2  J
23   482   7.9  119  J   8.3  40 325   4.9  -4.8   3.8  3  J     484  10.2   52  J  11.1  13 128  -6.5   7.2   4.9  2  J
24   476   7.0   90  J   7.4  55 315   3.0  -4.6   4.8  1  J

                              JAN.  3, 1983               3                                 JAN.  4, 1983               4

 1   484   8.6   62  J  11.6   6 125  -7.1   8.1   3.7  2  J     488  13.8   61  J   6.6   9 110  -2.0   5.0   2.6  3  J
 2   472  20.2   58  J   9.8  -6 111  -1.8   9.3   1.5  2  J
 3   445  14.0   86  J   9.8   1 130  -6.0   7.0   1.8  3  J
 4   427   8.3  157  J  10.6   8 138  -7.7   6.5   2.6  2  J
 5   420   8.0   69  J   9.9   2 144  -7.4   5.3   0.9  4  J
 6   402   7.0   60  J   9.9   5 163  -9.2   2.8   1.0  2  J     478  18.3   69  J   5.5 -14 162  -4.8   1.6  -1.2  2  J
 7   426  12.0   81  J   7.1 -47 178  -4.4   0.1  -4.8  3  J     466  11.7   56  J   5.2  -8 143  -3.8   2.9  -0.7  2  J
 8   433  12.3  142  J   7.3 -61 124  -1.8   2.3  -5.8  3  J     486  19.2   48  J   4.6 -47  74   0.8   2.5  -3.1  2  J
 9   450  17.0   99  J   7.0 -41 112  -1.6   3.6  -4.0  4  J
10   421  12.4  101  J   6.5 -42 148  -3.8   1.9  -4.3  2  J
11   426  14.1  154  J   7.9 -45 156  -4.7   1.5  -5.4  3  J
12   415  10.4   43  J  10.4 -41 147  -6.4   3.4  -7.0  3  J     472  14.5   38  J   5.8 -11  86   0.4   5.0  -1.5  3  J
13   442  15.8   67  J   9.7 -36 163  -7.0   1.7  -5.5  3  J     449   8.3   82  J   6.1 -20  68   2.0   4.8  -2.3  2  J
14                                                               477   9.9  128  J   5.9 -25  86   0.3   4.8  -2.5  2  J
15
16   505  30.2   93  J   7.0 -35 125  -3.0   4.4  -3.5  3  J
17   516  28.4  126  J   5.2  48 242  -1.1  -2.2   2.3  4  J
18   551  22.9  121  J   6.7  31 198  -4.2  -1.7   2.4  4  J
19   547  22.2   80  J   7.0  60 336   2.1  -1.7   3.7  5  J     421   8.6   60  J   6.0  46  65   1.2   1.9   3.3  5  J
20   542  18.0  114  J   6.4  16  99  -0.9   5.1   2.9  3  J     441   8.2   76  J   5.5  13  41   3.2   2.5   1.6  3  J
21                       6.4  25 126  -3.3   3.7   3.8  2  J     427   9.6   58  J   5.6 -80 121  -0.4   1.9  -4.2  3  J
22                       6.6  11 114  -2.4   4.7   2.6  3  J     485  19.9   52  J   7.8  21  30   6.1   2.5   3.6  2  J
23   527   7.1  240  J   7.3  15 139  -4.9   3.5   3.0  3  J     413   8.3   47  J   7.3  11  48   4.6   4.4   2.9  2  J
24   537  14.5   95  J   5.1  17  39   1.4   0.9   0.9  5  J     411   8.5   52  J   7.3  16  67   2.6   5.3   3.8  2  J

                              JAN.  5, 1983               5                                 JAN.  6, 1983               6

 1   405   7.9   45  J   7.9   4  72   2.4   6.8   2.7  2  J
 2   398   6.9   38  J   6.8   1  79   1.2   6.0   1.9  2  J     353   6.8   73  J   5.0  23 118  -2.1   3.3   3.0  1  J
 3                       7.1   7 141  -5.2   3.9   1.8  2  J     347   5.5   37  J   4.6  16 144  -3.2   2.0   1.7  2  J
 4   340   7.0   22  J   7.2  23 137  -4.6   3.8   3.4  2  J     356   4.9   34  J   4.2   4 171  -3.9   0.6   0.4  1  J
 5   389   7.3   48  J   6.7  35 104  -1.2   4.4   4.1  2  J
 6   389   7.3   46  J   7.0  12 113  -2.5   5.8   1.7  2  J     343   6.8   51  J   4.5  31 147  -2.9   1.8   2.2  2  J
 7   389   8.4   59  J   8.1  23 110  -2.4   6.6   3.0  3  J     335   6.0   26  J   4.6   6 169  -3.8   0.7   0.4  2  J
 8   384   8.9   35  J   8.1 -11 107  -2.2   7.2  -1.8  3  J     361   6.8   30  J   4.6 -15  85   0.3   3.3  -1.0  3  J
 9   397   9.3   37  J   8.0 -19 103  -1.6   6.6  -2.9  3  J     363   7.0   38  J   4.2  33  98  -0.4   2.6   1.5  3  J
10   391  11.3   55  J   7.1 -25  90   0.0   4.6  -2.8  5  J     357   7.3   23  J   4.6  26 117  -1.8   3.7   1.6  1  J
11   392  10.2   48  J   6.6 -24  97  -0.6   4.9  -2.8  3  J     356   7.8   38  J   4.8  26 114  -1.6   3.8   1.6  2  J
12   385   9.7   33  J   6.2 -30 106  -1.3   4.2  -3.1  3  J                         5.3 -13 111  -1.9   4.7  -1.6  1  J
13                                                                                   5.7 -11 103  -1.3   5.4  -1.5  0  J
14                                                                                   5.9 -15 106  -1.5   5.3  -1.7  1  J
15
16
17
18
19                       6.1  38 165  -3.9   0.4   3.3  3  J
20   374   7.7   24  J   5.6  20  95  -0.4   4.2   2.9  2  J
21                       5.8  14 102  -1.1   4.8   2.9  1  J
22
23                       5.7  22  82   0.7   4.1   3.6  2  J
24

                              JAN. 11, 1983              11                                 JAN. 12, 1983              12

 1                                                                                   9.4  35 351   6.7  -2.7   4.1  5  J
 2                                                               587  51.4  303  J   8.5  41  42   4.2   2.0   5.9  4  J
 3                                                                                   6.4  28 349   2.2  -0.7   1.0  6  J
 4                                                                                   6.5  19 352   5.4  -1.2   1.7  3  J
 5                                                               548  24.9   50  J   6.5 -38 243  -2.2  -3.5  -4.5  4  J
 6                                                               598  29.4   48  J  10.2   0 224  -6.9  -6.6  -0.8  3  J
 7                                                               586  42.7   52  J   8.9  57 189  -4.2  -1.1   6.5  4  J
 8                                                               585  42.0   69  J   3.7  20  31   2.6   1.5   1.1  2  J
 9                                                                                   6.2  -1  28   5.1   2.7  -0.2  2  J
10
11
12                                                                                   5.2  13   2   5.1   0.2   1.2  1  J
13                                                               548  19.3   43  J   4.2   3 352   4.1  -0.6   0.2  1  J
14
15                       9.0  43 138  -3.7   3.1   4.8  6  J
16   509  56.2   62  J  10.4  76  69   0.9   1.4  10.0  3  J
17   500  29.8   65  J  10.2  68  98  -0.5   2.4   9.8  2  J     534  28.4   41  J   3.9  -5  25   3.4   1.6  -0.1  1  J
18   517  37.4   78  J   9.0  63  76   1.0   2.3   8.5  2  J     507  30.9   34  J   3.7  -5  14   3.5   0.9  -0.1  1  J
19   465  12.2   87  J  10.5  56  59   2.9   2.7   9.4  3  J     514  29.6   35  J   4.2 -10  16   4.0   1.3  -0.4  1  J
20   483  21.9   84  J  11.8  55  33   5.4   0.7   9.9  3  J                         4.0 -13  12   3.7   1.0  -0.6  1  J
21   531  38.3  126  J  11.3  48  91  -0.1   3.6   8.5  7  J     531  43.0   30  J   3.5  -7  14   3.3   0.9  -0.1  0  J
22   543  34.1  120  J  10.2  21 116  -3.3   5.4   5.1  6  J     503  45.6   27  J   3.4 -11  23   3.0   1.4  -0.1  1  J
23   534  32.1   98  J  12.0  41 125  -5.0   3.9   9.7  3  J     493  42.3   32  J   2.8  -1  15   2.7   0.7   0.2  1  J
24                       5.2   4  19   2.8   0.8   0.5  4  J     508  38.7   36  J   2.3  -2  20   2.0   0.7   0.2  1  J
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# 01/13/83 – 01/24/83

JAN. 13, 1983

13

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 504 | 27.8 | 76 | J | 3.9 | 17 | 352 | 3.5 | -0.8 | 0.8 | 1 | J |
| 2 | 485 | 24.0 | 60 | J | 4.1 | -30 | 357 | 2.6 | 0.4 | -1.5 | 3 | J |
| 3 | 486 | 29.5 | 65 | J | 3.7 | -11 | 15 | 3.3 | 1.0 | -0.4 | 1 | J |
| 4 | 485 | 31.0 | 54 | J | 3.6 | -20 | 27 | 2.5 | 1.5 | -0.7 | 2 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | 5.9 | 34 | 95 | -0.4 | 4.6 | 2.8 | 2 | J |
| 12 | | | | | 5.6 | 6 | 122 | -2.9 | 4.7 | 0.4 | 1 | J |
| 13 | | | | | 6.1 | -5 | 127 | -3.5 | 4.6 | -0.6 | 2 | J |
| 14 | 510 | 6.3 | 202 | J | 7.3 | -1 | 122 | -3.4 | 5.4 | -0.0 | 3 | J |
| 15 | 477 | 6.3 | 173 | J | 7.4 | -13 | 124 | -3.9 | 5.9 | -1.3 | 2 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 480 | 6.0 | 84 | J | 8.1 | -17 | 114 | -2.7 | 6.4 | -0.1 | 4 | J |
| 21 | | | | | 8.3 | -28 | 154 | -6.3 | 4.1 | -2.5 | 2 | J |
| 22 | 457 | 4.7 | 53 | J | 8.1 | -21 | 130 | -4.7 | 6.2 | -0.6 | 2 | J |
| 23 | 468 | 5.8 | 71 | J | 7.9 | -24 | 132 | -4.5 | 5.7 | -0.9 | 3 | J |
| 24 | 471 | 4.9 | 86 | J | 7.8 | -21 | 103 | -1.4 | 6.6 | 0.1 | 4 | J |

JAN. 15, 1983

15

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 384 | 15.6 | 58 | J | 13.3 | -19 | 115 | -5.2 | 12.0 | 0.2 | 2 | J |
| 2 | 395 | 16.7 | 85 | J | 13.2 | -28 | 110 | -3.9 | 12.1 | -2.0 | 3 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | 17.7 | 17 | 131 | -11.1 | 12.8 | 5.1 | 1 | J |
| 10 | 493 | 9.8 | 353 | J | 17.8 | 17 | 132 | -11.2 | 12.6 | 4.8 | 3 | J |
| 11 | | | | | 17.2 | 20 | 141 | -11.4 | 9.4 | 5.0 | 7 | J |
| 12 | | | | | 17.2 | 35 | 156 | -11.7 | 5.4 | 8.9 | 6 | J |
| 13 | 473 | 15.3 | 85 | J | 18.0 | 23 | 144 | -12.3 | 9.0 | 6.4 | 7 | J |
| 14 | 529 | 34.8 | 418 | J | 17.6 | 22 | 149 | -11.9 | 7.0 | 5.8 | 9 | J |
| 15 | | | | | 14.7 | -18 | 116 | -4.8 | 10.1 | -2.9 | 9 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 568 | 14.0 | 122 | J | 11.2 | -8 | 119 | -4.9 | 8.8 | 2.1 | 4 | J |
| 24 | 553 | 17.6 | 77 | J | 11.1 | -12 | 120 | -5.1 | 9.0 | 1.4 | 4 | J |

JAN. 17, 1983

17

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 556 | 25.3 | 91 | J | 12.2 | -19 | 117 | -5.0 | 10.6 | 0.3 | 3 | J |
| 2 | 556 | 19.1 | 93 | J | 12.0 | -10 | 131 | -7.2 | 8.5 | 1.2 | 4 | J |
| 3 | 552 | 23.3 | 67 | J | 12.6 | 4 | 128 | -7.3 | 8.6 | 3.8 | 4 | J |
| 4 | 565 | 24.1 | 88 | J | 12.7 | 3 | 115 | -4.7 | 9.5 | 3.3 | 6 | J |
| 5 | 553 | 21.7 | 61 | J | 13.8 | 6 | 135 | -9.4 | 8.9 | 3.4 | 3 | J |
| 6 | 541 | 20.9 | 86 | J | 13.3 | 5 | 145 | -10.0 | 6.8 | 2.1 | 5 | J |
| 7 | 527 | 16.4 | 78 | J | 13.3 | 9 | 143 | -8.7 | 6.3 | 2.3 | 7 | J |
| 8 | 605 | 20.8 | 129 | J | 12.5 | 3 | 146 | -8.8 | 5.9 | 0.8 | 6 | J |
| 9 | 613 | 16.3 | 155 | J | 13.5 | -5 | 130 | -7.6 | 9.0 | -0.9 | 6 | J |
| 10 | 583 | 22.4 | 144 | J | 14.0 | -3 | 140 | -9.7 | 8.1 | -0.7 | 6 | J |
| 11 | 607 | 14.5 | 102 | J | 14.1 | 0 | 133 | -8.4 | 9.0 | -0.2 | 7 | J |
| 12 | 646 | 24.9 | 377 | J | 8.7 | -13 | 159 | -4.0 | 1.5 | -1.0 | 7 | J |
| 13 | 710 | 14.6 | 203 | J | 9.9 | 17 | 133 | -5.4 | 5.8 | 2.5 | 5 | J |
| 14 | 659 | 13.5 | 138 | J | 8.7 | 42 | 144 | -4.8 | 3.3 | 5.5 | 3 | J |
| 15 | 753 | 11.1 | 188 | J | 7.9 | 1 | 119 | -3.1 | 5.5 | 0.6 | 5 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 6.0 | 49 | 246 | -0.8 | -2.2 | 1.7 | 5 | J |
| 19 | 660 | 14.0 | 154 | J | 7.9 | -30 | 93 | -0.3 | 5.6 | -1.4 | 5 | J |
| 20 | 635 | 10.7 | 290 | J | 8.0 | -35 | 111 | -2.3 | 7.1 | -2.3 | 1 | J |
| 21 | 586 | 18.3 | 72 | J | 7.7 | 10 | 165 | -6.5 | 1.2 | 1.7 | 3 | J |
| 22 | 632 | 13.7 | 109 | J | 8.2 | 13 | 125 | -2.9 | 3.4 | 2.7 | 6 | J |
| 23 | 636 | 11.0 | 161 | J | 9.0 | -42 | 90 | 0.0 | 7.4 | -2.5 | 4 | J |
| 24 | 663 | 12.8 | 150 | J | 8.3 | -3 | 128 | -2.8 | 3.3 | 1.2 | 7 | J |

JAN. 19, 1983

19

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 700 | 10.0 | 162 | J | 6.7 | 1 | 132 | -4.2 | 4.3 | 1.9 | 2 | J |
| 2 | 645 | 5.5 | 352 | J | 6.6 | 8 | 155 | -5.8 | 2.2 | 1.8 | 1 | J |
| 3 | | | | | 6.9 | -22 | 153 | -4.8 | 3.0 | -1.2 | 4 | J |
| 4 | | | | | | | | | | | | |
| 5 | 644 | 5.5 | 287 | J | 6.5 | -30 | 131 | -3.4 | 4.5 | -2.0 | 2 | J |
| 6 | 648 | 12.2 | 59 | J | 6.5 | 4 | 148 | -5.2 | 3.1 | 1.0 | 2 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | 6.5 | -7 | 146 | -4.8 | 3.3 | -0.5 | 3 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 6.8 | 32 | 185 | -5.4 | -0.5 | 3.4 | 2 | J |
| 13 | | | | | 7.1 | 12 | 179 | -6.1 | 0.1 | 1.3 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JAN. 14, 1983

14

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 488 | 15.3 | 4144 | J | 7.9 | -10 | 62 | 3.2 | 6.0 | 1.1 | 4 | J |
| 2 | | | | | 7.3 | -23 | 124 | -3.3 | 5.4 | -0.7 | 4 | J |
| 3 | 391 | 5.1 | 107 | J | 7.4 | -20 | 172 | -6.8 | 1.7 | -2.1 | 1 | J |
| 4 | 459 | 4.6 | 90 | J | 7.4 | -14 | 124 | -3.6 | 5.6 | -0.2 | 3 | J |
| 5 | 425 | 3.9 | 88 | J | 7.1 | -11 | 142 | -5.3 | 4.3 | -0.5 | 2 | J |
| 6 | 399 | 4.1 | 69 | J | 7.3 | -36 | 164 | -5.0 | 1.9 | -3.5 | 4 | J |
| 7 | 421 | 5.0 | 61 | J | 7.4 | -37 | 172 | -5.8 | 1.1 | -4.3 | 1 | J |
| 8 | 406 | 4.6 | 73 | J | 7.5 | -16 | 149 | -6.1 | 3.7 | -1.9 | 1 | J |
| 9 | 414 | 4.4 | 84 | J | 7.6 | -24 | 156 | -6.3 | 2.8 | -3.1 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | 7.7 | -15 | 106 | -2.0 | 6.9 | -2.0 | 2 | J |
| 14 | | | | | 7.7 | -11 | 103 | -1.6 | 7.1 | -1.3 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | 382 | 13.1 | 32 | J | 8.5 | -2 | 102 | -1.8 | 8.3 | 0.6 | 1 | J |
| 17 | 373 | 13.3 | 29 | J | 8.7 | -2 | 115 | -3.5 | 7.6 | 0.9 | 2 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 382 | 15.0 | 39 | J | 10.8 | -5 | 105 | -2.7 | 10.0 | 2.2 | 2 | J |
| 21 | 392 | 14.9 | 47 | J | 10.6 | -16 | 101 | -1.9 | 10.0 | 0.6 | 3 | J |
| 22 | 370 | 16.6 | 65 | J | 10.8 | -44 | 119 | -3.0 | 7.1 | -3.5 | 7 | J |
| 23 | 391 | 15.8 | 75 | J | 11.5 | -7 | 105 | -2.7 | 9.7 | 2.6 | 5 | J |
| 24 | | | | | | | | | | | | |

JAN. 16, 1983

16

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 533 | 17.6 | 59 | J | 10.8 | -13 | 141 | -6.7 | 5.8 | 0.2 | 6 | J |
| 2 | 550 | 17.3 | 82 | J | 11.0 | 9 | 139 | -7.2 | 5.3 | 3.6 | 5 | J |
| 3 | 579 | 16.4 | 82 | J | 11.0 | -10 | 113 | -3.7 | 8.7 | 1.1 | 5 | J |
| 4 | 535 | 17.7 | 75 | J | 10.6 | 7 | 128 | -5.5 | 6.5 | 2.9 | 5 | J |
| 5 | 554 | 21.1 | 88 | J | 11.9 | -26 | 113 | -3.7 | 9.5 | -2.7 | 5 | J |
| 6 | 577 | 23.2 | 102 | J | 12.5 | -5 | 143 | -7.6 | 5.8 | 0.0 | 8 | J |
| 7 | 530 | 21.4 | 62 | J | 11.9 | -9 | 168 | -10.0 | 2.3 | -1.4 | 6 | J |
| 8 | 553 | 22.9 | 81 | J | 10.9 | -3 | 157 | -8.4 | 3.6 | -0.3 | 6 | J |
| 9 | 601 | 23.4 | 93 | J | 11.3 | 14 | 109 | -2.8 | 8.2 | 2.2 | 7 | J |
| 10 | 578 | 29.4 | 116 | J | 11.7 | 8 | 106 | -2.2 | 7.5 | 1.0 | 8 | J |
| 11 | 539 | 23.4 | 68 | J | 11.1 | -42 | 232 | -5.0 | -6.6 | -7.1 | 2 | J |
| 12 | 566 | 21.3 | 71 | J | 10.5 | -34 | 231 | -5.4 | -6.8 | -5.7 | 1 | J |
| 13 | 540 | 18.9 | 125 | J | 10.1 | -36 | 241 | -3.9 | -7.0 | -5.8 | 2 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 537 | 28.0 | 66 | J | 10.4 | -8 | 101 | -1.5 | 7.9 | 0.7 | 7 | J |
| 19 | 545 | 28.7 | 93 | J | 10.3 | 3 | 134 | -6.9 | 6.8 | 2.5 | 3 | J |
| 20 | 519 | 33.7 | 50 | J | 11.0 | 2 | 149 | -9.1 | 5.1 | 2.1 | 3 | J |
| 21 | 576 | 19.9 | 45 | J | 11.1 | 10 | 147 | -8.7 | 4.6 | 3.7 | 3 | J |
| 22 | 565 | 22.3 | 128 | J | 10.6 | 26 | 153 | -8.0 | 2.1 | 5.6 | 4 | J |
| 23 | 549 | 20.0 | 85 | J | 11.6 | -6 | 137 | -6.8 | 6.2 | 1.6 | 7 | J |
| 24 | 556 | 22.3 | 73 | J | 12.6 | -11 | 122 | -6.3 | 10.3 | 1.9 | 3 | J |

JAN. 18, 1983

18

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 581 | 9.8 | 81 | J | 8.3 | -16 | 112 | -2.6 | 6.7 | 0.7 | 4 | J |
| 2 | | | | | 9.1 | 11 | 140 | -5.8 | 4.0 | 3.1 | 5 | J |
| 3 | 596 | 15.5 | 90 | J | 9.2 | 26 | 153 | -6.4 | 1.9 | 4.4 | 5 | J |
| 4 | 615 | 14.5 | 99 | J | 8.5 | 1 | 150 | -5.9 | 3.2 | 1.1 | 5 | J |
| 5 | 665 | 11.9 | 220 | J | 8.7 | 14 | 149 | -5.7 | 3.0 | 2.4 | 5 | J |
| 6 | 629 | 12.6 | 103 | J | 8.4 | -31 | 161 | -5.2 | 2.3 | -3.0 | 5 | J |
| 7 | | | | | 8.7 | -8 | 157 | -7.1 | 3.1 | -0.8 | 4 | J |
| 8 | | | | | 9.8 | 11 | 127 | -5.1 | 6.7 | 2.0 | 4 | J |
| 9 | 681 | 21.0 | 223 | J | 9.7 | 29 | 128 | -4.4 | 5.5 | 4.0 | 5 | J |
| 10 | | | | | | | | | | | | |
| 11 | 615 | 13.6 | 68 | J | | | | | | | | |
| 12 | 597 | 15.0 | 100 | J | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 8.2 | 13 | 161 | -5.2 | 1.6 | 1.5 | 6 | J |
| 17 | | | | | 7.8 | 8 | 160 | -7.2 | 2.4 | 1.5 | 2 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 7.0 | 21 | 150 | -4.7 | 1.6 | 3.0 | 4 | J |
| 24 | 733 | 8.4 | 157 | J | 7.1 | 38 | 145 | -4.3 | 1.1 | 5.0 | 2 | J |

JAN. 24, 1983

24

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 525 | 19.7 | 96 | J | 11.2 | 3 | 341 | 9.2 | -3.2 | -0.2 | 5 | J |
| 18 | 554 | 18.7 | 105 | J | 11.1 | 13 | 326 | 7.7 | -5.6 | 0.6 | 5 | J |
| 19 | 578 | 18.5 | 109 | J | 10.3 | 16 | 339 | 7.8 | -3.6 | 1.3 | 5 | J |
| 20 | 588 | 16.6 | 82 | J | 11.0 | 9 | 301 | 5.1 | -8.5 | -1.6 | 4 | J |
| 21 | 549 | 17.1 | 70 | J | 9.3 | 40 | 351 | 6.4 | -3.1 | 4.6 | 4 | J |
| 22 | 570 | 16.3 | 75 | J | 9.2 | -3 | 325 | 6.5 | -4.0 | -2.3 | 4 | J |
| 23 | 646 | 20.3 | 184 | J | 7.4 | -15 | 325 | 4.4 | -2.1 | -2.6 | 5 | J |
| 24 | 624 | 17.8 | 139 | J | 8.4 | -24 | 341 | 6.7 | -0.7 | -3.9 | 3 | J |

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### JAN. 25, 1983

25

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | 6.9 | -4 | 342 | 5.7 | -1.7 | -0.9 | 3 | J |
| 6 | 569 | 12.2 | 174 | J | 7.1 | -10 | 324 | 3.4 | -2.3 | -1.2 | 6 | J |
| 7 | 543 | 14.0 | 92 | J | 6.3 | 2 | 341 | 4.7 | -1.6 | -0.1 | 4 | J |
| 8 | 585 | 14.5 | 80 | J | 6.3 | 9 | 293 | 1.1 | -2.7 | 0.2 | 6 | J |
| 9 | 594 | 12.2 | 135 | J | 6.5 | 67 | 340 | 1.3 | -0.7 | 3.2 | 5 | J |
| 10 | 586 | 14.4 | 91 | J | 6.8 | 43 | 300 | 1.6 | -2.9 | 2.9 | 5 | J |
| 11 | 551 | 11.8 | 89 | J | 6.9 | -15 | 322 | 4.6 | -3.6 | -1.7 | 3 | J |
| 12 | 564 | 5.0 | 75 | J | 7.1 | -13 | 291 | 2.2 | -5.8 | -1.7 | 3 | J |
| 13 | 576 | 7.0 | 187 | J | 7.1 | -9 | 285 | 1.7 | -6.3 | -1.4 | 2 | J |
| 14 | 562 | 5.5 | 97 | J | 7.1 | -6 | 263 | -0.8 | -6.7 | -1.3 | 2 | J |
| 15 | 553 | 6.9 | 153 | J | 6.6 | -17 | 284 | 1.4 | -5.5 | -2.5 | 2 | J |
| 16 | 565 | 9.7 | 70 | J | 5.8 | 3 | 291 | 1.6 | -4.2 | -0.5 | 4 | J |
| 17 | 513 | 8.5 | 159 | J | 5.6 | 7 | 338 | 2.7 | -3.5 | -0.3 | 3 | J |
| 18 | | | | | | | | | | | | |
| 19 | 535 | 5.1 | 48 | J | 5.7 | 11 | 354 | 5.1 | -0.8 | 0.8 | 2 | J |
| 20 | 521 | 9.1 | 61 | J | 5.7 | 15 | 313 | 3.2 | -3.6 | -0.1 | 3 | J |
| 21 | 529 | 4.9 | 91 | J | 5.5 | 14 | 311 | 3.0 | -3.6 | -0.3 | 3 | J |
| 22 | 509 | 6.1 | 107 | J | 5.4 | -10 | 331 | 3.8 | -1.6 | -1.6 | 3 | J |
| 23 | 491 | 5.2 | 110 | J | 5.4 | -14 | 338 | 4.5 | -1.1 | -1.9 | 2 | J |
| 24 | | | | | | | | | | | | |

### JAN. 26, 1983

26

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 481 | 8.8 | 119 | J | 5.8 | 3 | 328 | 4.2 | -2.6 | -0.7 | 3 | J |
| 4 | 48[illegible] | 13.7 | 52 | J | 5.6 | 31 | 357 | 4.5 | -1.1 | 2.5 | 2 | J |
| 5 | | | | | 6.0 | -13 | 307 | 3.4 | -4.0 | -2.5 | 2 | J |
| 6 | | | | | 5.8 | -3 | 316 | 3.7 | -3.5 | -1.0 | 3 | J |
| 7 | | | | | 5.7 | -9 | 334 | 4.2 | -1.9 | -1.0 | 3 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 490 | 13.5 | 53 | J | 7.3 | -35 | 256 | -1.3 | -5.1 | -4.1 | 3 | J |
| 11 | 47[illegible] | 5.7 | 63 | J | 7.2 | -14 | 264 | -0.7 | -6.5 | -1.9 | 2 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 445 | 6.1 | 91 | J | 6.7 | -7 | 300 | 3.0 | -4.8 | -1.9 | 3 | J |
| 18 | 482 | 8.3 | 115 | J | 6.4 | -8 | 279 | 0.7 | -4.0 | -1.8 | 5 | J |
| 19 | 457 | 6.0 | 119 | J | 6.5 | 0 | 294 | 2.5 | -5.3 | -1.8 | 2 | J |
| 20 | 434 | 5.8 | 127 | J | 6.1 | 18 | 320 | 4.3 | -4.0 | 0.3 | 1 | J |
| 21 | 450 | 6.2 | 197 | J | 6.1 | 11 | 312 | 3.9 | -4.5 | -0.7 | 1 | J |
| 22 | 454 | 6.2 | 114 | J | 6.1 | 31 | 24 | 4.5 | 0.5 | 3.5 | 2 | J |
| 23 | 435 | 4.3 | 37 | J | 6.0 | 18 | 360 | 5.6 | -0.8 | 1.6 | 1 | J |
| 24 | | | | | | | | | | | | |

### JAN. 27, 1983

27

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 435 | 5.2 | 36 | J | 6.0 | -9 | 342 | 4.8 | -1.1 | -1.4 | 3 | J |
| 2 | 448 | 7.4 | 108 | J | 6.0 | -1 | 320 | 4.1 | -3.1 | -1.5 | 3 | J |
| 3 | 422 | 6.4 | 54 | J | 6.1 | 2 | 341 | 4.7 | -1.6 | -0.5 | 4 | J |
| 4 | 451 | 6.7 | 63 | J | 6.5 | -15 | 288 | 1.8 | -4.6 | -3.2 | 3 | J |
| 5 | 468 | 8.2 | 94 | J | 6.7 | 17 | 293 | 2.1 | -5.3 | 0.2 | 3 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | 6.3 | -5 | 250 | -2.1 | -5.7 | -1.5 | 1 | J |
| 8 | | | | | 6.0 | -13 | 277 | 0.7 | -5.3 | -1.9 | 2 | J |
| 9 | | | | | 6.1 | -5 | 297 | 2.2 | -4.2 | -0.8 | 4 | J |
| 10 | 452 | 6.8 | 86 | J | 6.1 | -2 | 287 | 1.6 | -5.3 | -0.5 | 2 | J |
| 11 | 455 | 7.0 | 95 | J | 6.3 | 28 | 310 | 2.1 | -2.6 | 1.6 | 5 | J |
| 12 | | | | | 6.1 | 23 | 327 | 4.4 | -3.0 | 2.1 | 2 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 402 | 5.1 | 57 | J | 6.2 | 12 | 341 | 5.3 | -2.0 | 0.8 | 2 | J |
| 17 | 409 | 5.4 | 56 | J | 6.1 | -6 | 324 | 4.7 | -3.1 | -1.4 | 2 | J |
| 18 | | | | | | | | | | | | |
| 19 | 427 | 5.5 | 50 | J | 6.3 | -26 | 286 | 1.5 | -4.1 | -4.4 | 1 | J |
| 20 | 427 | 5.4 | 78 | J | 5.9 | -3 | 314 | 3.5 | -3.3 | -1.6 | 3 | J |
| 21 | 405 | 5.1 | 44 | J | 6.2 | -14 | 320 | 4.5 | -2.8 | -2.9 | 1 | J |
| 22 | 405 | 5.9 | 70 | J | 6.3 | 16 | 358 | 5.4 | -0.8 | 1.3 | 3 | J |
| 23 | 401 | 5.5 | 74 | J | 6.3 | 26 | 11 | 5.4 | -0.3 | 2.9 | 2 | J |
| 24 | 385 | 5.5 | 55 | J | 7.0 | 21 | 24 | 5.8 | 1.2 | 3.3 | 1 | J |

### JAN. 28, 1983

28

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3[illegible]9 | 5.1 | 35 | J | 7.0 | 23 | 26 | 5.5 | 1.3 | 3.5 | 2 | J |
| 2 | 344 | 6.0 | 42 | J | 7.1 | 27 | 343 | 5.5 | -2.7 | 1.9 | 3 | J |
| 3 | 376 | 5.8 | 30 | J | 6.9 | 21 | 344 | 5.7 | -2.4 | 1.5 | 3 | J |
| 4 | 367 | 5.2 | 38 | J | 7.2 | 19 | 2 | 6.5 | -0.5 | 2.2 | 2 | J |
| 5 | 374 | 5.1 | 38 | J | 7.3 | 11 | 354 | 7.0 | -1.1 | 1.1 | 1 | J |
| 6 | 353 | 5.6 | 39 | J | 7.5 | 5 | 342 | 6.9 | -2.3 | 0.1 | 1 | J |
| 7 | | | | | 7.8 | -21 | 292 | 2.3 | -5.2 | -3.3 | 4 | J |
| 8 | 354 | 6.1 | 66 | J | 7.5 | -23 | 315 | 4.4 | -4.0 | -3.1 | 3 | J |
| 9 | 348 | 5.8 | 69 | J | 7.8 | -11 | 346 | 7.1 | -1.7 | -1.6 | 2 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 374 | 9.9 | 29 | J | 8.3 | -32 | 269 | -0.1 | -6.4 | -4.5 | 3 | J |
| 13 | 377 | 10.3 | 23 | J | 8.2 | -48 | 251 | -1.4 | -3.7 | -5.1 | 5 | J |
| 14 | | | | | 9.4 | -24 | 282 | 1.8 | -7.9 | -4.7 | 1 | J |
| 15 | | | | | 9.9 | -33 | 270 | -0.0 | -7.0 | -6.2 | 3 | J |
| 16 | 374 | 8.1 | 28 | J | 10.0 | -7 | 295 | 4.2 | -8.6 | -2.9 | 1 | J |
| 17 | 385 | 6.2 | 33 | J | 10.0 | -4 | 299 | 4.7 | -8.0 | -2.7 | 2 | J |
| 18 | 380 | 6.3 | 32 | J | 10.1 | 2 | 306 | 5.9 | -7.8 | -2.0 | 2 | J |
| 19 | 379 | 7.7 | 31 | J | 9.9 | 3 | 304 | 5.5 | -7.8 | -2.3 | 1 | J |
| 20 | 378 | 8.8 | 30 | J | 9.3 | -3 | 304 | 5.0 | -6.7 | -3.3 | 2 | J |
| 21 | 371 | 9.1 | 46 | J | 8.5 | 2 | 322 | 6.3 | -4.6 | -1.8 | 3 | J |
| 22 | 414 | 10.6 | 48 | J | 8.6 | -73 | 190 | -2.4 | 3.2 | -7.5 | 1 | J |
| 23 | 408 | 12.1 | 71 | J | 8.4 | -37 | 273 | 0.2 | -2.6 | -5.3 | 6 | J |
| 24 | | | | | | | | | | | | |

### JAN. 29, 1983

29

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 11.9 | 51 | J | 7.5 | -30 | 265 | -0.4 | -3.2 | -4.9 | 4 | J |
| 2 | 379 | 11.8 | 55 | J | 8.2 | 1 | 311 | 4.1 | -4.3 | -1.9 | 5 | J |
| 3 | 374 | 10.6 | 56 | J | 9.2 | 2 | 320 | 6.9 | -5.5 | -1.9 | 2 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 411 | 27.3 | 53 | J | 6.6 | 35 | 316 | 3.8 | -4.4 | 2.7 | 2 | J |
| 7 | 416 | 29.6 | 47 | J | 6.2 | 15 | 314 | 4.0 | -4.4 | 0.8 | 2 | J |
| 8 | 402 | 22.0 | 33 | J | 6.6 | 11 | 323 | 5.1 | -4.0 | 0.7 | 1 | J |
| 9 | 382 | 24.1 | 23 | J | 6.9 | 18 | 340 | 6.0 | -2.4 | 1.9 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | 8.8 | -3 | 334 | 7.9 | -3.8 | -0.7 | 0 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 503 | 39.2 | 110 | J | 14.2 | -33 | 178 | -10.7 | 1.8 | -6.8 | 6 | J |
| 17 | 487 | 38.1 | 173 | J | 15.4 | -7 | 159 | -13.4 | 5.4 | -0.4 | 5 | J |
| 18 | | | | | | | | | | | | |
| 19 | 475 | 22.0 | 66 | J | 14.4 | 12 | 131 | -8.4 | 8.1 | 5.9 | 6 | J |
| 20 | 479 | 25.5 | 45 | J | 14.9 | 25 | 131 | -8.7 | 6.8 | 9.6 | 3 | J |
| 21 | 530 | 25.6 | 100 | J | 10.8 | 3 | 135 | -6.8 | 5.9 | 3.3 | 5 | J |
| 22 | 583 | 30.7 | 138 | J | 8.5 | -1 | 155 | -5.9 | 2.5 | 1.1 | 5 | J |
| 23 | 573 | 27.1 | 155 | J | | | | | | | | |
| 24 | 567 | 29.7 | 203 | J | | | | | | | | |

### JAN. 30, 1983

30

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 585 | 17.7 | 93 | J | 9.3 | 31 | 163 | -6.6 | -0.1 | 4.6 | 5 | J |
| 2 | 593 | 19.9 | 83 | J | 8.5 | 43 | 212 | -4.5 | -4.7 | 3.3 | 4 | J |
| 3 | 580 | 25.2 | 91 | J | 9.3 | 26 | 215 | -6.0 | -5.3 | 1.7 | 4 | J |
| 4 | 592 | 23.5 | 141 | J | 8.4 | 19 | 165 | -7.0 | 0.9 | 3.0 | 3 | J |
| 5 | 571 | 18.5 | 107 | J | 7.1 | 13 | 173 | -6.0 | 0.3 | 1.5 | 3 | J |
| 6 | 572 | 20.0 | 128 | J | 6.7 | -17 | 184 | -5.8 | 0.0 | -1.8 | 3 | J |
| 7 | 589 | 12.6 | 95 | J | 6.7 | -13 | 179 | -6.0 | 0.4 | -1.4 | 2 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | 5.7 | -33 | 88 | 0.1 | 3.0 | -1.6 | 5 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 6.8 | 11 | 138 | -4.7 | 3.7 | 2.5 | 2 | J |
| 19 | | | | | 7.9 | 17 | 142 | -5.9 | 3.5 | 3.7 | 2 | J |
| 20 | | | | | 6.3 | 11 | 127 | -3.2 | 3.5 | 2.6 | 3 | J |
| 21 | | | | | 5.6 | -3 | 100 | -0.8 | 4.3 | 1.8 | 3 | J |
| 22 | | | | | 5.8 | -23 | 134 | -2.9 | 3.5 | -0.2 | 4 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

### JAN. 31, 1983

31

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.1 | -20 | 208 | -3.7 | -1.0 | -2.2 | 3 | J |
| 2 | | | | | 5.0 | -13 | 163 | -3.1 | 1.2 | -0.3 | 4 | J |
| 3 | | | | | 5.6 | 16 | 188 | -4.9 | -1.2 | 1.0 | 2 | J |
| 4 | | | | | 5.6 | -14 | 172 | -4.7 | 1.0 | -0.9 | 3 | J |
| 5 | | | | | 5.8 | -8 | 167 | -5.4 | 1.4 | -0.4 | 2 | J |
| 6 | | | | | 5.4 | -24 | 161 | -4.4 | 2.0 | -1.7 | 2 | J |
| 7 | | | | | 5.3 | -31 | 168 | -4.4 | 1.4 | -2.5 | 0 | J |
| 8 | | | | | 5.8 | 13 | 168 | -5.4 | 1.0 | 1.4 | 1 | J |
| 9 | | | | | 5.7 | 11 | 166 | -5.3 | 1.2 | 1.2 | 1 | J |
| 10 | | | | | 5.8 | 8 | 169 | -5.5 | 1.0 | 0.9 | 1 | J |
| 11 | | | | | 5.8 | -4 | 164 | -5.3 | 1.5 | -0.3 | 2 | J |
| 12 | | | | | 5.3 | -7 | 150 | -4.3 | 2.5 | -0.4 | 2 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 6.1 | -36 | 197 | -4.6 | 0.4 | -3.7 | 1 | J |
| 24 | | | | | | | | | | | | |

### FEB. 6, 1983

37

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 572 | 0.9 | 66 | J | | | | | | | | |
| 22 | 568 | 2.1 | 57 | J | | | | | | | | |
| 23 | 510 | 3.6 | 55 | J | | | | | | | | |
| 24 | | | | | | | | | | | | |

# 02/07/83 – 02/19/83

FEB. 7, 1983 38

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 521 | 3.3 | 59 | J | | | | | | | | |
| 4 | 530 | 2.9 | 49 | J | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 558 | 16.9 | 90 | J | 7.3 | 45 | 302 | 2.7 | -5.7 | 3.3 | 2 | J |
| 19 | 535 | 16.8 | 113 | J | 7.6 | 29 | 328 | 5.4 | -4.5 | 2.0 | 2 | J |
| 20 | 522 | 22.5 | 69 | J | 7.0 | 15 | 334 | 5.9 | -3.4 | 0.4 | 2 | J |
| 21 | 531 | 6.4 | 178 | J | 7.1 | 23 | 335 | 5.8 | -3.7 | 1.2 | 2 | J |
| 22 | 513 | 35.5 | 57 | J | 7.0 | 12 | 339 | 6.1 | -2.7 | 0.1 | 2 | J |
| 23 | | | | | 8.8 | 4 | 355 | 8.7 | -1.0 | 0.2 | 1 | J |
| 24 | | | | | 5.8 | -10 | 336 | 4.9 | -1.4 | -1.9 | 2 | J |

FEB. 8, 1983 39

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 558 | 15.5 | 38 | J | 10.5 | -24 | 357 | 9.5 | 0.5 | -4.2 | 1 | J |
| 8 | | | | | 10.4 | -31 | 0 | 8.1 | 0.9 | -4.8 | 4 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 8.4 | -12 | 321 | 6.3 | -4.9 | -2.3 | 1 | J |
| 13 | 530 | 3.1 | 72 | J | 7.2 | -11 | 333 | 6.1 | -2.9 | -1.7 | 1 | J |
| 14 | 550 | 4.1 | 86 | J | 7.5 | -5 | 327 | 6.2 | -3.9 | -1.3 | 1 | J |
| 15 | 542 | 6.1 | 183 | J | 7.5 | 9 | 335 | 6.7 | -3.3 | 0.5 | 1 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 6.5 | 29 | 356 | 5.6 | -1.4 | 2.8 | 0 | J |
| 19 | 509 | 43.6 | 32 | J | 6.2 | 27 | 356 | 5.5 | -1.5 | 2.4 | 0 | J |
| 20 | | | | | 6.2 | 20 | 354 | 5.6 | -1.4 | 1.6 | 1 | J |
| 21 | 480 | 20.6 | 27 | J | 6.4 | 7 | 337 | 5.8 | -2.6 | -0.5 | 1 | J |
| 22 | 485 | 19.3 | 29 | J | 6.3 | -3 | 329 | 5.3 | -2.6 | -1.8 | 1 | J |
| 23 | 490 | 17.8 | 32 | J | 6.3 | -8 | 325 | 5.0 | -2.6 | -2.5 | 1 | J |
| 24 | 475 | 14.2 | 32 | J | 6.5 | -8 | 335 | 5.7 | -1.9 | -2.1 | 1 | J |

FEB. 9, 1983 40

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 495 | 13.7 | 30 | J | 6.1 | 11 | 333 | 5.2 | -2.8 | -0.3 | 1 | J |
| 2 | 443 | 4.7 | 20 | J | 6.0 | -2 | 327 | 4.9 | -2.7 | -1.7 | 1 | J |
| 3 | | | | | 5.8 | -2 | 322 | 4.6 | -3.1 | -1.7 | 0 | J |
| 4 | 476 | 20.7 | 22 | J | 5.6 | -2 | 320 | 4.2 | -3.2 | -1.6 | 1 | J |
| 5 | 459 | 16.0 | 23 | J | 5.7 | 1 | 320 | 4.4 | -3.5 | -1.1 | 1 | J |
| 6 | 470 | 16.4 | 24 | J | 5.9 | 3 | 321 | 4.5 | -3.6 | -0.7 | 1 | J |
| 7 | 444 | 6.1 | 19 | J | 6.0 | 0 | 331 | 5.2 | -2.8 | -0.7 | 1 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | 7.3 | -32 | 340 | 5.7 | -1.4 | -4.1 | 1 | J |
| 15 | | | | | 7.0 | -31 | 0 | 5.9 | 0.7 | -3.5 | 1 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 438 | 19.1 | 26 | J | 6.5 | -26 | 330 | 5.0 | -1.7 | -3.6 | 1 | J |
| 19 | 487 | 33.8 | 32 | J | 6.6 | -16 | 319 | 4.6 | -3.0 | -3.2 | 1 | J |
| 20 | | | | | 6.7 | -27 | 321 | 4.6 | -2.1 | -4.4 | 0 | J |
| 21 | | | | | | | | | | | | |
| 22 | 404 | 39.7 | 15 | J | 4.6 | -27 | 319 | 2.8 | -1.2 | -2.9 | 2 | J |
| 23 | | | | | 4.5 | -65 | 224 | -1.3 | 0.9 | -4.1 | 1 | J |
| 24 | | | | | 6.3 | -59 | 237 | -1.7 | 0.4 | -5.8 | 1 | J |

FEB. 10, 1983 41

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.3 | -69 | 260 | -0.3 | 0.8 | -5.1 | 1 | J |
| 2 | | | | | 6.3 | -61 | 225 | -2.1 | 0.7 | -5.7 | 1 | J |
| 3 | | | | | 6.0 | -65 | 190 | -2.5 | 2.0 | -5.0 | 1 | J |
| 4 | | | | | 5.8 | -59 | 207 | -2.6 | 0.7 | -5.0 | 1 | J |
| 5 | 371 | 26.9 | 17 | J | 6.7 | -53 | 228 | -2.7 | -1.0 | -6.1 | 1 | J |
| 6 | 371 | 36.9 | 17 | J | 5.5 | -40 | 238 | -1.9 | -2.1 | -3.9 | 3 | J |
| 7 | 368 | 38.3 | 18 | J | 4.2 | -40 | 232 | -1.8 | -1.7 | -2.9 | 2 | J |
| 8 | 365 | 30.5 | 15 | J | 4.9 | -42 | 214 | -3.0 | -1.3 | -3.5 | 1 | J |
| 9 | 373 | 28.8 | 13 | J | 5.2 | -35 | 226 | -2.8 | -2.5 | -3.3 | 2 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 3.9 | 4 | 180 | -3.7 | -0.1 | 0.2 | 1 | J |
| 19 | | | | | 3.8 | -5 | 191 | -3.5 | -0.5 | -0.6 | 1 | J |
| 20 | | | | | 3.7 | 9 | 197 | -3.3 | -1.1 | 0.0 | 1 | J |
| 21 | 334 | 37.6 | 12 | J | 3.9 | 15 | 207 | -3.4 | -2.0 | 0.1 | 1 | J |
| 22 | 333 | 33.8 | 11 | J | 4.3 | 29 | 187 | -3.6 | -1.4 | 1.5 | 1 | J |
| 23 | 332 | 34.8 | 11 | J | 3.6 | 28 | 191 | -2.8 | -1.2 | 1.0 | 2 | J |
| 24 | | | | | 3.4 | -12 | 176 | -3.0 | 0.5 | -0.4 | 2 | J |

FEB. 11, 1983 42

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 336 | 26.9 | 13 | J | 3.3 | -13 | 181 | -3.0 | 0.3 | -0.6 | 1 | J |
| 2 | 359 | 25.7 | 16 | J | | | | | | | | |
| 3 | 345 | 30.9 | 14 | J | 3.0 | -18 | 187 | -2.7 | 0.1 | -1.0 | 1 | J |
| 4 | 338 | 31.4 | 14 | J | 3.5 | -12 | 192 | -3.0 | -0.3 | -0.8 | 2 | J |
| 5 | 334 | 31.2 | 20 | J | 3.6 | -11 | 188 | -3.2 | -0.2 | -0.7 | 1 | J |
| 6 | 335 | 34.2 | 22 | J | 3.8 | -13 | 174 | -3.6 | 0.6 | -0.7 | 1 | J |
| 7 | 341 | 40.1 | 23 | J | 3.9 | -18 | 164 | -3.6 | 1.3 | -0.9 | 0 | J |
| 8 | 340 | 59.9 | 32 | J | 5.4 | -22 | 148 | -4.1 | 2.9 | -1.4 | 2 | J |
| 9 | 390 | 78.7 | 49 | J | 7.3 | -28 | 110 | -2.1 | 6.1 | -2.3 | 3 | J |
| 10 | | | | | 7.2 | -19 | 101 | -1.3 | 6.8 | -1.4 | 2 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | 11.7 | -6 | 148 | -9.2 | 5.9 | 0.1 | 4 | J |
| 16 | | | | | 11.5 | -9 | 154 | -8.2 | 4.2 | -0.4 | 7 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 13.8 | -67 | 157 | -4.7 | 6.2 | -10.6 | 4 | J |
| 19 | | | | | 12.6 | 8 | 133 | -6.7 | 6.0 | 4.2 | 8 | J |
| 20 | | | | | 12.6 | -66 | 133 | -2.6 | 6.2 | -6.4 | 8 | J |
| 21 | | | | | 12.6 | -38 | 116 | -3.4 | 9.0 | -2.0 | 8 | J |
| 22 | | | | | 13.2 | 16 | 111 | -4.2 | 7.8 | 8.4 | 5 | J |
| 23 | | | | | 13.0 | -17 | 102 | -2.2 | 10.8 | 2.6 | 6 | J |
| 24 | | | | | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 10.0 | 31 | 107 | -2.2 | 4.2 | 7.4 | 5 | J |
| 3 | | | | | 10.1 | 14 | 111 | -3.4 | 6.8 | 6.0 | 3 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | 10.0 | 2 | 144 | -6.7 | 4.7 | 1.3 | 5 | J |
| 9 | | | | | 10.7 | 22 | 135 | -6.0 | 5.4 | 4.4 | 5 | J |
| 10 | | | | | 11.2 | -11 | 142 | -6.8 | 5.5 | -0.9 | 7 | J |
| 11 | | | | | 11.8 | 23 | 164 | -10.1 | 2.3 | 4.8 | 3 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | 12.9 | -11 | 118 | -5.4 | 10.3 | 2.1 | 5 | J |
| 20 | | | | | 13.1 | -5 | 109 | -3.8 | 10.2 | 4.0 | 6 | J |
| 21 | | | | | 12.9 | -5 | 114 | -4.1 | 8.5 | 3.6 | 8 | J |
| 22 | | | | | 12.1 | -4 | 151 | -9.3 | 4.8 | 2.0 | 6 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | 12.1 | -82 | 46 | 0.1 | 0.8 | -1.0 | 14 | J |

FEB. 13, 1983 44

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 12.2 | -21 | 137 | -6.3 | 6.7 | 0.1 | 8 | J |
| 2 | | | | | 12.3 | -15 | 125 | -5.5 | 8.1 | 1.5 | 7 | J |
| 3 | | | | | 12.3 | 20 | 116 | -4.8 | 7.0 | 8.0 | 4 | J |
| 4 | | | | | 12.7 | -2 | 123 | -4.7 | 6.8 | 2.7 | 9 | J |
| 5 | | | | | 12.9 | -8 | 122 | -5.1 | 8.2 | 1.6 | 8 | J |
| 6 | | | | | | | | | | | | |
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FEB. 19, 1983 50

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 461 | 6.7 | 50 | L | | | | | | | | |
| 4 | 461 | 6.5 | 39 | J | 5.6 | 31 | 176 | -4.4 | -0.9 | 2.6 | 2 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 453 | 12.7 | 39 | J | 5.8 | -49 | 77 | 0.8 | 4.4 | -3.3 | 1 | J |
| 9 | 450 | 12.1 | 44 | J | 5.7 | -45 | 76 | 0.9 | 4.4 | -3.1 | 2 | J |
| 10 | 444 | 14.4 | 79 | J | 4.4 | -58 | 205 | -1.7 | -0.3 | -3.1 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
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| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 417 | 7.2 | 27 | J | 7.6 | 17 | 338 | 6.5 | -3.2 | 1.0 | 2 | J |
| 19 | 418 | 7.4 | 27 | J | 7.7 | 15 | 337 | 6.4 | -3.3 | 0.5 | 2 | J |
| 20 | 417 | 8.6 | 32 | J | 7.9 | 22 | 342 | 6.6 | -3.2 | 1.5 | 2 | J |
| 21 | 420 | 9.8 | 40 | J | 8.4 | 13 | 326 | 6.6 | -4.8 | -0.6 | 2 | J |
| 22 | 414 | 9.7 | 32 | J | 8.5 | 3 | 331 | 7.0 | -3.5 | -1.7 | 3 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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OF POOR QUALITY

02/20/83 – 03/03/83

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HR     VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                   SC
                                                           51
                    FEB. 20, 1983

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13   560  8.9 247  J    9.5 -10 313    5.8  -5.8  -2.6  4  J
14   547  8.6 186  J    9.2 -10 302    4.3  -6.5  -2.9  4  J
15   505  8.2 160  J    9.7 -23 322    6.5  -4.0  -4.6  4  J
16
17
18
19
20
21   574  6.4 128  J   10.3 -29 299    4.2  -4.2  -8.0  3  J
22   564  7.0 135  J    9.8 -11 320    6.5  -3.8  -4.3  5  J
23
24

                                                           53
                    FEB. 22, 1983

 1
 2   603  5.0 154  J    7.0  -9 331    3.2  -4.0  -3.5  3  J
 3   623  5.7 176  J    5.6  47  28    2.6  -0.3   3.4  4  J
 4                      5.3  12  11    4.9   0.4   1.4  1  J
 5
 6   609  5.8 139  J    6.0  23   9    5.2   0.0   2.4  2  J
 7   607  5.5 146  J    5.6   9   4    4.6   0.1   0.8  3  J
 8
 9
10                      5.0  27 294    1.3  -3.3   1.1  3  J
11   590  5.2 124  J    4.8  34 333    2.0  -3.4   1.9  2  J
12   547  4.6 126  J    5.6  27 346    4.6  -1.5   2.2  2  J
13   542  4.6 125  J
14   507  5.1  43  J    5.1  17 347    4.6  -1.3   1.2  1  J
15   502  5.4  43  J    5.5   9 342    4.6  -1.6   0.4  2  J
16   502  5.4  45  J    5.5  -3   7    5.5   0.7  -0.1  1  J
17
18
19
20   493  7.6 129  J    5.6  18 308    3.2  -4.4  -0.5  1  J
21   507  7.1  90  J    5.4  21 314    1.8  -2.1  -0.1  5  J
22   514  7.4 107  J    5.8  36 299    1.5  -3.5   0.5  4  J
23   500  7.4  92  J    5.9  22 313    3.6  -4.4  -0.3  2  J
24   524  7.6  74  J    6.9 -12 260   -1.1  -4.5  -4.5  2  J

                                                           55
                    FEB. 24, 1983

 1   515  7.5 157  J    4.3 -13 202   -3.7  -0.8  -1.6  1  J
 2   510  6.3 155  J    5.0  -3 214   -3.7  -2.0  -1.5  2  J
 3   512  5.1 119  J    4.5  -8 179   -4.2   0.3  -0.5  1  J
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15                      4.3 -22 334    3.5  -1.2  -2.0  1  J
16                      4.4 -24 332    3.5  -1.2  -2.2  1  J
17
18                      5.3 -23 263   -0.5  -3.3  -3.5  2  J
19   450  5.4  43  J    5.3 -36 238   -2.1  -1.8  -4.2  2  J
20   432  4.6  37  J    5.4 -68 299    0.9   0.8  -4.8  2  J
21   420  6.6  42  J    4.3   6 271    0.1  -3.6  -1.7  2  J
22   429  6.6  51  J    4.8  30 240   -1.9  -3.9   0.1  2  J
23   430  6.5  43  J    5.1  -1 240   -2.5  -3.6  -2.4  1  J
24

                                                           61
                    MAR. 2, 1983

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15   433 12.9 184  J
16   442 14.0 247  J
17   446  9.8 182  J
18   448 10.8 181  J
19
20   478 11.1 245  J   12.3  11 317    7.8  -7.4  -1.8  6  J
21                     10.1 -12 325    7.4  -3.4  -4.3  4  J
22   520  6.9 206  J   10.3 -42 321    5.6  -0.2  -7.9  3  J
23
24   524  4.9 108  J   10.4 -23 311    5.5  -3.3  -6.5  4  J
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VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
         1000  SC  MAGN LAT LON                   SC
                                                    52
               FEB. 21, 1983



558  7.2  73  J    9.4   8   2    7.6  -0.2   1.1  5  J
570  7.5 154  J    9.3 -25 326    6.2  -2.5  -4.8  4  J
591  8.9 318  J    8.9 -15 302    4.1  -5.5  -4.1  4  J
591  8.3 261  J    7.9  -5 311    4.4  -4.7  -2.0  4  J
594  8.0 303  J    8.1 -14 316    5.6  -4.8  -3.1  2  J




                   8.1  35  39    4.7   3.0   4.9  3  J
595  6.7 184  J    8.7  43  20    5.5   0.8   5.8  3  J
601  6.4 180  J    9.0 -10 302    3.9  -5.7  -2.8  5  J

621  5.7 172  J    8.3  19 287    2.2  -7.5  -0.0  3  J
594  6.2 171  J    8.0  10 317    5.0  -4.7  -0.7  4  J
583  6.7 158  J    8.0 -22 328    5.6  -2.0  -3.9  4  J
588  5.7 151  J    7.7 -12 326    5.4  -2.6  -3.0  4  J

                                                    54
               FEB. 23, 1983

515  5.1  84  J    5.2   5 310    3.1  -3.6  -0.5  2  J
510  5.0  75  J    5.1  25 321    3.0  -2.9   1.0  3  J


519  6.1 111  J    5.2  12 250   -1.4  -3.8  -0.9  3  J
512  5.8 108  J    4.7  11 272    0.1  -1.9  -0.6  4  J
503  5.8 173  J    3.1  12 335    1.9  -1.0  -0.1  2  J
522  5.7  91  J    4.9  -6 211   -4.0  -1.8  -1.7  1  J
516  6.1  91  J    5.1 -26 204   -3.9  -0.3  -2.7  2  J

                                                    60
               MAR. 1, 1983

527 12.4 215  J
495 13.1 209  J

528  6.7 223  J
486  8.9 192  J
422 11.9 177  J


452  6.3 267  J
448  9.9 889  J
406  7.8 286  J
439  7.8 122  J
384 17.4 102  J

                                                    62
               MAR. 3, 1983

518  4.7 117  J    8.4  -4 317    5.1  -4.4  -1.9  4  J
605  6.4 220  J    8.8  15 297    2.9  -5.8   0.2  6  J
550  6.4 160  J    9.8  11 329    7.0  -4.4   0.6  5  J
532  6.2 139  J    9.4  -2 354    8.4  -0.8  -0.5  4  J

560  6.2 162  J    8.9  -3 312    4.8  -5.2  -1.4  5  J
555  6.2 123  J    8.2   0 315    4.7  -4.6  -1.0  5  J

552  6.4 124  J    8.3 -52 350    4.7   0.9  -6.1  3  J


600  6.4 103  J    7.5  10 249   -2.2  -5.6  -1.4  4  J
563  6.2 109  J    7.3 -10 289    2.0  -4.6  -3.6  4  J
530  6.3 131  J    7.3  13 328    4.7  -3.2  -0.4  4  J
530  6.2  84  J    7.4  19 335    5.4  -3.2   0.4  4  J
511  6.1  73  J    7.0  12 347    5.6  -1.8   0.3  4  J
552  6.1  98  J    7.2   3 297    2.4  -4.1  -2.5  5  J
564  6.4 113  J    7.2 -19 268   -0.2  -3.7  -4.9  4  J
```

## 03/04/83 – 03/14/83

MAR. 4, 1983 63

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 540 | 6.3 | 136 | J | 6.5 | -12 | 305 | 2.5 | -2.5 | -2.8 | 5 | J |
| 2 | 545 | 6.2 | 155 | J | 6.3 | 32 | 292 | 1.0 | -3.1 | 0.1 | 5 | J |
| 3 | 524 | 5.9 | 118 | J | 6.4 | 3 | 329 | 3.3 | -1.8 | -0.8 | 5 | J |
| 4 | 544 | 5.7 | 130 | J | 6.4 | 59 | 322 | 2.1 | -3.4 | 3.2 | 4 | J |
| 5 | 534 | 6.1 | 187 | J | 5.8 | 27 | 327 | 2.9 | -2.4 | 0.9 | 4 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 480 | 7.2 | 129 | J | 6.1 | -34 | 336 | 4.4 | -1.2 | -3.6 | 2 | J |
| 14 | 490 | 7.0 | 128 | J | 6.3 | -17 | 303 | 3.0 | -4.1 | -2.8 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 505 | 6.6 | 91 | J | 5.4 | 15 | 273 | 0.2 | -4.5 | -0.5 | 3 | J |
| 18 | 504 | 6.8 | 117 | J | 5.6 | 47 | 247 | -1.4 | -4.6 | 2.1 | 2 | J |
| 19 | 492 | 6.6 | 115 | J | 5.8 | -1 | 287 | 1.2 | -3.4 | -1.8 | 4 | J |
| 20 | 486 | 7.3 | 116 | J | 6.6 | -41 | 319 | 3.6 | -0.6 | -5.1 | 2 | J |
| 21 | 493 | 7.7 | 124 | J | 6.9 | -27 | 304 | 3.3 | -2.5 | -5.1 | 2 | J |
| 22 | 479 | 7.7 | 119 | J | 6.8 | -9 | 319 | 4.6 | -2.8 | -3.0 | 3 | J |
| 23 | | | | | | | | | | | | |
| 24 | 494 | 7.7 | 124 | J | | | | | | | | |

MAR. 5, 1983 64

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 502 | 7.0 | 127 | J | 7.2 | 63 | 323 | 2.1 | -4.1 | 3.4 | 4 | J |
| 2 | | | | | | | | | | | | |
| 3 | 484 | 5.4 | 125 | J | 7.9 | -12 | 306 | 4.3 | -4.3 | -4.2 | 3 | J |
| 4 | 493 | 5.4 | 97 | J | 7.9 | 14 | 299 | 3.3 | -6.1 | -1.2 | 4 | J |
| 5 | 486 | 6.9 | 115 | J | 8.0 | -17 | 313 | 5.1 | -4.1 | -4.3 | 2 | J |
| 6 | 486 | 7.1 | 97 | J | 7.9 | -14 | 318 | 5.0 | -3.6 | -3.1 | 4 | J |
| 7 | 469 | 7.2 | 85 | J | 7.9 | 5 | 328 | 6.4 | -4.0 | -0.6 | 2 | J |
| 8 | 481 | 8.4 | 116 | J | 8.5 | -28 | 312 | 5.0 | -4.3 | -5.2 | 1 | J |
| 9 | 488 | 7.7 | 86 | J | 8.2 | -30 | 308 | 4.2 | -4.4 | -5.1 | 2 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 449 | 7.4 | 64 | J | 8.2 | -24 | 335 | 6.6 | -2.3 | -3.8 | 2 | J |
| 14 | 450 | 7.2 | 67 | J | 7.7 | -20 | 340 | 6.4 | -1.7 | -2.9 | 3 | J |
| 15 | 472 | 11.8 | 94 | J | 7.3 | -22 | 301 | 2.9 | -4.0 | -3.5 | 4 | J |
| 16 | 474 | 17.4 | 72 | J | 3.9 | 43 | 315 | 1.3 | -1.8 | 1.2 | 4 | J |
| 17 | 472 | 15.1 | 53 | J | 6.6 | -33 | 123 | -2.8 | 5.2 | -1.5 | 3 | J |
| 18 | 464 | 11.0 | 40 | J | 8.7 | -22 | 133 | -5.4 | 6.6 | -0.5 | 1 | J |
| 19 | 460 | 10.2 | 33 | J | 9.4 | -28 | 140 | -6.3 | 6.7 | -1.4 | 2 | J |
| 20 | 458 | 8.4 | 32 | J | 10.0 | -35 | 154 | -7.3 | 5.9 | -3.1 | 1 | J |
| 21 | 465 | 6.5 | 38 | J | 10.2 | -38 | 176 | -8.0 | 3.8 | -5.0 | 1 | J |
| 22 | 469 | 6.4 | 38 | J | 9.8 | -39 | 190 | -7.4 | 2.3 | -5.8 | 1 | J |
| 23 | 453 | 9.7 | 25 | J | 9.0 | -37 | 204 | -6.4 | 0.6 | -6.0 | 2 | J |
| 24 | 467 | 9.3 | 28 | J | 8.9 | -45 | 197 | -6.0 | 2.0 | -6.2 | 1 | J |

MAR. 6, 1983 65

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 449 | 10.4 | 23 | J | 8.1 | -26 | 209 | -6.3 | -1.0 | -4.8 | 1 | J |
| 2 | 424 | 7.7 | 42 | J | 6.0 | 15 | 31 | 3.9 | 1.3 | 2.3 | 4 | J |
| 3 | 422 | 7.3 | 57 | J | 6.0 | 38 | 1 | 3.9 | -1.4 | 2.7 | 3 | J |
| 4 | 429 | 6.3 | 47 | J | 7.0 | 55 | 8 | 3.9 | -2.0 | 5.2 | 2 | J |
| 5 | 414 | 7.4 | 29 | J | 7.3 | 51 | 25 | 4.1 | -0.5 | 5.9 | 1 | J |
| 6 | | | | | | | | | | | | |
| 7 | 422 | 8.6 | 33 | J | 7.3 | 49 | 48 | 3.1 | 1.7 | 6.2 | 2 | J |
| 8 | 418 | 8.3 | 29 | J | 7.3 | 33 | 47 | 3.9 | 3.1 | 4.7 | 2 | J |
| 9 | 421 | 7.9 | 45 | J | 7.6 | 27 | 38 | 5.1 | 3.1 | 4.1 | 2 | J |
| 10 | 412 | 11.5 | 25 | J | 7.5 | 37 | 24 | 5.5 | 1.5 | 4.9 | 1 | J |
| 11 | 410 | 13.0 | 24 | J | 7.2 | 35 | 34 | 4.8 | 2.4 | 4.6 | 1 | J |
| 12 | 408 | 11.9 | 22 | J | 7.2 | 35 | 36 | 4.7 | 2.5 | 4.7 | 1 | J |
| 13 | | | | | 7.0 | 36 | 41 | 4.2 | 2.7 | 4.7 | 1 | J |
| 14 | 406 | 10.3 | 22 | J | 6.7 | 30 | 39 | 4.4 | 2.6 | 4.0 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 377 | 8.6 | 41 | J | 5.8 | -6 | 18 | 5.0 | 1.7 | 0.4 | 2 | J |
| 22 | 389 | 8.7 | 63 | J | 5.9 | -8 | 44 | 3.8 | 3.4 | 1.4 | 3 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAR. 7, 1983 66

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 6.4 | 11 | 333 | 5.6 | -3.1 | 0.2 | 0 | J |
| 17 | 334 | 5.7 | 30 | J | 6.0 | 4 | 345 | 5.7 | -1.6 | -0.2 | 1 | J |
| 18 | 335 | 5.5 | 29 | J | 5.7 | 0 | 343 | 5.2 | -1.4 | -0.7 | 2 | J |
| 19 | 333 | 7.2 | 27 | J | 6.6 | 1 | 325 | 5.2 | -3.3 | -1.6 | 1 | J |
| 20 | 331 | 4.8 | 31 | J | 5.0 | 6 | 4 | 4.7 | 0.0 | 0.6 | 1 | J |
| 21 | 329 | 5.9 | 35 | J | 5.6 | 3 | 345 | 5.0 | -1.3 | -0.5 | 2 | J |
| 22 | 335 | 6.8 | 37 | J | 5.5 | 4 | 334 | 4.1 | -1.9 | -0.8 | 3 | J |
| 23 | 338 | 7.9 | 24 | J | 5.9 | -4 | 316 | 4.0 | -3.0 | -2.5 | 2 | J |
| 24 | 339 | 8.3 | 39 | J | 5.9 | -16 | 298 | 2.4 | -2.9 | -3.7 | 3 | J |

MAR. 8, 1983 67

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 341 | 8.4 | 24 | J | 5.8 | -7 | 297 | 2.5 | -3.7 | -3.2 | 2 | J |
| 2 | 336 | 7.7 | 22 | J | 5.7 | -9 | 303 | 2.9 | -3.4 | -3.1 | 2 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | |
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| 15 | | | | | | | | | | | | |
| 16 | 327 | 9.9 | 19 | J | 6.7 | -39 | 290 | 1.7 | -3.1 | -5.4 | 1 | J |
| 17 | 323 | 12.8 | 25 | J | 5.3 | -80 | 302 | 0.4 | 1.0 | -4.4 | 3 | J |
| 18 | | | | | 4.9 | -57 | 209 | -2.2 | 0.5 | -4.1 | 1 | J |
| 19 | | | | | 5.1 | -32 | 194 | -4.1 | 0.3 | -2.8 | 1 | J |
| 20 | | | | | 5.3 | -19 | 209 | -4.1 | -1.1 | -2.5 | 2 | J |
| 21 | 328 | 12.1 | 23 | J | 5.7 | -38 | 221 | -3.3 | -0.6 | -4.4 | 1 | J |
| 22 | 312 | 10.9 | 27 | J | 4.9 | -34 | 315 | 2.3 | -0.7 | -3.1 | 3 | J |
| 23 | 307 | 12.8 | 23 | J | 5.1 | -18 | 326 | 4.0 | -1.3 | -2.8 | 1 | J |
| 24 | 305 | 14.1 | 20 | J | 5.3 | -22 | 328 | 4.1 | -1.0 | -3.0 | 1 | J |

MAR. 9, 1983 68

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 307 | 15.4 | 18 | J | 5.8 | -23 | 327 | 4.2 | -1.1 | -3.3 | 2 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 306 | 37.0 | 15 | J | 10.1 | 12 | 161 | -8.0 | 2.0 | 2.6 | 2 | J |
| 17 | 334 | 39.3 | 29 | J | 11.8 | 25 | 94 | -0.7 | 7.3 | 7.9 | 5 | J |
| 18 | 329 | 49.1 | 33 | J | 8.6 | -39 | 163 | -1.3 | 0.8 | -0.8 | 9 | J |
| 19 | 329 | 48.9 | 27 | J | 12.2 | -31 | 163 | -7.4 | 4.2 | -3.0 | 9 | J |
| 20 | 352 | 10.4 | 93 | J | 15.7 | -8 | 121 | -8.0 | 12.5 | 4.8 | 2 | J |
| 21 | 351 | 8.1 | 67 | J | 15.7 | -12 | 126 | -8.9 | 12.1 | 3.9 | 2 | J |
| 22 | | | | | 15.4 | -12 | 130 | -9.7 | 11.4 | 3.8 | 1 | J |
| 23 | | | | | 13.8 | -6 | 139 | -9.9 | 7.9 | 3.7 | 4 | J |
| 24 | | | | | 11.6 | -7 | 126 | -6.7 | 8.3 | 4.0 | 2 | J |

MAR. 10, 1983 69

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 11.6 | -11 | 128 | -6.9 | 8.6 | 3.1 | 2 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 367 | 22.8 | 86 | J | 13.7 | 21 | 133 | -8.7 | 7.5 | 7.3 | 2 | J |
| 16 | 371 | 20.4 | 85 | J | 15.1 | 17 | 133 | -9.6 | 8.3 | 7.4 | 4 | J |
| 17 | 386 | 19.9 | 112 | J | 12.7 | 28 | 140 | -6.9 | 3.6 | 6.6 | 8 | J |
| 18 | 412 | 19.1 | 180 | J | 11.3 | 30 | 158 | -6.3 | 0.6 | 4.6 | 8 | J |
| 19 | 435 | 10.2 | 131 | J | 16.6 | -22 | 155 | -13.9 | 8.6 | -2.4 | 2 | J |
| 20 | | | | | | | | | | | | |
| 21 | 402 | 17.6 | 168 | J | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAR. 14, 1983 73

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 691 | 6.2 | 402 | L | | | | | | | | |
| 18 | 698 | 5.6 | 277 | J | | | | | | | | |
| 19 | 699 | 4.7 | 131 | J | | | | | | | | |
| 20 | 754 | 4.7 | 329 | J | | | | | | | | |
| 21 | 738 | 4.6 | 292 | J | | | | | | | | |
| 22 | | | | | | | | | | | | |
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03/15/83 – 03/22/83

MAR. 15, 1983 74

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 736 | 4.4 | 201 | J | 8.0 | 18 | 100 | -1.2 | 5.3 | 4.9 | 3 | J |
| 6 | 704 | 3.9 | 116 | J | 7.7 | 6 | 136 | -4.1 | 3.5 | 2.0 | 5 | J |
| 7 | 724 | 4.2 | 156 | J | 7.7 | 4 | 114 | -2.7 | 5.6 | 2.3 | 4 | J |
| 8 | 696 | 4.4 | 115 | J | 7.8 | -1 | 139 | -5.3 | 4.5 | 1.1 | 3 | J |
| 9 | 681 | 4.1 | 84 | J | 7.1 | 2 | 151 | -5.5 | 2.9 | 0.9 | 3 | J |
| 10 | | | | | 6.6 | -3 | 142 | -4.2 | 3.2 | 0.4 | 4 | J |
| 11 | | | | | 6.4 | 10 | 146 | -4.7 | 2.9 | 1.6 | 3 | J |
| 12 | 699 | 4.1 | 119 | J | 7.1 | 6 | 114 | -2.6 | 5.6 | 1.9 | 3 | J |
| 13 | 677 | 4.3 | 140 | J | 6.4 | -15 | 171 | -5.2 | 1.1 | -1.2 | 3 | J |
| 14 | 678 | 4.4 | 129 | J | 6.4 | -41 | 165 | -4.3 | 2.1 | -3.5 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 674 | 4.6 | 195 | J | 4.7 | 9 | 186 | -3.8 | -0.6 | 0.4 | 3 | J |
| 18 | | | | | 5.4 | 6 | 202 | -4.5 | -1.9 | -0.3 | 2 | J |
| 19 | 662 | 4.3 | 204 | J | 5.2 | 36 | 148 | -2.5 | 0.4 | 2.7 | 3 | J |
| 20 | 678 | 4.7 | 192 | J | 5.8 | -1 | 91 | -0.1 | 3.9 | 2.2 | 4 | J |
| 21 | 678 | 4.5 | 186 | J | 5.4 | -8 | 91 | -0.1 | 4.3 | 2.0 | 3 | J |
| 22 | 667 | 4.5 | 155 | J | 5.5 | -2 | 103 | -1.1 | 3.9 | 2.4 | 3 | J |
| 23 | 630 | 3.8 | 100 | J | 5.0 | -3 | 138 | -3.1 | 2.4 | 1.4 | 3 | J |
| 24 | 635 | 3.4 | 100 | J | 5.8 | 1 | 134 | -3.8 | 3.1 | 2.3 | 2 | J |

MAR. 16, 1983 75

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 616 | 3.0 | 87 | J | 6.1 | 7 | 132 | -3.9 | 3.2 | 3.0 | 2 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 620 | 3.4 | 110 | J | 4.9 | -30 | 106 | -1.1 | 4.2 | -0.5 | 2 | J |
| 6 | 623 | 3.9 | 113 | J | 5.0 | 3 | 90 | 0.0 | 3.7 | 1.7 | 3 | J |
| 7 | 596 | 4.0 | 134 | J | 5.0 | -5 | 113 | -1.7 | 4.0 | 0.9 | 2 | J |
| 8 | 586 | 4.5 | 129 | J | 6.0 | 11 | 113 | -1.8 | 3.8 | 2.0 | 4 | J |
| 9 | | | | | 6.1 | 42 | 103 | -1.0 | 3.3 | 5.0 | 0 | J |
| 10 | 585 | 3.9 | 126 | J | 4.9 | 32 | 89 | 0.1 | 2.6 | 2.6 | 3 | J |
| 11 | | | | | 5.6 | 19 | 128 | -2.9 | 3.2 | 2.3 | 3 | J |
| 12 | | | | | 5.5 | -39 | 138 | -2.8 | 3.1 | -2.4 | 3 | J |
| 13 | 584 | 3.2 | 94 | J | 5.7 | -55 | 173 | -2.5 | 1.1 | -3.4 | 4 | J |
| 14 | 594 | 3.4 | 95 | J | 5.6 | 48 | 55 | 2.1 | 1.9 | 4.7 | 1 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 535 | 4.0 | 117 | J | 6.5 | 43 | 199 | -4.3 | -3.3 | 3.0 | 2 | J |
| 20 | 535 | 3.8 | 87 | J | 6.3 | 24 | 208 | -4.7 | -3.3 | 0.7 | 2 | J |
| 21 | 533 | 3.9 | 109 | J | 6.3 | 53 | 180 | -3.2 | -2.3 | 3.6 | 3 | J |
| 22 | 517 | 3.8 | 83 | J | 6.8 | 25 | 201 | -5.4 | -3.2 | 1.1 | 2 | J |
| 23 | 503 | 3.9 | 46 | J | 7.6 | -7 | 182 | -6.9 | 0.3 | -0.8 | 3 | J |
| 24 | 533 | 3.7 | 69 | J | 6.0 | -17 | 131 | -3.1 | 3.7 | 0.8 | 3 | J |

MAR. 17, 1983 76

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 525 | 4.0 | 77 | J | 6.1 | -17 | 132 | -3.5 | 4.1 | 0.8 | 3 | J |
| 2 | 516 | 3.7 | 65 | J | 5.7 | -32 | 156 | -4.3 | 3.2 | -1.5 | 2 | J |
| 3 | 527 | 3.6 | 76 | J | 5.5 | -27 | 137 | -3.1 | 3.5 | -0.4 | 3 | J |
| 4 | 508 | 3.3 | 69 | J | 5.5 | -27 | 179 | -4.5 | 1.1 | -2.0 | 2 | J |
| 5 | 503 | 3.6 | 76 | J | 5.4 | -23 | 197 | -4.7 | -0.4 | -2.5 | 1 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 498 | 4.4 | 68 | J | 5.0 | 20 | 108 | -1.3 | 3.2 | 2.7 | 2 | J |
| 17 | 501 | 4.5 | 58 | J | 4.6 | 16 | 109 | -1.1 | 2.6 | 2.1 | 3 | J |
| 18 | 482 | 5.1 | 77 | J | 4.7 | 16 | 106 | -1.1 | 2.9 | 2.6 | 2 | J |
| 19 | 476 | 4.4 | 82 | J | 5.5 | -18 | 136 | -3.5 | 3.7 | 0.2 | 2 | J |
| 20 | 481 | 5.4 | 49 | J | 5.5 | -12 | 106 | -1.3 | 4.4 | 1.5 | 3 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAR. 18, 1983 77

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 458 | 6.7 | 79 | J | 5.5 | 12 | 136 | -2.9 | 1.9 | 2.2 | 4 | J |
| 3 | 464 | 6.6 | 59 | J | 5.8 | 10 | 132 | -3.4 | 2.8 | 2.6 | 3 | J |
| 4 | 434 | 6.8 | 131 | J | 5.9 | 3 | 170 | -5.2 | 0.7 | 0.7 | 3 | J |
| 5 | 434 | 6.7 | 99 | J | 6.0 | -11 | 165 | -4.9 | 1.6 | -0.4 | 3 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 422 | 10.0 | 34 | J | 5.8 | 9 | 176 | -4.4 | 0.2 | 0.8 | 4 | J |
| 13 | 454 | 12.6 | 53 | J | 5.6 | 47 | 105 | -0.9 | 2.4 | 4.3 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 454 | 14.7 | 45 | J | 7.2 | -34 | 326 | 4.4 | -1.6 | -4.4 | 3 | J |
| 17 | 451 | 10.4 | 41 | J | 8.3 | -53 | 324 | 4.0 | -0.2 | -7.2 | 1 | J |
| 18 | 448 | 11.3 | 72 | J | 8.8 | -19 | 322 | 6.1 | -3.2 | -4.5 | 3 | J |
| 19 | 468 | 10.2 | 75 | J | 8.8 | -15 | 322 | 5.9 | -3.1 | -3.9 | 4 | J |
| 20 | 474 | 10.4 | 93 | J | 10.3 | 25 | 322 | 7.2 | -7.0 | 0.8 | 2 | J |
| 21 | 482 | 9.7 | 130 | J | 10.9 | 43 | 342 | 7.4 | -5.9 | 4.8 | 3 | J |
| 22 | 525 | 6.1 | 163 | J | 11.0 | -4 | 322 | 8.1 | -4.8 | -4.2 | 4 | J |
| 23 | 556 | 7.1 | 150 | J | 11.3 | -3 | 305 | 6.4 | -7.2 | -5.7 | 2 | J |
| 24 | 539 | 6.4 | 103 | J | 11.6 | 2 | 315 | 8.0 | -6.8 | -4.2 | 2 | J |

MAR. 19, 1983 78

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 532 | 6.3 | 106 | J | 11.6 | -1 | 324 | 9.2 | -5.5 | -3.9 | 2 | J |
| 2 | 563 | 6.0 | 69 | J | 10.3 | 8 | 340 | 9.4 | -3.6 | -0.6 | 2 | J |
| 3 | 577 | 7.3 | 195 | J | 9.7 | -6 | 336 | 8.1 | -2.7 | -2.6 | 4 | J |
| 4 | 591 | 8.4 | 240 | J | 9.6 | -22 | 331 | 6.7 | -1.9 | -4.5 | 5 | J |
| 5 | | | | | | | | | | | | |
| 6 | 581 | 8.4 | 171 | J | 9.6 | 12 | 323 | 7.1 | -5.7 | -0.2 | 3 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 535 | 8.0 | 130 | J | 10.7 | 5 | 326 | 7.9 | -5.3 | -1.0 | 4 | J |
| 17 | 549 | 8.0 | 126 | J | 10.8 | 4 | 309 | 6.6 | -7.8 | -2.5 | 2 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
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MAR. 20, 1983 79

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 546 | 5.6 | 105 | J | 6.9 | -13 | 314 | 4.6 | -4.0 | -3.0 | 1 | J |
| 17 | 544 | 5.7 | 106 | J | 7.0 | -25 | 318 | 4.5 | -2.7 | -4.2 | 2 | J |
| 18 | 553 | 5.8 | 122 | J | 6.6 | 1 | 300 | 2.6 | -4.2 | -1.9 | 4 | J |
| 19 | 568 | 6.6 | 131 | J | 6.2 | -17 | 276 | 0.5 | -3.5 | -3.6 | 4 | J |
| 20 | 567 | 6.7 | 115 | J | 5.8 | -47 | 281 | 0.6 | -0.9 | -4.3 | 4 | J |
| 21 | 571 | 6.4 | 128 | J | 5.4 | -39 | 284 | 0.8 | -1.2 | -4.0 | 3 | J |
| 22 | 554 | 6.6 | 134 | J | 5.1 | 10 | 353 | 4.2 | -0.8 | 0.3 | 3 | J |
| 23 | 552 | 6.5 | 120 | J | 5.4 | 13 | 12 | 4.1 | 0.2 | 1.3 | 3 | J |
| 24 | 547 | 6.7 | 106 | J | 5.9 | 13 | 347 | 4.9 | -1.6 | 0.3 | 3 | J |

MAR. 21, 1983 80

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 622 | 6.8 | 122 | J | 6.7 | -12 | 322 | 4.3 | -2.2 | -2.8 | 4 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 568 | 4.7 | 119 | J | 4.6 | 27 | 18 | 2.8 | 0.6 | 1.7 | 3 | J |
| 11 | 549 | 5.5 | 138 | J | 4.4 | -5 | 358 | 4.0 | -0.1 | -0.4 | 2 | J |
| 12 | 534 | 6.5 | 207 | J | 4.9 | 0 | 352 | 4.7 | -0.6 | -0.1 | 1 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAR. 22, 1983 81

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 395 | 7.4 | 59 | J | 5.2 | -3 | 325 | 4.2 | -2.7 | -1.2 | 1 | J |
| 17 | 394 | 7.2 | 56 | J | 5.4 | 8 | 319 | 3.4 | -2.9 | -0.5 | 3 | J |
| 18 | 403 | 7.1 | 45 | J | 5.8 | 22 | 306 | 2.9 | -4.5 | 0.1 | 2 | J |
| 19 | 386 | 7.8 | 61 | J | 6.2 | -6 | 334 | 4.9 | -1.8 | -1.6 | 3 | J |
| 20 | 394 | 6.9 | 41 | J | 5.5 | -19 | 316 | 3.0 | -1.7 | -2.7 | 3 | J |
| 21 | 404 | 6.4 | 29 | J | 5.5 | -3 | 274 | 0.3 | -4.0 | -2.9 | 2 | J |
| 22 | 399 | 6.9 | 33 | J | | | | | | | | |
| 23 | 324 | 5.9 | 66 | L | | | | | | | | |
| 24 | 354 | 6.7 | 60 | L | | | | | | | | |

# 03/23/83 – 04/02/83

```
HR   VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000  SC  MAGN LAT LON                    SC

                       MAR. 23, 1983                         82

 1   366  6.2   35  L
 2   354  8.9   40  L
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     VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000  SC  MAGN LAT LON                    SC

                       MAR. 27, 1983                         86

 1
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 9
10
11   363 11.3   34  J     5.6  11 111   -1.4   3.5   1.5  4  J
12   373 12.4   27  J     5.2  -6  83    0.6   4.5   0.5  2  J
13   361 12.0   39  J     5.9  18 123   -2.3   3.1   2.1  4  J
14                        6.2   3 114   -2.5   5.3   1.7  1  J
15
16
17
18
19
20
21
22   373 20.6   40  J     7.4 -28  35    5.4   5.1  -0.8  0  J
23   373 21.3   32  J     7.6 -21  43    5.1   5.5   0.5  2  J
24
```

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                       MAR. 28, 1983                         87

 1
 2
 3
 4
 5   357 51.7   43  J     5.0 -20  35    2.0   1.6  -0.2  5  J
 6   356 48.7   34  J     7.3   1 110   -2.4   6.0   2.4  3  J
 7                        7.0 -19 117   -2.8   6.0  -0.3  3  J
 8                        7.4  34 191   -2.8  -1.0   1.7  8  J
 9
10
11
12
13
14   524 13.9  192  J    11.3   4 289    3.5 -10.0  -1.8  3  J
15   499 12.1  155  J    11.6 -15 318    7.5  -5.7  -4.6  5  J
16   500  9.9  117  J    11.8 -23 341    9.7  -1.7  -5.2  4  J
17
18   504 10.1  106  J    11.8 -18 326    9.0  -3.9  -5.8  3  J
19   498 10.7  108  J    12.1   4 345   10.5  -2.8  -0.7  5  J
20   492 11.7  136  J    12.3  -4 350   10.9  -1.3  -1.7  5  J
21   496 12.2  136  J    13.0  -2 324    9.7  -5.7  -4.2  5  J
22   508 13.0  187  J    12.6  -6 319    8.6  -5.5  -5.2  5  J
23
24
```

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                       MAR. 29, 1983                         88

 1
 2
 3
 4
 5   493 15.7  201  J    11.5  51 298    3.1  -8.6   5.0  5  J
 6   483 16.0  193  J    12.0   1 289    3.6  -9.8  -3.5  5  J
 7   485 15.1  193  J    12.0  -1 298    5.1  -9.1  -3.2  5  J
 8
 9
10
11
12
13
14
15   450  8.2  118  J     8.6   4 325    6.7  -4.7  -0.8  3  J
16   483  9.9  113  J     9.5 -19 291    2.7  -5.9  -4.9  5  J
17   469 10.1  118  J     9.5   6 317    5.4  -4.9  -1.2  6  J
18   467 10.3  110  J     9.5   2 306    5.3  -6.8  -2.9  3  J
19
20   449  8.2   81  J     8.9  23 357    7.6  -2.0   2.6  3  J
21   462  7.9   86  J
22   474  8.8  112  J     9.0  -6 337    4.8  -1.4  -1.6  7  J
23   475  8.0   88  J     8.4 -14 311    5.1  -3.7  -4.9  3  J
24   498  9.0   67  J     9.3  13 356    8.8  -1.7   1.3  2  J
```

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                       MAR. 30, 1983                         89

 1   501  8.6   67  J     9.3  12   8    8.7  -0.0   2.2  3  J
 2   500  8.8   88  J     9.6   2   7    8.4   0.7   0.8  4  J
 3   500  9.2  116  J     9.3 -17  34    6.7   5.2   0.1  4  J
 4                       10.2  -8 322    7.6  -4.7  -3.9  3  J
 5   479 10.8  150  J     8.7   9  10    7.3   0.7   1.6  4  J
 6   502  9.7  132  J     8.6  12 306    3.9  -5.5  -0.6  5  J
 7                        9.5  18 338    5.4  -7.4   0.6  2  J
 8
 9
10
11   520  8.9  161  J     9.0  46 280    1.0  -7.0   4.9  3  J
12   523  6.4  116  J     8.4  35 296    2.4  -5.5   2.7  5  J
13   511  5.9   53  J     8.8  26 306    4.2  -6.4   2.1  4  J
14                        8.0  -1 317    5.6  -5.1  -1.4  2  J
15
16
17
18   560  4.4   59  J     6.6   3 344    6.1  -1.7  -0.5  1  J
19   568  5.0   72  J     7.8   7 318    5.4  -4.7  -1.5  3  J
20
21
22
23
24
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                       MAR. 31, 1983                         90

 1
 2   565  5.5  211  J     6.3 -51 326    1.8   0.4  -3.0  5  J
 3   532  5.2  155  J     6.4  20 341    4.1  -2.0   0.7  4  J
 4   545  4.8  179  J     6.6 -40 343    3.7   0.4  -3.4  4  J
 5
 6                        7.0  40  43    3.8   1.8   5.3  2  J
 7
 8
 9
10   544  4.4  260  J     7.0 -49 309    2.7  -2.2  -5.5  2  J
11                        7.3 -57 324    3.2  -1.1  -6.5  0  J
12
13                        7.0 -15 314    4.4  -4.1  -2.7  2  J
14   534  5.4  140  J     6.9  10 311    2.3  -2.7  -0.1  6  J
15                        7.0  59 245   -1.5  -4.8   4.8  0  J
16   515  4.8  131  J     6.2 -29   0    3.6   0.7  -1.9  5  J
17   509  4.4   94  J     6.7  38  23    3.8   0.3   3.6  4  J
18                        6.2 -17 341    4.2  -0.7  -1.8  4  J
19   507  4.5   75  J     7.2 -23 323    5.1  -2.1  -4.2  2  J
20   510  5.0   72  J     7.4 -24 330    5.7  -1.3  -4.2  2  J
21                        7.5  -3 355    5.9  -0.3  -0.5  5  J
22   514  4.4   79  J     7.3  12  13    6.2   0.4   1.9  3  J
23   510  5.5  100  J     7.7   3  25    6.2   2.2   1.9  3  J
24   520  5.1  105  J     7.8  18  26    6.2   1.2   3.6  3  J
```

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                       APR.  1, 1983                         91

 1   511  5.0  105  J     7.9 -10  38    5.7   4.4   1.4  3  J
 2                        8.0  -4  58    4.1   5.8   3.0  3  J
 3
 4
 5   509  4.8   85  J     8.3 -14  21    7.0   3.2  -0.6  3  J
 6
 7   532  5.3  305  J     7.9 -23 346    6.1  -0.6  -3.0  4  J
 8
 9
10
11
12
13
14
15
16
17
18                        7.1   4  17    6.4   1.6   1.3  2  J
19   502  2.6   89  J     8.2 -26  13    6.9   3.0  -2.3  2  J
20   501  2.4   86  J     8.0 -22   8    7.1   2.3  -2.0  2  J
21   483  2.7   97  J     7.2   1 352    6.9  -0.9  -0.4  2  J
22   499  3.0  119  J     6.8   1 351    6.3  -0.9  -0.5  2  J
23   498  3.0   97  J     7.5  -5 338    6.0  -1.7  -1.8  4  J
24   510  3.2  100  J     7.4 -16 317    4.4  -2.4  -3.8  4  J
```

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                       APR.  2, 1983                         92

 1   503  2.8   91  J     7.4  -9 299    2.7  -3.6  -3.4  5  J
 2   491  3.0  113  J     7.2   1 320    4.6  -3.3  -1.9  4  J
 3   491  3.4  108  J     7.4  12 307    4.0  -5.3  -1.4  3  J
 4   496  3.4  141  J     7.4   3 302    3.7  -5.4  -2.3  3  J
 5   469  2.6   72  J     7.6   0 320    5.5  -4.2  -1.9  3  J
 6   475  3.0  101  J     7.8  -5 299    3.7  -6.0  -3.0  2  J
 7   482  2.7   75  J     7.8 -10 308    4.4  -5.0  -2.9  3  J
 8   495  2.9   95  J     7.4  10 317    3.7  -3.6  -0.1  5  J
 9                        7.6   4 324    5.6  -4.0  -0.5  3  J
10   468  3.3   68  J
11   472  3.6   68  J     8.2  -5 319    5.2  -4.3  -1.5  4  J
12   458  4.3   78  J     8.5   7 312    5.2  -5.8  -0.2  3  J
13   475  3.9   67  J     8.5  24 311    4.8  -6.1   2.0  3  J
14
15
16
17   552 10.8   65  J     6.1 -41  58    2.4   5.0  -2.2  1  J
18   545  9.7   72  J     5.6 -36  52    2.7   4.6  -1.4  1  J
19   536  8.2   66  J     6.0 -36  42    3.5   4.5  -1.5  1  J
20                        6.3 -22  34    4.7   3.9  -0.3  2  J
21   516  6.2   85  J     6.7  -8  14    6.2   1.8   0.1  2  J
22   513  7.2   96  J     7.0 -12   7    6.7   1.5  -0.7  1  J
23                        6.4 -21   3    5.9   1.5  -1.7  1  J
24   441  2.0   59  J     6.6 -32 357    5.3   1.6  -2.9  2  J
```

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APR. 3, 1983 93

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 421 | 3.1 | 45 | J | 6.5 | -30 | 4 | 5.5 | 2.1 | -2.5 | 1 | J |
| 2 |  |  |  |  | 6.3 | -25 | 337 | 4.9 | -0.5 | -3.2 | 2 | J |
| 3 |  |  |  |  | 6.0 | -7 | 310 | 3.4 | -3.2 | -2.5 | 3 | J |
| 4 |  |  |  |  | 5.7 | -32 | 331 | 3.8 | -0.7 | -3.4 | 3 | J |
| 5 |  |  |  |  | 6.3 | -8 | 295 | 2.3 | -4.3 | -2.7 | 3 | J |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 447 | 7.5 | 141 | J | 5.1 | -4 | 297 | 1.7 | -3.1 | -1.2 | 4 | J |
| 8 | 450 | 6.1 | 109 | J | 4.9 | 42 | 333 | 1.7 | -1.3 | 1.4 | 4 | J |
| 9 | 448 | 5.6 | 114 | J | 5.7 | 9 | 313 | 3.2 | -3.5 | -0.1 | 3 | J |
| 10 |  |  |  |  | 5.7 | 6 | 298 | 2.1 | -3.9 | -0.4 | 4 | J |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 469 | 4.3 | 63 | J | 5.8 | -46 | 282 | 0.8 | -2.8 | -4.5 | 2 | J |
| 13 |  |  |  |  | 5.4 | 9 | 297 | 2.3 | -4.6 | -0.2 | 2 | J |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  | 3.7 | 21 | 319 | 2.5 | -2.4 | 0.5 | 1 | J |
| 17 | 420 | 3.3 | 51 | J | 4.0 | 55 | 339 | 1.8 | -1.7 | 2.3 | 2 | J |
| 18 | 413 | 3.6 | 59 | J | 4.2 | 48 | 332 | 2.2 | -2.2 | 2.0 | 2 | J |
| 19 | 415 | 3.5 | 47 | J | 4.1 | 38 | 331 | 2.5 | -2.3 | 1.3 | 2 | J |
| 20 | 402 | 4.7 | 45 | J | 4.3 | 45 | 360 | 2.1 | -1.1 | 1.8 | 3 | J |
| 21 | 403 | 4.1 | 41 | J | 4.6 | -1 | 296 | 1.8 | -3.1 | -2.0 | 2 | J |
| 22 | 406 | 7.0 | 26 | J | 5.1 | -68 | 185 | -1.9 | 2.4 | -3.9 | 1 | J |
| 23 | 409 | 7.1 | 28 | J | 5.1 | -56 | 212 | -2.3 | 1.1 | -4.2 | 1 | J |
| 24 | 402 | 7.8 | 35 | J |  |  |  |  |  |  |  |  |

APR. 4, 1983 94

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 399 | 9.0 | 40 | J | 4.8 | -60 | 171 | -2.3 | 2.5 | -3.2 | 1 | J |
| 2 | 395 | 10.2 | 44 | J | 4.7 | -60 | 187 | -2.3 | 1.8 | -3.6 | 1 | J |
| 3 | 387 | 11.3 | 40 | J | 5.2 | -41 | 215 | -2.8 | -0.3 | -3.5 | 2 | J |
| 4 | 379 | 11.9 | 31 | J | 5.8 | -39 | 220 | -3.2 | -0.9 | -4.2 | 2 | J |
| 5 | 381 | 11.3 | 31 | J | 5.1 | -46 | 213 | -2.8 | -0.3 | -3.9 | 2 | J |
| 6 | 392 | 12.2 | 30 | J | 5.5 | -46 | 216 | -2.5 | -0.6 | -3.7 | 3 | J |
| 7 | 375 | 13.2 | 28 | J | 5.6 | -40 | 208 | -3.5 | -0.8 | -3.8 | 2 | J |
| 8 | 375 | 14.6 | 28 | J | 5.6 | -45 | 205 | -3.2 | -0.5 | -3.8 | 2 | J |
| 9 | 374 | 15.4 | 25 | J | 6.1 | -40 | 212 | -3.6 | -1.4 | -4.0 | 2 | J |
| 10 | 371 | 17.6 | 22 | J | 6.3 | -27 | 215 | -4.1 | -2.3 | -3.1 | 2 | J |
| 11 | 374 | 19.5 | 22 | J | 5.9 | -47 | 204 | -3.5 | -0.7 | -4.3 | 1 | J |
| 12 | 369 | 20.8 | 26 | J | 5.9 | -40 | 197 | -4.0 | -0.5 | -3.7 | 2 | J |
| 13 | 362 | 20.1 | 37 | J |  |  |  |  |  |  |  |  |
| 14 | 355 | 19.8 | 60 | J |  |  |  |  |  |  |  |  |
| 15 | 369 | 22.3 | 28 | L | 6.0 | -66 | 242 | -1.1 | -0.5 | -5.5 | 2 | J |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

APR. 5, 1983 95

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 21.5 | 327 | L |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

APR. 8, 1983 98

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 686 | 4.2 | 114 | J | 7.1 | 17 | 176 | -6.3 | -0.7 | 1.9 | 2 | J |
| 23 | 703 | 4.0 | 237 | J | 6.3 | -36 | 153 | -3.5 | 3.1 | -1.4 | 4 | J |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

APR. 9, 1983 99

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 735 | 4.9 | 258 | J | 6.8 | 1 | 119 | -2.4 | 4.1 | 1.2 | 5 | J |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 788 | 2.9 | 192 | J | 5.4 | -1 | 199 | -4.3 | -1.2 | -0.9 | 3 | J |
| 23 | 781 | 3.1 | 179 | J | 5.5 | -20 | 171 | -4.0 | 1.3 | -0.9 | 3 | J |
| 24 | 774 | 3.2 | 179 | J | 5.9 | 3 | 152 | -4.4 | 1.8 | 1.5 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 758 | 2.9 | 143 | J | 6.1 | 9 | 167 | -5.1 | 0.6 | 1.3 | 3 | J |
| 2 | 748 | 2.6 | 162 | J | 6.0 | 2 | 146 | -4.4 | 2.5 | 1.7 | 3 | J |
| 3 | 742 | 2.6 | 258 | J | 5.5 | 1 | 177 | -4.8 | 0.2 | 0.2 | 3 | J |
| 4 | 742 | 2.1 | 184 | J | 5.0 | 10 | 159 | -4.3 | 1.1 | 1.5 | 1 | J |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 710 | 3.3 | 216 | J | 5.8 | 7 | 152 | -4.6 | 2.3 | 1.1 | 3 | J |
| 12 | 759 | 2.9 | 216 | J | 5.8 | -29 | 111 | -1.5 | 4.3 | -1.6 | 3 | J |
| 13 |  |  |  |  | 5.6 | 14 | 167 | -4.9 | 0.9 | 1.5 | 2 | J |
| 14 | 710 | 3.5 | 175 | J | 5.8 | 6 | 131 | -3.3 | 3.6 | 1.4 | 3 | J |
| 15 | 700 | 3.2 | 98 | J | 5.5 | 24 | 174 | -4.7 | -0.1 | 2.2 | 2 | J |
| 16 | 701 | 3.5 | 113 | J | 5.6 | -24 | 155 | -4.0 | 2.4 | -1.3 | 3 | J |
| 17 | 696 | 3.6 | 95 | J | 5.5 | -13 | 157 | -4.2 | 2.1 | -0.3 | 3 | J |
| 18 | 702 | 3.8 | 138 | J | 6.0 | 31 | 134 | -2.9 | 1.7 | 3.5 | 3 | J |
| 19 | 729 | 3.9 | 162 | J | 6.0 | -24 | 92 | -0.2 | 5.4 | 0.3 | 2 | J |
| 20 | 695 | 3.6 | 132 | J | 5.6 | -18 | 151 | -3.2 | 2.2 | -0.1 | 4 | J |
| 21 | 679 | 3.6 | 124 | J | 5.9 | 42 | 192 | -3.9 | -2.6 | 2.6 | 2 | J |
| 22 | 676 | 3.8 | 131 | J | 5.8 | 5 | 179 | -4.4 | -0.1 | 0.4 | 4 | J |
| 23 | 699 | 3.6 | 180 | J | 5.8 | 2 | 139 | -3.6 | 2.5 | 1.9 | 3 | J |
| 24 | 693 | 3.6 | 144 | J | 5.5 | -3 | 147 | -3.7 | 2.1 | 1.1 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 673 | 3.7 | 138 | J | 5.5 | -4 | 122 | -2.2 | 3.1 | 1.6 | 4 | J |
| 2 | 623 | 3.6 | 75 | J | 5.8 | 17 | 180 | -5.5 | -0.8 | 1.4 | 1 | J |
| 3 | 622 | 3.2 | 72 | J | 5.0 | 10 | 162 | -4.5 | 0.9 | 1.4 | 1 | J |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  | 5.7 | 7 | 185 | -5.6 | -0.7 | 0.5 | 1 | J |
| 6 |  |  |  |  | 5.4 | 0 | 143 | -3.8 | 2.7 | 0.9 | 3 | J |
| 7 |  |  |  |  | 6.1 | 13 | 144 | -4.7 | 2.9 | 2.2 | 1 | J |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  | 5.8 | 27 | 166 | -4.6 | 0.7 | 2.6 | 3 | J |
| 12 | 582 | 4.0 | 81 | J | 5.9 | 9 | 150 | -4.3 | 2.3 | 1.2 | 3 | J |
| 13 | 558 | 3.5 | 59 | J | 5.8 | 24 | 145 | -3.8 | 2.2 | 2.6 | 3 | J |
| 14 | 562 | 4.1 | 58 | J | 6.0 | 22 | 157 | -5.0 | 1.5 | 2.6 | 1 | J |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 544 | 3.9 | 63 | J | 6.3 | 16 | 169 | -5.9 | 0.5 | 2.0 | 1 | J |
| 17 | 540 | 3.2 | 45 | J | 6.4 | 9 | 184 | -6.2 | -0.8 | 0.8 | 1 | J |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | 527 | 4.1 | 107 | J | 5.9 | 21 | 158 | -4.9 | 0.8 | 2.7 | 2 | J |
| 20 | 543 | 4.5 | 153 | J | 5.6 | 3 | 187 | -4.2 | -0.6 | -0.1 | 4 | J |
| 21 | 528 | 4.5 | 81 | J | 5.8 | 18 | 161 | -4.5 | 0.5 | 2.1 | 3 | J |
| 22 | 538 | 4.5 | 68 | J | 5.6 | 12 | 126 | -2.6 | 2.5 | 2.7 | 3 | J |
| 23 | 515 | 4.1 | 61 | J | 5.1 | 7 | 153 | -4.2 | 1.5 | 1.6 | 2 | J |
| 24 | 523 | 4.2 | 69 | J | 5.4 | 17 | 125 | -2.6 | 2.4 | 3.2 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 526 | 3.9 | 89 | J | 5.3 | 17 | 157 | -3.6 | 0.7 | 1.8 | 3 | J |
| 2 | 561 | 4.6 | 159 | J | 3.7 | -49 | 205 | -1.8 | 0.4 | -2.4 | 2 | J |
| 3 | 532 | 3.0 | 62 | J | 5.1 | 14 | 137 | -2.9 | 1.9 | 2.1 | 3 | J |
| 4 | 549 | 3.5 | 78 | J | 5.5 | -29 | 127 | -2.7 | 4.4 | -0.7 | 2 | J |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  | 5.1 | -20 | 159 | -4.1 | 2.0 | -1.0 | 2 | J |
| 7 |  |  |  |  | 5.4 | -8 | 154 | -3.8 | 2.0 | -0.0 | 3 | J |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 492 | 4.0 | 43 | J | 6.3 | -18 | 163 | -5.2 | 1.9 | -1.4 | 3 | J |
| 10 | 487 | 4.7 | 72 | L | 7.0 | 27 | 130 | -4.0 | 4.0 | 4.0 | 1 | J |
| 11 | 487 | 5.2 | 56 | J | 7.8 | 24 | 138 | -4.5 | 3.5 | 3.4 | 4 | J |
| 12 | 551 | 8.7 | 140 | J | 14.2 | -1 | 141 | -9.2 | 7.3 | 1.1 | 8 | J |
| 13 | 558 | 8.6 | 287 | J | 12.5 | 19 | 134 | -5.8 | 5.3 | 4.0 | 9 | J |
| 14 | 515 | 7.1 | 190 | J | 11.7 | 33 | 167 | -8.9 | 0.7 | 6.2 | 4 | J |
| 15 | 504 | 7.6 | 210 | J | 11.4 | 11 | 155 | -8.7 | 3.4 | 2.9 | 6 | J |
| 16 | 486 | 7.4 | 143 | J | 11.3 | -7 | 158 | -9.0 | 3.8 | 0.0 | 5 | J |
| 17 | 478 | 7.5 | 106 | J | 11.3 | 1 | 170 | -9.4 | 1.5 | 0.8 | 6 | J |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 525 | 10.9 | 155 | J | 11.7 | -6 | 110 | -3.9 | 9.7 | 4.6 | 2 | J |
| 22 | 515 | 9.9 | 122 | J | 11.4 | -3 | 124 | -5.1 | 6.6 | 3.7 | 7 | J |
| 23 | 508 | 6.1 | 72 | J | 10.4 | 6 | 139 | -6.2 | 4.0 | 3.7 | 6 | J |
| 24 | 490 | 4.7 | 71 | J | 9.1 | -30 | 150 | -6.5 | 5.5 | -1.6 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | 3.5 | -52 | 269 | -0.0 | -0.6 | -3.4 | 1 | J |
| 4 | 554 | 6.4 | 275 | J | 5.5 | 23 | 162 | -3.6 | 0.4 | 1.9 | 4 | J |
| 5 | 562 | 7.3 | 126 | J | 4.5 | -80 | 252 | -0.2 | 0.8 | -3.6 | 3 | J |
| 6 | 568 | 7.6 | 116 | J | 4.4 | 72 | 216 | -1.0 | -1.9 | 3.4 | 2 | J |
| 7 | | | | | 2.7 | 7 | 259 | -0.5 | -2.6 | -0.4 | 0 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 624 | 6.8 | 201 | J | 13.0 | 51 | 108 | -2.5 | 5.6 | 11.1 | 3 | J |
| 11 | 609 | 7.2 | 280 | J | 14.0 | 18 | 103 | -2.8 | 11.3 | 6.2 | 5 | J |
| 12 | 620 | 21.9 | 199 | J | 9.5 | -78 | 140 | -1.3 | 2.5 | -7.8 | 5 | J |
| 13 | 631 | 19.3 | 159 | J | 9.5 | -25 | 122 | -4.4 | 7.6 | -2.4 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | 620 | 7.6 | 121 | J | 9.2 | 52 | 204 | -4.9 | -3.9 | 6.1 | 2 | J |
| 16 | 613 | 11.1 | 89 | J | 8.1 | 55 | 200 | -4.2 | -3.4 | 5.6 | 2 | J |
| 17 | 618 | 6.6 | 89 | J | 9.3 | 65 | 220 | -2.9 | -5.3 | 6.8 | 2 | J |
| 18 | 626 | 9.2 | 113 | J | 8.9 | 36 | 224 | -5.0 | -6.5 | 2.6 | 2 | J |
| 19 | 601 | 8.9 | 125 | J | 8.7 | 49 | 252 | -1.7 | -7.6 | 3.2 | 2 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 9.7 | 46 | 255 | -1.6 | -8.3 | 2.3 | 4 | J |
| 22 | 555 | 8.1 | 190 | J | 10.5 | 59 | 272 | 0.2 | -8.9 | 4.4 | 4 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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104

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 12.9 | 35 | 274 | 0.7 | -11.6 | 0.7 | 6 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 531 | 7.6 | 197 | J | | | | | | | | |
| 5 | | | | | 11.4 | -14 | 160 | -1.1 | 0.5 | -0.1 | 12 | J |
| 6 | | | | | | | | | | | | |
| 7 | 587 | 9.3 | 257 | J | 10.0 | -14 | 317 | 6.8 | -5.4 | -4.0 | 3 | J |
| 8 | | | | | 10.1 | -2 | 317 | 6.9 | -6.2 | -1.9 | 3 | J |
| 9 | | | | | 9.8 | -15 | 319 | 6.8 | -5.3 | -3.6 | 3 | J |
| 10 | | | | | 9.3 | -46 | 340 | 5.7 | -0.9 | -6.6 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 717 | 4.0 | 140 | J | 6.7 | 12 | 8 | 5.2 | 0.0 | 1.3 | 4 | J |
| 24 | 750 | 5.7 | 338 | J | 7.7 | -31 | 303 | 2.6 | -1.8 | -4.5 | 5 | J |

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105

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 8.8 | -60 | 257 | -1.0 | 0.3 | -8.5 | 2 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | 9.6 | -30 | 352 | 3.2 | 0.1 | -1.9 | 9 | J |
| 8 | | | | | 9.8 | -11 | 344 | 8.0 | -1.9 | -2.1 | 5 | J |
| 9 | 700 | 4.9 | 208 | J | 9.5 | -20 | 302 | 4.2 | -6.0 | -4.2 | 4 | J |
| 10 | 693 | 4.9 | 306 | J | 7.9 | -21 | 353 | 4.5 | -0.2 | -1.8 | 6 | J |
| 11 | 688 | 4.7 | 237 | J | 7.9 | -17 | 310 | 3.5 | -3.8 | -2.4 | 6 | J |
| 12 | | | | | 7.5 | -3 | 290 | 2.4 | -6.3 | -1.5 | 3 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | 6.4 | -15 | 348 | 4.9 | -0.7 | -1.5 | 4 | J |
| 15 | | | | | | | | | | | | |
| 16 | 681 | 4.2 | 171 | J | 7.1 | -20 | 320 | 4.7 | -3.1 | -3.3 | 3 | J |
| 17 | 690 | 4.0 | 151 | J | 6.9 | -19 | 310 | 3.8 | -3.5 | -3.5 | 3 | J |
| 18 | 687 | 4.1 | 179 | J | 6.6 | -24 | 340 | 3.8 | -0.5 | -2.2 | 5 | J |
| 19 | 702 | 4.1 | 242 | J | 6.2 | -15 | 300 | 2.8 | -3.6 | -3.5 | 2 | J |
| 20 | 685 | 4.0 | 141 | J | 6.9 | 29 | 3 | 5.2 | -1.2 | 2.7 | 3 | J |
| 21 | 670 | 4.0 | 184 | J | | | | | | | | |
| 22 | 669 | 3.8 | 210 | J | 7.1 | 9 | 16 | 6.0 | 0.9 | 1.8 | 3 | J |
| 23 | 661 | 3.6 | 177 | J | 7.1 | -13 | 4 | 6.2 | 1.1 | -1.0 | 3 | J |
| 24 | 673 | 3.8 | 166 | J | 7.0 | -20 | 355 | 5.6 | 0.7 | -2.0 | 4 | J |

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106

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 693 | 3.0 | 185 | J | 6.3 | -23 | 340 | 4.7 | -0.4 | -2.7 | 3 | J |
| 3 | 718 | 3.1 | 264 | J | 6.3 | 7 | 301 | 2.4 | -3.7 | -1.3 | 4 | J |
| 4 | 725 | 3.0 | 232 | J | 6.3 | 3 | 282 | 1.1 | -4.8 | -1.9 | 3 | J |
| 5 | 690 | 2.7 | 183 | J | 5.7 | -5 | 13 | 5.0 | 1.2 | 0.0 | 2 | J |
| 6 | 715 | 2.9 | 192 | J | 6.3 | 2 | 301 | 2.8 | -4.4 | -1.3 | 3 | J |
| 7 | 706 | 2.9 | 145 | J | 6.6 | -2 | 314 | 4.4 | -4.3 | -1.5 | 2 | J |
| 8 | 677 | 2.8 | 175 | J | 6.7 | -3 | 356 | 5.8 | -0.3 | -0.4 | 3 | J |
| 9 | 688 | 2.5 | 131 | J | 6.2 | 2 | 340 | 5.2 | -1.9 | -0.2 | 3 | J |
| 10 | 701 | 2.5 | 116 | J | 6.6 | 22 | 2 | 5.6 | -0.2 | 2.2 | 3 | J |
| 11 | 703 | 3.0 | 159 | J | 6.1 | -24 | 0 | 4.8 | 0.4 | -2.1 | 3 | J |
| 12 | 718 | 3.4 | 237 | J | 6.5 | -23 | 319 | 3.5 | -2.7 | -2.5 | 4 | J |
| 13 | 709 | 3.3 | 182 | J | 6.9 | 6 | 297 | 2.8 | -5.4 | -0.4 | 3 | J |
| 14 | 682 | 3.5 | 199 | J | 6.6 | -17 | 301 | 2.7 | -4.0 | -2.5 | 4 | J |
| 15 | 702 | 3.5 | 186 | J | 6.7 | 28 | 315 | 3.7 | -4.3 | 1.7 | 3 | J |
| 16 | 708 | 3.1 | 160 | J | 6.3 | 23 | 291 | 1.7 | -4.8 | 0.6 | 4 | J |
| 17 | | | | | | | | | | | | |
| 18 | 590 | 4.0 | 147 | J | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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111

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 347 | 8.8 | 31 | J | | | | | | | | |
| 17 | 343 | 8.9 | 40 | J | 6.5 | 13 | 310 | 3.6 | -4.5 | -0.2 | 3 | J |
| 18 | 328 | 8.8 | 33 | J | 6.0 | 6 | 343 | 5.5 | -1.8 | -0.1 | 1 | J |
| 19 | 338 | 9.0 | 27 | J | 6.3 | 0 | 328 | 4.4 | -2.5 | -1.2 | 3 | J |
| 20 | 344 | 10.4 | 34 | J | 5.8 | -35 | 308 | 2.5 | -1.5 | -4.1 | 3 | J |
| 21 | 370 | 13.7 | 30 | J | 7.7 | -30 | 264 | -0.6 | -3.4 | -6.1 | 3 | J |
| 22 | 370 | 15.1 | 55 | J | 8.4 | -11 | 298 | 2.9 | -4.0 | -3.9 | 5 | J |
| 23 | 370 | 17.2 | 46 | J | 9.0 | 18 | 298 | 3.1 | -6.1 | -1.3 | 6 | J |
| 24 | 369 | 18.8 | 40 | J | 10.3 | 18 | 299 | 4.3 | -8.1 | -1.6 | 4 | J |

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112

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 358 | 18.9 | 59 | J | 9.8 | -27 | 316 | 5.8 | -2.9 | -6.3 | 4 | J |
| 3 | 357 | 19.0 | 58 | J | 10.3 | -32 | 318 | 6.1 | -2.7 | -7.0 | 3 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 344 | 41.4 | 15 | J | 8.5 | -20 | 293 | 3.0 | -6.1 | -4.5 | 2 | J |
| 8 | 349 | 35.1 | 17 | J | 9.3 | -29 | 292 | 3.0 | -6.3 | -5.9 | 2 | J |
| 9 | | | | | 8.8 | -44 | 310 | 3.8 | -3.4 | -6.4 | 3 | J |
| 10 | | | | | 10.2 | -56 | 328 | 4.8 | -1.6 | -8.8 | 1 | J |
| 11 | 348 | 21.1 | 64 | J | 9.8 | 21 | 121 | -4.6 | 7.0 | 4.5 | 3 | J |
| 12 | 388 | 12.9 | 122 | J | 6.8 | -8 | 122 | -3.1 | 5.1 | -0.1 | 3 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 5.3 | -49 | 127 | -2.1 | 4.3 | -2.2 | 1 | J |
| 3 | 382 | 18.5 | 36 | J | 7.0 | -31 | 100 | -1.0 | 6.8 | -0.6 | 1 | J |
| 4 | 377 | 17.7 | 35 | J | 5.8 | -27 | 130 | -3.3 | 4.6 | -0.8 | 1 | J |
| 5 | 376 | 18.0 | 46 | J | 5.2 | -3 | 146 | -3.0 | 2.0 | 0.5 | 4 | J |
| 6 | 378 | 18.7 | 54 | J | 5.4 | 7 | 217 | -4.0 | -3.0 | -0.3 | 2 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 379 | 28.3 | 23 | J | 6.4 | -11 | 77 | 1.1 | 5.1 | -0.1 | 4 | J |
| 10 | 375 | 35.5 | 19 | J | 5.3 | -10 | 81 | 0.8 | 5.1 | -0.1 | 1 | J |
| 11 | 375 | 29.4 | 21 | J | 5.9 | -32 | 75 | 1.3 | 5.1 | -2.3 | 1 | J |
| 12 | 365 | 25.6 | 34 | J | 6.6 | -19 | 121 | -2.8 | 4.9 | -1.2 | 3 | J |
| 13 | 351 | 28.4 | 30 | J | 6.9 | 0 | 131 | -4.3 | 4.8 | 0.8 | 2 | J |
| 14 | 353 | 29.6 | 32 | J | 7.2 | 8 | 128 | -4.1 | 5.0 | 1.9 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | 9.6 | 60 | 182 | -4.1 | -2.5 | 6.6 | 5 | J |
| 18 | 366 | 26.5 | 45 | J | 9.3 | 44 | 215 | -5.3 | -5.8 | 4.3 | 2 | J |
| 19 | 370 | 27.9 | 46 | J | 9.0 | 45 | 224 | -4.5 | -6.6 | 3.7 | 2 | J |
| 20 | 365 | 36.4 | 63 | J | 8.8 | 35 | 192 | -7.1 | -3.7 | 3.7 | 1 | J |
| 21 | 369 | 38.5 | 71 | J | 7.3 | 28 | 186 | -6.1 | -2.2 | 2.5 | 2 | J |
| 22 | 387 | 48.8 | 90 | J | 10.5 | -68 | 79 | 0.6 | 6.8 | -5.1 | 7 | J |
| 23 | 390 | 41.7 | 105 | J | 13.4 | -20 | 113 | -3.2 | 7.9 | 1.4 | 11 | J |
| 24 | 397 | 31.5 | 98 | J | 16.8 | 30 | 132 | -8.8 | 4.4 | 11.5 | 7 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 403 | 32.2 | 105 | J | 18.5 | -29 | 129 | -8.4 | 12.7 | -1.2 | 11 | J |
| 2 | 409 | 50.0 | 131 | J | 10.2 | -44 | 114 | -2.3 | 7.0 | -2.3 | 7 | J |
| 3 | 426 | 64.8 | 124 | J | 12.0 | 21 | 123 | -5.3 | 5.8 | 7.0 | 6 | J |
| 4 | 413 | 74.1 | 75 | J | 13.1 | 14 | 309 | 5.4 | -7.0 | -0.7 | 10 | J |
| 5 | | | | | | | | | | | | |
| 6 | 487 | 23.3 | 362 | J | 19.4 | 42 | 283 | 3.2 | -17.2 | 8.2 | 2 | J |
| 7 | 486 | 25.2 | 446 | J | 14.0 | 10 | 327 | 9.9 | -6.8 | 0.4 | 7 | J |
| 8 | 503 | 18.7 | 337 | J | 16.4 | 23 | 314 | 10.0 | -11.4 | 3.8 | 5 | J |
| 9 | 512 | 20.3 | 424 | J | 15.7 | 21 | 325 | 10.4 | -8.0 | 3.5 | 8 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 541 | 11.0 | 212 | J | 13.6 | -32 | 349 | 10.8 | -1.0 | -7.1 | 4 | J |
| 14 | 560 | 10.5 | 192 | J | 14.7 | -13 | 335 | 12.0 | -4.9 | -4.1 | 6 | J |
| 15 | | | | | 14.6 | -12 | 331 | 10.9 | -5.3 | -3.9 | 7 | J |
| 16 | 578 | 10.0 | 345 | J | 12.9 | -9 | 341 | 10.3 | -2.9 | -2.6 | 7 | J |
| 17 | 608 | 13.6 | 374 | J | 13.1 | 3 | 329 | 8.6 | -5.0 | -1.2 | 8 | J |
| 18 | 593 | 11.4 | 215 | J | 13.5 | -19 | 316 | 8.6 | -6.1 | -7.0 | 5 | J |
| 19 | 574 | 9.3 | 155 | J | 12.3 | 9 | 334 | 9.9 | -5.1 | -0.5 | 5 | J |
| 20 | 605 | 9.4 | 227 | J | 11.4 | 19 | 320 | 7.0 | -6.6 | 0.0 | 6 | J |
| 21 | 601 | 9.5 | 228 | J | 10.6 | -4 | 310 | 5.5 | -5.4 | -3.8 | 6 | J |
| 22 | | | | | 11.0 | 14 | 328 | 7.8 | -5.4 | -0.5 | 6 | J |
| 23 | | | | | 11.7 | -12 | 15 | 9.8 | 3.4 | -0.5 | 6 | J |
| 24 | 633 | 9.4 | 447 | J | 11.3 | 39 | 307 | 4.4 | -8.0 | 2.1 | 6 | J |

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OF POOR QUALITY

04/25/83 – 05/06/83

APR. 25, 1983 115

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 591 | 10.1 | 392 | J | 11.1 | 25 | 317 | 6.8 | -7.6 | 0.6 | 4 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | 6.6 | 6 | 23 | 5.0 | 2.0 | 0.9 | 4 | J |
| 10 | 591 | 6.0 | 246 | J | 6.8 | 6 | 9 | 6.2 | 0.9 | 0.8 | 3 | J |
| 11 | 582 | 5.6 | 192 | J | 6.3 | 17 | 355 | 5.4 | -0.7 | 1.6 | 3 | J |
| 12 | 598 | 5.5 | 191 | J | 7.8 | 19 | 303 | 3.8 | -6.1 | 1.6 | 3 | J |
| 13 | 577 | 6.1 | 274 | J | 5.7 | 4 | 25 | 3.7 | 1.7 | 0.5 | 4 | J |
| 14 | 589 | 6.5 | 219 | J | 6.2 | -13 | 12 | 3.9 | 1.0 | -0.8 | 5 | J |
| 15 | 616 | 5.7 | 155 | J | 6.8 | -3 | 287 | 1.8 | -5.5 | -1.6 | 3 | J |
| 16 | 596 | 6.3 | 203 | J | 6.5 | 2 | 287 | 1.7 | -5.3 | -1.3 | 3 | J |
| 17 | 576 | 7.2 | 212 | J | 7.1 | -25 | 318 | 3.4 | -2.2 | -3.0 | 5 | J |
| 18 | 582 | 6.1 | 263 | J | 7.4 | 7 | 283 | 1.3 | -5.6 | -1.5 | 4 | J |
| 19 | 627 | 5.7 | 200 | J | 8.0 | -11 | 295 | 2.9 | -5.1 | -3.9 | 4 | J |
| 20 | 589 | 5.9 | 107 | J | 8.3 | -20 | 332 | 5.2 | -1.5 | -3.2 | 5 | J |
| 21 | 560 | 6.0 | 67 | J | 8.8 | -20 | 342 | 6.5 | -0.6 | -3.2 | 5 | J |
| 22 | 561 | 6.8 | 91 | J | 8.8 | -27 | 354 | 7.1 | 1.2 | -3.5 | 4 | J |
| 23 | 567 | 7.9 | 123 | J | 8.3 | -14 | 343 | 6.9 | -0.9 | -2.6 | 4 | J |
| 24 | 559 | 7.8 | 109 | J | 8.8 | -27 | 349 | 6.6 | 0.6 | -3.6 | 5 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 557 | 7.9 | 115 | J | 8.1 | -7 | 349 | 7.0 | -0.8 | -1.4 | 4 | J |
| 2 | 547 | 6.7 | 122 | J | 8.3 | 9 | 347 | 7.0 | -2.0 | 0.3 | 4 | J |
| 3 | 552 | 8.1 | 159 | J | 8.5 | 10 | 334 | 5.5 | -2.9 | -0.2 | 6 | J |
| 4 | 559 | 8.0 | 184 | J | 7.0 | 6 | 338 | 4.4 | -1.8 | -0.2 | 5 | J |
| 5 | 575 | 8.8 | 204 | J | 7.5 | 33 | 357 | 3.4 | -0.9 | 2.0 | 6 | J |
| 6 | 554 | 8.5 | 200 | J | 7.7 | -22 | 316 | 4.7 | -3.6 | -3.8 | 3 | J |
| 7 | 572 | 8.2 | 138 | J | 7.8 | -5 | 285 | 1.9 | -6.8 | -2.3 | 3 | J |
| 8 | | | | | 6.2 | 18 | 15 | 4.0 | 0.8 | 1.5 | 4 | J |
| 9 | | | | | | | | | | | | |
| 10 | 588 | 7.8 | 206 | J | 6.4 | 20 | 294 | 2.1 | -4.9 | 1.2 | 3 | J |
| 11 | 596 | 8.3 | 203 | J | 6.4 | 23 | 284 | 1.1 | -4.8 | 1.4 | 4 | J |
| 12 | 576 | 8.4 | 177 | J | 6.8 | -2 | 2 | 3.8 | 0.1 | -0.1 | 6 | J |
| 13 | 572 | 7.8 | 127 | J | 6.5 | -34 | 357 | 4.4 | 0.2 | -3.0 | 4 | J |
| 14 | 580 | 7.5 | 151 | J | 6.3 | -36 | 336 | 4.1 | -1.2 | -3.6 | 3 | J |
| 15 | 590 | 7.4 | 182 | J | 5.9 | -35 | 328 | 3.3 | -1.4 | -3.1 | 3 | J |
| 16 | 585 | 7.3 | 155 | J | 6.6 | 6 | 302 | 2.9 | -4.6 | -0.7 | 3 | J |
| 17 | 551 | 6.6 | 75 | J | 6.6 | 30 | 327 | 4.1 | -3.4 | 1.8 | 3 | J |
| 18 | 579 | 7.2 | 92 | J | 6.4 | 40 | 349 | 3.7 | -1.8 | 2.6 | 4 | J |
| 19 | 575 | 6.7 | 141 | J | 6.4 | -27 | 10 | 3.9 | 1.5 | -1.6 | 4 | J |
| 20 | 563 | 7.0 | 135 | J | 6.1 | 11 | 358 | 4.3 | -0.5 | 0.7 | 4 | J |
| 21 | | | | | 6.7 | 61 | 259 | -0.6 | -5.2 | 3.3 | 2 | J |
| 22 | | | | | 6.4 | -45 | 36 | 3.1 | 3.9 | -2.2 | 3 | J |
| 23 | | | | | 6.4 | -36 | 7 | 3.9 | 1.9 | -2.2 | 4 | J |
| 24 | | | | | | | | | | | | |

APR. 27, 1983 117

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 502 | 3.4 | 49 | J | 4.6 | 10 | 309 | 2.6 | -3.3 | 0.3 | 2 | J |
| 12 | | | | | | | | | | | | |
| 13 | 485 | 3.5 | 91 | J | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 484 | 5.1 | 65 | J | | | | | | | | |
| 20 | 462 | 5.4 | 56 | J | | | | | | | | |
| 21 | 461 | 5.6 | 52 | J | | | | | | | | |
| 22 | 451 | 5.4 | 65 | J | | | | | | | | |
| 23 | 445 | 5.7 | 72 | J | | | | | | | | |
| 24 | 449 | 5.7 | 69 | J | | | | | | | | |

APR. 28, 1983 118

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 448 | 5.9 | 75 | J | | | | | | | | |
| 2 | 455 | 6.1 | 74 | J | | | | | | | | |
| 3 | 463 | 6.9 | 59 | J | | | | | | | | |
| 4 | 435 | 6.7 | 108 | J | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 434 | 7.0 | 87 | J | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 416 | 8.7 | 47 | J | | | | | | | | |
| 15 | 415 | 9.2 | 46 | J | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 421 | 10.2 | 58 | J | | | | | | | | |
| 19 | 419 | 10.2 | 66 | J | | | | | | | | |
| 20 | 416 | 10.9 | 74 | J | | | | | | | | |
| 21 | 426 | 11.5 | 66 | J | | | | | | | | |
| 22 | 397 | 12.2 | 83 | J | | | | | | | | |
| 23 | 421 | 10.4 | 42 | J | | | | | | | | |
| 24 | 391 | 10.0 | 55 | J | | | | | | | | |

APR. 29, 1983 119

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 11.2 | 31 | J | | | | | | | | |
| 2 | 373 | 11.9 | 20 | J | | | | | | | | |
| 3 | 391 | 11.5 | 58 | J | | | | | | | | |
| 4 | 416 | 10.5 | 33 | J | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 4, 1983 124

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | 11.0 | -33 | 119 | -4.4 | 8.9 | -4.3 | 2 | J |
| 16 | 569 | 9.6 | 208 | J | 10.0 | 2 | 122 | -2.9 | 4.4 | 1.3 | 8 | J |
| 17 | 534 | 11.3 | 197 | J | 9.7 | 13 | 160 | -7.3 | 2.0 | 2.5 | 5 | J |
| 18 | | | | | 10.2 | 6 | 155 | -7.8 | 3.1 | 2.1 | 5 | J |
| 19 | 522 | 8.7 | 86 | J | 10.8 | -2 | 155 | -9.0 | 4.0 | 1.3 | 4 | J |
| 20 | 523 | 8.1 | 101 | J | 11.2 | -6 | 138 | -7.3 | 6.4 | 1.9 | 5 | J |
| 21 | 519 | 9.1 | 124 | J | 10.9 | -22 | 160 | -8.7 | 4.6 | -1.8 | 4 | J |
| 22 | 534 | 8.7 | 140 | J | 10.0 | 9 | 153 | -6.1 | 2.2 | 2.4 | 7 | J |
| 23 | 515 | 8.1 | 77 | J | 10.1 | -4 | 163 | -8.9 | 2.7 | 0.8 | 4 | J |
| 24 | 534 | 7.7 | 157 | J | 9.7 | 18 | 148 | -7.3 | 2.6 | 4.6 | 3 | J |

MAY 5, 1983 125

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 530 | 6.4 | 82 | J | 9.4 | -6 | 160 | -7.2 | 2.7 | 0.5 | 5 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 605 | 3.9 | 141 | J | 10.0 | -25 | 97 | -1.0 | 8.9 | -0.7 | 4 | J |
| 5 | 583 | 3.9 | 137 | J | 9.3 | -2 | 116 | -3.7 | 7.3 | 2.0 | 4 | J |
| 6 | 578 | 5.0 | 255 | L | 8.9 | 0 | 119 | -3.9 | 6.8 | 1.7 | 4 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 575 | 4.1 | 90 | J | 8.7 | 4 | 123 | -4.3 | 6.5 | 1.4 | 3 | J |
| 10 | 592 | 4.4 | 119 | J | 8.6 | 11 | 118 | -3.7 | 6.7 | 2.2 | 3 | J |
| 11 | 621 | 4.5 | 91 | J | 8.1 | -25 | 127 | -2.8 | 3.9 | -1.8 | 6 | J |
| 12 | 563 | 4.9 | 182 | L | 8.0 | -2 | 131 | -4.3 | 5.0 | 0.2 | 4 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 568 | 4.4 | 93 | J | 7.3 | -12 | 142 | -5.0 | 4.1 | -0.4 | 3 | J |
| 17 | 587 | 5.2 | 185 | J | 7.7 | -30 | 140 | -4.4 | 4.5 | -2.1 | 4 | J |
| 18 | 585 | 5.1 | 175 | J | 8.0 | 35 | 161 | -5.1 | 0.4 | 4.2 | 4 | J |
| 19 | 604 | 4.7 | 186 | J | 8.1 | 32 | 127 | -3.2 | 2.6 | 4.7 | 5 | J |
| 20 | 633 | 4.5 | 182 | J | 8.0 | -47 | 110 | -1.6 | 6.0 | -2.6 | 4 | J |
| 21 | 620 | 5.0 | 198 | J | 8.5 | -38 | 123 | -3.2 | 6.4 | -1.8 | 4 | J |
| 22 | 612 | 5.4 | 253 | J | 8.4 | 18 | 114 | -2.8 | 4.4 | 4.9 | 4 | J |
| 23 | 612 | 4.9 | 196 | J | 7.7 | 16 | 126 | -3.8 | 3.7 | 4.2 | 4 | J |
| 24 | 583 | 4.7 | 144 | J | 7.7 | 20 | 140 | -5.2 | 2.7 | 4.2 | 2 | J |

MAY 6, 1983 126

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 574 | 4.2 | 91 | J | 5.9 | -11 | 199 | -5.2 | -1.5 | -1.4 | 2 | J |
| 8 | 568 | 4.7 | 110 | J | 5.9 | 5 | 197 | -5.2 | -1.7 | 0.2 | 2 | J |
| 9 | 573 | 3.8 | 99 | J | 5.5 | -12 | 148 | -4.1 | 2.6 | -0.7 | 2 | J |
| 10 | 576 | 4.0 | 92 | J | 6.0 | 7 | 145 | -4.3 | 2.9 | 0.9 | 3 | J |
| 11 | 581 | 4.6 | 131 | J | 6.4 | 6 | 147 | -4.2 | 2.7 | 0.8 | 4 | J |
| 12 | 597 | 5.0 | 145 | J | 7.3 | 32 | 123 | -2.7 | 3.8 | 3.4 | 4 | J |
| 13 | 604 | 4.8 | 138 | J | 6.2 | 13 | 92 | -0.2 | 5.6 | 1.9 | 2 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 584 | 4.4 | 111 | J | 5.3 | 6 | 125 | -2.1 | 2.6 | 1.5 | 4 | J |
| 20 | 574 | 4.7 | 113 | J | 5.5 | -7 | 142 | -2.3 | 1.8 | 0.5 | 5 | J |
| 21 | | | | | 5.3 | 1 | 152 | -4.7 | 2.2 | 1.2 | 1 | J |
| 22 | 577 | 5.3 | 127 | J | 5.2 | -24 | 101 | -0.8 | 4.4 | 0.3 | 2 | J |
| 23 | 579 | 5.2 | 141 | J | 5.8 | -36 | 114 | -1.0 | 2.8 | -0.5 | 5 | J |
| 24 | 560 | 5.0 | 126 | J | 6.0 | 9 | 117 | -2.4 | 3.7 | 2.9 | 3 | J |

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MAY 7, 1983 127

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 538 | 4.8 | 123 | J | 6.2 | 7 | 155 | -5.5 | 1.9 | 1.8 | 1 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 533 | 4.5 | 158 | J | 6.4 | 24 | 166 | -5.6 | 1.0 | 2.7 | 1 | J |
| 9 | 538 | 4.9 | 151 | J | 6.5 | 6 | 147 | -5.0 | 3.2 | 1.0 | 2 | J |
| 10 | 548 | 5.1 | 142 | J | 6.3 | 5 | 138 | -4.3 | 3.8 | 0.9 | 2 | J |
| 11 | 556 | 4.9 | 134 | J | 6.0 | 2 | 152 | -4.2 | 2.2 | 0.3 | 3 | J |
| 12 | 553 | 4.9 | 162 | J | 6.0 | -12 | 154 | -4.5 | 2.3 | -0.9 | 3 | J |
| 13 | 540 | 4.6 | 153 | J | 6.2 | 31 | 156 | -4.2 | 1.6 | 2.9 | 3 | J |
| 14 | 564 | 4.7 | 113 | J | 6.7 | 38 | 112 | -1.8 | 3.9 | 4.2 | 3 | J |
| 15 | 541 | 4.8 | 175 | J | 5.9 | 15 | 133 | -3.3 | 3.3 | 1.9 | 3 | J |
| 16 | 545 | 4.5 | 136 | J | 5.9 | 30 | 169 | -3.6 | 0.2 | 2.2 | 4 | J |
| 17 | 544 | 4.4 | 138 | J | 5.7 | -2 | 128 | -3.0 | 3.8 | 0.9 | 3 | J |
| 18 | 545 | 4.3 | 138 | J | 5.5 | -17 | 143 | -3.2 | 2.7 | -0.4 | 3 | J |
| 19 | 541 | 4.0 | 111 | J | 5.1 | -7 | 121 | -2.1 | 3.4 | 0.9 | 3 | J |
| 20 | 539 | 4.0 | 110 | J | 5.1 | -21 | 130 | -2.6 | 3.4 | -0.1 | 3 | J |
| 21 | 513 | 3.9 | 77 | J | 5.2 | 17 | 155 | -3.7 | 1.0 | 1.9 | 3 | J |
| 22 | 545 | 4.0 | 107 | J | 5.3 | 22 | 110 | -1.4 | 2.5 | 3.2 | 3 | J |
| 23 | 517 | 3.4 | 66 | J | 5.1 | 33 | 178 | -3.7 | -1.0 | 2.2 | 3 | J |
| 24 | 532 | 3.1 | 87 | J | 5.3 | -56 | 138 | -1.5 | 2.6 | -2.0 | 4 | J |

MAY 8, 1983 128

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 533 | 2.8 | 82 | J | 5.3 | -82 | 59 | 0.4 | 2.9 | -4.3 | 1 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | 5.0 | -13 | 128 | -3.0 | 4.0 | -0.2 | 1 | J |
| 7 | | | | | 5.5 | 14 | 196 | -4.6 | -1.5 | 0.9 | 2 | J |
| 8 | | | | | 5.1 | 21 | 177 | -4.6 | -0.0 | 1.8 | 1 | J |
| 9 | 475 | 4.1 | 105 | J | 5.4 | 35 | 137 | -3.2 | 2.6 | 3.3 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 6.3 | 43 | 142 | -3.3 | 2.3 | 4.1 | 3 | J |
| 13 | | | | | 6.4 | 1 | 150 | -5.2 | 3.0 | 0.4 | 2 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 6.0 | -36 | 148 | -3.7 | 2.9 | -2.6 | 3 | J |
| 17 | 439 | 4.4 | 111 | J | 6.7 | 9 | 130 | -4.1 | 4.4 | 2.3 | 2 | J |
| 18 | 464 | 2.6 | 39 | J | 8.2 | -39 | 154 | -5.3 | 4.0 | -3.7 | 3 | J |
| 19 | | | | | 8.9 | -41 | 154 | -5.8 | 4.8 | -4.1 | 2 | J |
| 20 | | | | | 8.6 | 25 | 128 | -4.7 | 4.0 | 5.8 | 1 | J |
| 21 | | | | | 7.9 | -16 | 135 | -4.8 | 5.2 | 0.4 | 4 | J |
| 22 | | | | | 7.6 | -25 | 120 | -2.6 | 5.2 | -0.0 | 5 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 9, 1983 129

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | 6.7 | -44 | 182 | -3.6 | 1.2 | -3.3 | 5 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | 6.7 | 3 | 124 | -3.2 | 4.7 | 1.0 | 4 | J |
| 9 | 490 | 4.2 | 151 | J | 6.1 | 48 | 178 | -2.9 | -0.2 | 3.3 | 4 | J |
| 10 | 478 | 3.9 | 113 | J | 6.5 | 60 | 59 | 1.3 | 1.8 | 4.6 | 4 | J |
| 11 | 505 | 4.1 | 108 | J | 6.8 | 50 | 61 | 2.0 | 3.2 | 5.1 | 3 | J |
| 12 | | | | | 7.3 | 40 | 160 | -4.2 | 1.2 | 3.8 | 5 | J |
| 13 | 434 | 3.1 | 78 | J | 8.0 | 35 | 190 | -6.3 | -1.5 | 4.4 | 2 | J |
| 14 | | | | | 7.3 | 50 | 163 | -4.5 | 0.7 | 5.7 | 1 | J |
| 15 | 481 | 3.1 | 136 | J | 6.5 | 64 | 205 | -1.9 | -1.6 | 4.1 | 4 | J |
| 16 | 472 | 4.0 | 85 | J | 6.4 | 4 | 105 | -1.5 | 5.6 | 1.6 | 2 | J |
| 17 | 494 | 4.2 | 119 | J | | | | | | | | |
| 18 | | | | | 6.1 | -9 | 135 | -3.4 | 3.5 | 0.4 | 4 | J |
| 19 | 474 | 3.7 | 140 | J | 6.2 | 7 | 123 | -2.6 | 3.5 | 2.0 | 4 | J |
| 20 | 496 | 3.8 | 126 | J | 6.4 | 36 | 174 | -2.8 | -0.6 | 2.0 | 6 | J |
| 21 | 464 | 4.0 | 132 | J | 6.0 | 7 | 138 | -3.8 | 2.8 | 2.1 | 3 | J |
| 22 | 447 | 4.4 | 117 | J | 5.7 | 22 | 182 | -4.6 | -1.0 | 1.6 | 3 | J |
| 23 | 463 | 3.6 | 117 | J | 6.3 | 12 | 150 | -4.7 | 1.8 | 2.3 | 3 | J |
| 24 | 467 | 2.2 | 79 | J | 6.9 | 17 | 175 | -6.1 | -0.4 | 1.9 | 3 | J |

MAY 10, 1983 130

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 459 | 2.7 | 70 | J | 7.4 | 9 | 182 | -7.1 | -0.7 | 0.9 | 2 | J |
| 2 | 475 | 2.5 | 76 | J | 8.0 | 5 | 146 | -5.5 | 3.2 | 2.1 | 4 | J |
| 3 | 503 | 2.6 | 103 | J | 8.1 | -6 | 115 | -3.3 | 6.9 | 1.9 | 2 | J |
| 4 | 499 | 2.3 | 206 | J | 8.0 | 0 | 89 | 0.1 | 7.2 | 2.5 | 2 | J |
| 5 | | | | | 7.7 | 10 | 102 | -1.5 | 6.5 | 3.2 | 2 | J |
| 6 | 490 | 2.0 | 72 | J | 7.5 | 4 | 110 | -2.5 | 6.6 | 2.0 | 2 | J |
| 7 | 490 | 2.1 | 72 | J | 7.7 | 15 | 116 | -3.2 | 6.1 | 3.1 | 1 | J |
| 8 | 455 | 2.0 | 59 | J | 7.4 | -2 | 147 | -6.1 | 4.0 | 0.3 | 2 | J |
| 9 | 449 | 2.4 | 62 | J | 7.0 | 0 | 186 | -6.3 | -0.7 | -0.1 | 3 | J |
| 10 | 445 | 2.0 | 50 | J | 7.2 | -4 | 168 | -6.7 | 1.5 | -0.4 | 2 | J |
| 11 | 437 | 2.1 | 58 | J | 7.8 | -2 | 158 | -7.0 | 2.9 | -0.1 | 2 | J |
| 12 | 431 | 2.0 | 39 | J | 8.0 | -11 | 171 | -7.6 | 1.3 | -1.4 | 2 | J |
| 13 | | | | | 7.9 | -21 | 169 | -7.1 | 1.6 | -2.6 | 2 | J |
| 14 | | | | | 7.9 | -8 | 117 | -3.4 | 6.8 | -0.3 | 2 | J |
| 15 | | | | | 7.9 | -11 | 107 | -2.2 | 7.5 | -0.3 | 1 | J |
| 16 | | | | | 7.9 | -12 | 135 | -5.5 | 5.7 | -0.5 | 1 | J |
| 17 | 435 | 3.0 | 66 | J | 8.0 | -13 | 130 | -4.9 | 6.2 | -0.2 | 2 | J |
| 18 | 442 | 5.6 | 33 | J | 7.6 | 28 | 124 | -2.1 | 2.3 | 2.9 | 6 | J |
| 19 | 435 | 8.9 | 30 | J | 7.9 | 70 | 353 | 2.6 | 2.9 | 6.5 | 3 | J |
| 20 | 493 | 21.9 | 52 | J | 15.8 | 62 | 346 | 6.5 | -6.7 | 10.8 | 7 | J |
| 21 | 487 | 25.3 | 58 | J | 14.8 | 62 | 334 | 5.6 | -7.6 | 9.3 | 7 | J |
| 22 | 466 | 24.0 | 44 | J | 16.2 | 65 | 339 | 6.4 | -8.9 | 11.9 | 2 | J |
| 23 | 469 | 20.7 | 51 | J | 17.9 | 79 | 35 | 2.8 | -6.3 | 16.4 | 2 | J |
| 24 | 467 | 23.4 | 46 | J | 18.2 | 44 | 98 | -1.6 | 5.1 | 15.1 | 9 | J |

MAY 11, 1983 131

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 462 | 18.7 | 65 | J | 18.0 | 4 | 110 | -5.2 | 12.4 | 7.1 | 10 | J |
| 2 | 468 | 15.9 | 119 | J | 17.2 | 27 | 106 | -4.1 | 10.0 | 12.6 | 4 | J |
| 3 | 451 | 15.1 | 146 | J | 15.4 | 2 | 116 | -6.5 | 12.3 | 5.4 | 4 | J |
| 4 | 454 | 16.7 | 122 | J | 15.6 | -14 | 120 | -7.5 | 13.5 | 0.6 | 2 | J |
| 5 | 444 | 18.9 | 151 | J | 14.6 | 45 | 160 | -8.8 | 0.6 | 9.9 | 6 | J |
| 6 | 425 | 18.3 | 103 | J | 15.0 | 19 | 161 | -12.3 | 3.2 | 5.3 | 6 | J |
| 7 | 419 | 16.1 | 80 | J | 15.8 | -4 | 148 | -13.0 | 8.2 | 0.3 | 3 | J |
| 8 | 438 | 19.0 | 120 | J | 17.7 | -34 | 161 | -11.8 | 5.1 | -7.8 | 9 | J |
| 9 | 470 | 24.5 | 225 | J | 16.9 | -48 | 122 | -5.6 | 10.1 | -10.9 | 5 | J |
| 10 | 502 | 28.5 | 157 | J | 17.5 | 9 | 296 | 7.0 | -14.4 | 1.5 | 6 | J |
| 11 | 508 | 26.3 | 171 | J | 18.5 | 14 | 294 | 7.2 | -16.4 | 3.4 | 3 | J |
| 12 | 496 | 32.1 | 157 | J | 13.6 | 9 | 110 | -1.3 | 3.5 | 0.8 | 14 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 497 | 11.1 | 128 | J | 21.6 | -13 | 313 | 14.0 | -13.8 | -7.7 | 5 | J |
| 17 | 517 | 10.0 | 146 | J | 22.8 | -11 | 311 | 14.4 | -14.9 | -8.4 | 4 | J |
| 18 | 531 | 12.2 | 443 | J | 20.7 | 6 | 309 | 7.9 | -9.7 | -1.8 | 17 | J |
| 19 | 536 | 13.9 | 441 | J | 19.1 | 13 | 296 | 6.3 | -13.3 | -1.6 | 12 | J |
| 20 | 607 | 13.7 | 328 | J | 13.6 | -14 | 18 | 1.8 | 0.7 | -0.2 | 14 | J |
| 21 | 646 | 10.0 | 330 | J | 11.0 | 42 | 79 | 1.3 | 3.4 | 8.6 | 6 | J |
| 22 | 651 | 7.3 | 283 | J | 8.6 | 3 | 358 | 6.8 | -0.4 | 0.2 | 5 | J |
| 23 | 651 | 6.9 | 213 | J | 9.4 | 0 | 336 | 7.7 | -3.0 | -1.6 | 4 | J |
| 24 | 710 | 6.5 | 321 | J | 9.1 | -17 | 323 | 5.1 | -2.6 | -3.5 | 6 | J |

MAY 12, 1983 132

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 731 | 5.9 | 291 | J | 8.8 | -3 | 308 | 4.0 | -4.5 | -2.5 | 6 | J |
| 2 | 710 | 5.8 | 213 | J | 8.4 | -2 | 318 | 5.0 | -4.0 | -2.0 | 5 | J |
| 3 | 691 | 5.9 | 147 | J | 8.1 | -15 | 345 | 6.1 | -0.9 | -2.2 | 5 | J |
| 4 | 683 | 5.9 | 143 | J | 7.5 | -16 | 329 | 2.2 | -1.0 | -1.1 | 5 | J |
| 5 | 705 | 5.8 | 180 | J | 8.6 | 17 | 316 | 4.5 | -4.7 | 0.7 | 5 | J |
| 6 | 685 | 5.4 | 131 | J | 8.8 | -18 | 332 | 6.3 | -2.8 | -3.0 | 4 | J |
| 7 | | | | | | | | | | | | |
| 8 | 685 | 6.6 | 146 | J | 6.9 | -20 | 356 | 5.4 | -0.1 | -2.0 | 4 | J |
| 9 | 683 | 6.2 | 161 | J | 6.8 | 18 | 1 | 5.6 | -0.1 | 1.8 | 3 | J |
| 10 | 684 | 6.3 | 201 | J | 6.2 | 17 | 350 | 4.5 | -0.9 | 1.3 | 4 | J |
| 11 | 668 | 6.1 | 164 | J | 6.6 | -14 | 360 | 5.7 | 0.1 | -1.4 | 3 | J |
| 12 | 660 | 6.2 | 206 | J | 6.6 | 3 | 346 | 5.7 | -1.4 | 0.2 | 3 | J |
| 13 | 640 | 6.5 | 240 | J | 6.9 | -4 | 340 | 6.2 | -2.2 | -0.6 | 2 | J |
| 14 | 654 | 6.6 | 217 | J | 7.1 | 10 | 310 | 4.1 | -4.9 | 0.6 | 3 | J |
| 15 | 642 | 6.7 | 162 | J | 7.2 | 2 | 9 | 6.0 | 0.9 | 0.3 | 3 | J |
| 16 | 650 | 6.3 | 157 | J | 7.4 | -17 | 310 | 4.3 | -4.6 | -3.0 | 2 | J |
| 17 | 631 | 6.1 | 108 | J | 7.6 | -22 | 326 | 5.5 | -2.9 | -3.5 | 3 | J |
| 18 | 607 | 7.3 | 126 | J | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 17, 1983 137

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 555 | 24.6 | 182 | J | | | | | | | | |
| 2 | 539 | 22.4 | 218 | J | | | | | | | | |
| 3 | 551 | 23.3 | 219 | J | | | | | | | | |
| 4 | 530 | 20.7 | 132 | J | | | | | | | | |
| 5 | 522 | 21.6 | 98 | J | | | | | | | | |
| 6 | 499 | 18.0 | 246 | J | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 476 | 18.5 | 100 | J | | | | | | | | |
| 9 | 515 | 15.5 | 52 | J | | | | | | | | |
| 10 | 523 | 12.3 | 42 | J | | | | | | | | |
| 11 | 511 | 12.7 | 42 | J | | | | | | | | |
| 12 | 502 | 13.2 | 38 | J | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 478 | 9.9 | 252 | J | | | | | | | | |
| 16 | 481 | 8.8 | 175 | J | | | | | | | | |
| 17 | 454 | 10.1 | 157 | J | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 441 | 11.6 | 81 | J | | | | | | | | |
| 20 | 458 | 22.7 | 54 | J | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 460 | 19.0 | 50 | J | | | | | | | | |
| 23 | 457 | 20.0 | 109 | J | | | | | | | | |
| 24 | 465 | 22.0 | 107 | J | | | | | | | | |

MAY 18, 1983 138

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 487 | 9.5 | 108 | J | 12.8 | 36 | 251 | -1.5 | -4.6 | 2.9 | 12 | J |
| 9 | 482 | 15.9 | 124 | J | 10.3 | 68 | 273 | 0.1 | -3.1 | 6.7 | 7 | J |
| 10 | 490 | 17.5 | 137 | J | 10.5 | 31 | 40 | 6.5 | 5.3 | 5.3 | 3 | J |
| 11 | 489 | 8.1 | 54 | J | 11.6 | 16 | 44 | 7.9 | 7.6 | 3.3 | 2 | J |
| 12 | 450 | 3.1 | 45 | J | | | | | | | | |
| 13 | 509 | 4.0 | 61 | J | 11.2 | -3 | 51 | 7.0 | 8.6 | -0.3 | 2 | J |
| 14 | 502 | 9.9 | 70 | J | 9.4 | -3 | 47 | 6.3 | 6.8 | -0.0 | 1 | J |
| 15 | 470 | 10.6 | 77 | J | 8.4 | 18 | 27 | 2.9 | 1.3 | 1.2 | 8 | J |
| 16 | 426 | 7.9 | 72 | J | 6.6 | 26 | 208 | -4.8 | -2.9 | 2.2 | 3 | J |
| 17 | 414 | 8.8 | 30 | J | 6.2 | 15 | 214 | -4.9 | -3.6 | 0.8 | 2 | J |
| 18 | 413 | 9.5 | 32 | J | 6.0 | 23 | 216 | -4.0 | -3.4 | 1.2 | 3 | J |
| 19 | 410 | 9.3 | 48 | J | 5.6 | 3 | 185 | -5.5 | -0.5 | 0.1 | 1 | J |
| 20 | 426 | 8.4 | 48 | J | 4.8 | 85 | 129 | -0.2 | -1.1 | 3.2 | 4 | J |
| 21 | 420 | 8.2 | 48 | J | 4.9 | 59 | 126 | -1.3 | 0.2 | 4.1 | 2 | J |
| 22 | 425 | 6.9 | 35 | J | 5.3 | 73 | 99 | -0.2 | -0.5 | 3.6 | 4 | J |
| 23 | 428 | 6.6 | 38 | J | 5.7 | 78 | 308 | 0.7 | -3.2 | 4.6 | 1 | J |
| 24 | 422 | 7.8 | 43 | J | 5.4 | 85 | 223 | -0.3 | -2.2 | 4.1 | 3 | J |

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05/19/83 – 05/30/83

MAY 19, 1983 139

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 424 | 8.7 | 54 | J | 4.9 | 23 | 123 | -1.5 | 1.6 | 1.9 | 4 | J |
| 2 | 420 | 8.5 | 37 | J | 4.9 | -10 | 124 | -2.2 | 3.3 | 0.5 | 3 | J |
| 3 | 421 | 8.5 | 44 | J | 4.1 | -51 | 145 | -1.9 | 2.2 | -2.3 | 2 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 407 | 9.0 | 40 | J | 5.6 | 25 | 128 | -2.6 | 3.3 | 2.0 | 3 | J |
| 13 | 418 | 8.7 | 34 | J | 5.6 | 10 | 106 | -1.3 | 4.6 | 1.0 | 3 | J |
| 14 | 413 | 8.8 | 30 | J | 5.8 | 39 | 113 | -1.6 | 3.6 | 3.6 | 2 | J |
| 15 | 412 | 9.2 | 29 | J | 6.3 | 66 | 114 | -1.0 | 1.6 | 5.6 | 2 | J |
| 16 | 402 | 9.3 | 42 | J | 6.4 | 10 | 128 | -3.5 | 4.3 | 1.7 | 3 | J |
| 17 | 401 | 9.9 | 43 | J | 6.4 | 31 | 126 | -3.0 | 3.4 | 3.9 | 2 | J |
| 18 | 404 | 9.7 | 36 | J | 6.4 | 44 | 114 | -1.7 | 2.6 | 5.0 | 2 | J |
| 19 | 392 | 10.3 | 58 | J | 6.2 | 28 | 130 | -3.1 | 2.6 | 3.6 | 3 | J |
| 20 | | | | | 6.5 | 5 | 134 | -3.7 | 3.4 | 1.8 | 4 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 21, 1983 141

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 13.0 | 39 | 64 | 4.2 | 5.0 | 10.5 | 4 | J |
| 2 | 463 | 19.3 | 61 | J | 16.8 | 38 | 5 | 13.1 | -2.6 | 10.0 | 2 | J |
| 3 | 462 | 17.2 | 39 | J | 17.2 | 39 | 13 | 12.7 | -0.5 | 11.0 | 3 | J |
| 4 | 497 | 23.2 | 29 | J | 17.0 | 32 | 6 | 14.1 | -0.9 | 8.9 | 3 | J |
| 5 | 492 | 21.4 | 28 | J | 17.2 | 23 | 354 | 15.7 | -3.1 | 6.2 | 2 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | 18.2 | 8 | 332 | 15.7 | -8.5 | 1.9 | 3 | J |
| 9 | | | | | 19.3 | 3 | 327 | 15.7 | -10.2 | 0.6 | 5 | J |
| 10 | | | | | 18.4 | -3 | 353 | 18.2 | -2.2 | -1.0 | 2 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | 19.6 | 3 | 346 | 11.1 | -2.8 | 0.5 | 16 | J |
| 15 | 716 | 13.6 | 729 | J | 17.2 | 3 | 285 | 3.7 | -13.9 | -0.5 | 9 | J |
| 16 | 660 | 13.7 | 473 | J | 17.4 | 30 | 310 | 8.8 | -11.5 | 6.3 | 7 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 17.8 | 58 | 24 | 8.6 | -1.8 | 15.5 | 1 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 612 | 18.0 | 125 | L | | | | | | | | |

MAY 23, 1983 143

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 593 | 8.3 | 198 | J | | | | | | | | |
| 2 | 549 | 6.8 | 177 | J | 8.5 | -32 | 321 | 5.0 | -2.4 | -5.2 | 4 | J |
| 3 | 566 | 7.2 | 194 | J | 8.3 | -32 | 324 | 5.0 | -2.3 | -4.8 | 4 | J |
| 4 | 563 | 7.6 | 187 | J | 8.5 | -26 | 8 | 5.7 | 1.5 | -2.5 | 5 | J |
| 5 | 587 | 7.0 | 213 | J | 7.6 | -13 | 36 | 3.4 | 2.6 | -0.2 | 6 | J |
| 6 | 583 | 6.9 | 212 | J | 9.0 | -2 | 311 | 4.9 | -5.6 | -1.1 | 5 | J |
| 7 | 582 | 6.4 | 162 | J | 8.7 | -33 | 314 | 4.4 | -4.1 | -4.5 | 4 | J |
| 8 | 586 | 5.7 | 114 | J | 7.6 | -25 | 331 | 4.8 | -2.5 | -2.7 | 4 | J |
| 9 | 582 | 5.1 | 87 | J | 7.2 | -3 | 349 | 5.9 | -1.1 | -0.3 | 4 | J |
| 10 | | | | | 6.6 | -12 | 302 | 1.6 | -2.6 | -0.6 | 6 | J |
| 11 | | | | | 6.3 | 31 | 344 | 3.8 | -1.1 | 2.4 | 4 | J |
| 12 | 593 | 5.2 | 136 | J | 5.7 | 22 | 339 | 3.7 | -1.4 | 1.6 | 4 | J |
| 13 | 596 | 5.8 | 202 | J | 6.3 | -8 | 23 | 5.7 | 2.4 | -0.9 | 1 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | 6.9 | -25 | 295 | 2.5 | -4.7 | -3.7 | 2 | J |
| 18 | 594 | 5.0 | 131 | J | 6.9 | -41 | 303 | 2.2 | -2.4 | -4.2 | 4 | J |
| 19 | 601 | 5.2 | 116 | J | 7.3 | -51 | 277 | 0.5 | -2.1 | -5.5 | 4 | J |
| 20 | 626 | 4.8 | 94 | J | 7.5 | -15 | 263 | -0.8 | -5.5 | -3.9 | 3 | J |
| 21 | | | | | 7.0 | -19 | 288 | 1.8 | -4.5 | -4.0 | 3 | J |
| 22 | | | | | 6.3 | 6 | 280 | 1.0 | -5.6 | -1.7 | 2 | J |
| 23 | 580 | 4.8 | 124 | J | 5.8 | 3 | 328 | 2.6 | -1.6 | -0.5 | 5 | J |
| 24 | 582 | 4.8 | 128 | J | 6.0 | -18 | 296 | 1.8 | -2.9 | -2.7 | 4 | J |

MAY 25, 1983 145

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 715 | 8.8 | 188 | J | 11.4 | 22 | 178 | -9.5 | -1.1 | 3.7 | 5 | J |
| 2 | 701 | 18.1 | 109 | J | 8.8 | 34 | 190 | -5.2 | -2.1 | 3.1 | 6 | J |
| 3 | 661 | 28.2 | 66 | J | 9.9 | 69 | 188 | -2.5 | -2.3 | 6.2 | 7 | J |
| 4 | 671 | 17.9 | 67 | J | 11.0 | 84 | 93 | -0.1 | -1.5 | 10.8 | 2 | J |
| 5 | 602 | 5.4 | 269 | J | | | | | | | | |
| 6 | 535 | 1.3 | 582 | L | | | | | | | | |
| 7 | 545 | 1.9 | 587 | L | | | | | | | | |
| 8 | 552 | 0.8 | 653 | L | | | | | | | | |
| 9 | 574 | 0.7 | 548 | L | | | | | | | | |
| 10 | 629 | 0.5 | 231 | L | | | | | | | | |
| 11 | 628 | 0.5 | 170 | L | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 712 | 0.3 | 165 | L | | | | | | | | |
| 17 | 719 | 0.3 | 130 | L | | | | | | | | |
| 18 | 724 | 0.4 | 111 | L | | | | | | | | |
| 19 | 752 | 0.3 | 149 | L | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 20, 1983 140

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 36[illegible] | 8.3 | 45 | J | 8.6 | 48 | 181 | -3.3 | -0.3 | 3.7 | 6 | J |
| 9 | 379 | 8.6 | 30 | J | 9.2 | 47 | 91 | -0.1 | 5.7 | 6.6 | 3 | J |
| 10 | | | | | 9.9 | 52 | 147 | -4.5 | 2.8 | 7.0 | 5 | J |
| 11 | 382 | 10.9 | 29 | J | 10.3 | 42 | 110 | -2.5 | 6.8 | 6.6 | 3 | J |
| 12 | | | | | 11.4 | 33 | 122 | -4.3 | 6.9 | 5.3 | 6 | J |
| 13 | 365 | 11.6 | 46 | J | 11.4 | 9 | 132 | -7.3 | 8.0 | 1.9 | 3 | J |
| 14 | 369 | 12.0 | 45 | J | 11.3 | 20 | 129 | -6.7 | 8.0 | 4.3 | 1 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 11.5 | 31 | 112 | -3.7 | 8.1 | 7.2 | 1 | J |
| 17 | | | | | 11.1 | 26 | 111 | -3.5 | 8.0 | 6.6 | 2 | J |
| 18 | 376 | 15.9 | 20 | J | 12.7 | 33 | 125 | -5.7 | 6.1 | 8.4 | 5 | J |
| 19 | 377 | 15.9 | 62 | J | 12.0 | 12 | 136 | -8.1 | 6.6 | 4.8 | 4 | J |
| 20 | | | | | 6.7 | 23 | 148 | -2.2 | 0.9 | 1.5 | 6 | J |
| 21 | | | | | 13.8 | -19 | 322 | 9.8 | -5.4 | -7.0 | 4 | J |
| 22 | | | | | 13.4 | -7 | 330 | 11.3 | -5.3 | -4.2 | 2 | J |
| 23 | 432 | 21.1 | 76 | J | 15.2 | 7 | 336 | 13.6 | -6.3 | -0.8 | 2 | J |
| 24 | 462 | 24.7 | 76 | J | 14.3 | 34 | 41 | 5.2 | 2.2 | 6.1 | 12 | J |

MAY 22, 1983 142

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 612 | 14.2 | 144 | J | 15.9 | 39 | 59 | 6.2 | 5.9 | 13.0 | 3 | J |
| 2 | 595 | 26.1 | 110 | J | 13.1 | 31 | 353 | 10.4 | -3.4 | 5.4 | 5 | J |
| 3 | 602 | 19.4 | 89 | J | 10.5 | -4 | 359 | 10.2 | 0.0 | -0.7 | 2 | J |
| 4 | 601 | 16.9 | 96 | J | 9.0 | -19 | 4 | 8.2 | 1.3 | -2.6 | 2 | J |
| 5 | 589 | 15.9 | 97 | J | 8.5 | -23 | 348 | 7.5 | -0.9 | -3.5 | 2 | J |
| 6 | 590 | 14.5 | 73 | J | 8.4 | -44 | 332 | 5.1 | -1.8 | -6.0 | 2 | J |
| 7 | 569 | 11.4 | 64 | J | 8.9 | -37 | 356 | 5.1 | 0.1 | -3.9 | 6 | J |
| 8 | 596 | 3.1 | 82 | J | 10.3 | -13 | 38 | 7.7 | 6.1 | -1.8 | 2 | J |
| 9 | 599 | 2.8 | 103 | J | 10.0 | -14 | 35 | 7.9 | 5.6 | -2.2 | 1 | J |
| 10 | 587 | 3.0 | 87 | J | 9.9 | -14 | 18 | 8.9 | 2.9 | -2.3 | 2 | J |
| 11 | 607 | 4.0 | 106 | J | 9.7 | -26 | 36 | 7.0 | 5.0 | -4.2 | 2 | J |
| 12 | 583 | 4.9 | 121 | J | 9.6 | -31 | 6 | 7.8 | 0.8 | -4.7 | 3 | J |
| 13 | 613 | 5.4 | 192 | J | 9.0 | -25 | 18 | 6.4 | 2.1 | -3.1 | 5 | J |
| 14 | 606 | 5.6 | 171 | J | 9.2 | -15 | 27 | 7.2 | 3.8 | -2.0 | 4 | J |
| 15 | 600 | 6.5 | 204 | J | 9.5 | -40 | 20 | 6.2 | 2.7 | -5.3 | 4 | J |
| 16 | 581 | 6.7 | 131 | J | 9.6 | -24 | 4 | 7.7 | 1.0 | -3.3 | 4 | J |
| 17 | 592 | 8.0 | 183 | J | 9.1 | -43 | 354 | 6.2 | 0.5 | -5.8 | 3 | J |
| 18 | 591 | 8.1 | 153 | J | 9.4 | -42 | 338 | 5.8 | -0.8 | -6.0 | 4 | J |
| 19 | 563 | 8.0 | 119 | J | 9.8 | -36 | 325 | 5.7 | -2.2 | -6.0 | 5 | J |
| 20 | 583 | 8.3 | 154 | J | 9.7 | -60 | 342 | 3.6 | 1.2 | -6.5 | 6 | J |
| 21 | 573 | 7.6 | 126 | J | 9.2 | -39 | 1 | 6.7 | 2.2 | -5.0 | 3 | J |
| 22 | 567 | 7.7 | 192 | J | 9.4 | -45 | 336 | 5.4 | 0.2 | -6.4 | 4 | J |
| 23 | 573 | 6.6 | 148 | J | 9.6 | -42 | 2 | 6.8 | 2.7 | -5.5 | 3 | J |
| 24 | 592 | 7.6 | 212 | J | 9.3 | -28 | 319 | 4.7 | -2.4 | -4.6 | 6 | J |

MAY 24, 1983 144

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 557 | 4.5 | 72 | J | 5.6 | -43 | 326 | 3.0 | -0.6 | -3.8 | 3 | J |
| 2 | 560 | 4.2 | 83 | J | 5.8 | -30 | 331 | 3.7 | -1.1 | -3.0 | 3 | J |
| 3 | 586 | 4.6 | 109 | J | 6.0 | -5 | 286 | 1.5 | -4.7 | -1.9 | 3 | J |
| 4 | 571 | 4.6 | 107 | J | 5.7 | 4 | 334 | 3.4 | -1.7 | -0.2 | 4 | J |
| 5 | 568 | 4.5 | 99 | J | 5.7 | -19 | 345 | 3.3 | -0.6 | -1.3 | 4 | J |
| 6 | 578 | 4.6 | 119 | J | 5.9 | 11 | 299 | 2.4 | -4.5 | 0.3 | 3 | J |
| 7 | 562 | 4.8 | 117 | J | 6.1 | 0 | 314 | 3.3 | -3.4 | -0.3 | 4 | J |
| 8 | 572 | 5.0 | 102 | J | 6.3 | 25 | 296 | 2.4 | -5.0 | 2.3 | 2 | J |
| 9 | | | | | | | | | | | | |
| 10 | 510 | 5.0 | 68 | J | 6.9 | -1 | 341 | 6.4 | -2.2 | -0.1 | 1 | J |
| 11 | 520 | 4.8 | 93 | J | 6.5 | 28 | 351 | 5.2 | -0.8 | 2.8 | 2 | J |
| 12 | 546 | 5.1 | 109 | J | 6.3 | 9 | 298 | 2.5 | -4.6 | 0.9 | 3 | J |
| 13 | 553 | 5.8 | 124 | J | 8.6 | -8 | 20 | 5.3 | 1.9 | -0.8 | 8 | J |
| 14 | 532 | 10.8 | 279 | J | 14.1 | -19 | 27 | 11.5 | 6.0 | -4.3 | 3 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 11.5 | 3 | 36 | 6.9 | 5.0 | 1.1 | 8 | J |
| 17 | 694 | 10.6 | 455 | J | 11.9 | -60 | 242 | -1.9 | -2.2 | -7.5 | 9 | J |
| 18 | 718 | 19.4 | 233 | J | 17.0 | -64 | 262 | -0.9 | -3.1 | -15.2 | 7 | J |
| 19 | 731 | 16.9 | 340 | J | 16.6 | -4 | 206 | -10.1 | -4.5 | -2.2 | 12 | J |
| 20 | 686 | 13.4 | 297 | J | 12.6 | -62 | 315 | 2.1 | -0.1 | -5.9 | 11 | J |
| 21 | 692 | 13.0 | 261 | J | 8.7 | -48 | 221 | -3.3 | -0.9 | -5.5 | 6 | J |
| 22 | 697 | 30.2 | 95 | J | 6.8 | 27 | 188 | -4.4 | -1.5 | 1.9 | 5 | J |
| 23 | 703 | 19.0 | 128 | J | 9.2 | 61 | 186 | -4.1 | -3.4 | 6.7 | 3 | J |
| 24 | 713 | 10.3 | 160 | J | 10.8 | 46 | 178 | -7.1 | -2.6 | 6.9 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 383 | 6.2 | 43 | J | | | | | | | | |
| 2 | 391 | 7.8 | 43 | J | | | | | | | | |
| 3 | 380 | 7.6 | 44 | J | | | | | | | | |
| 4 | 387 | 8.0 | 55 | J | | | | | | | | |
| 5 | 374 | 8.4 | 43 | J | 7.6 | -15 | 131 | -4.5 | 5.4 | -1.0 | 2 | J |
| 6 | 392 | 10.3 | 43 | J | 7.7 | 8 | 97 | -0.7 | 5.9 | 1.5 | 4 | J |
| 7 | 372 | 9.5 | 51 | J | 7.0 | 18 | 157 | -5.3 | 2.1 | 2.0 | 3 | J |
| 8 | 382 | 9.1 | 39 | J | 8.2 | 34 | 131 | -3.8 | 4.3 | 3.9 | 4 | J |
| 9 | 387 | 9.0 | 43 | J | 8.5 | 26 | 108 | -2.2 | 6.9 | 3.4 | 2 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 413 | 8.2 | 46 | J | 6.6 | 68 | 146 | -1.9 | 1.6 | 5.6 | 2 | J |
| 13 | | | | | 6.1 | 15 | 163 | -5.3 | 1.7 | 1.4 | 2 | J |
| 14 | | | | | 6.5 | -25 | 264 | -0.4 | -4.3 | -1.9 | 5 | J |
| 15 | 395 | 10.7 | 101 | J | 7.4 | 4 | 119 | -2.3 | 4.2 | 0.5 | 6 | J |
| 16 | 395 | 10.4 | 88 | J | 7.4 | 11 | 149 | -3.9 | 2.2 | 1.1 | 6 | J |
| 17 | | | | | 7.5 | -6 | 232 | -3.6 | -4.5 | -1.3 | 5 | J |
| 18 | 425 | 11.1 | 82 | J | 7.1 | -46 | 107 | -1.2 | 4.5 | -3.2 | 4 | J |
| 19 | 403 | 10.4 | 98 | J | 6.7 | -40 | 145 | -3.5 | 3.3 | -2.8 | 4 | J |
| 20 | 384 | 10.2 | 67 | J | 7.7 | -9 | 157 | -6.4 | 2.9 | -0.2 | 3 | J |
| 21 | 386 | 10.8 | 58 | J | 8.3 | 7 | 135 | -5.0 | 4.4 | 2.5 | 4 | J |
| 22 | 403 | 10.5 | 91 | J | 8.0 | 2 | 123 | -3.9 | 5.5 | 2.3 | 4 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

# 05/31/83 – 06/11/83

MAY 31, 1983 151

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 419 | 9.5 | 81 | J | 7.1 | 8 | 155 | -5.7 | 2.3 | 1.6 | 3 | J |
| 3 | 427 | 10.8 | 105 | J | 7.6 | 13 | 222 | -4.8 | -4.5 | 0.3 | 4 | J |
| 4 | 416 | 9.7 | 64 | J | 9.3 | 28 | 181 | -7.1 | -0.9 | 3.6 | 4 | J |
| 5 | 417 | 10.4 | 75 | J | 9.3 | 2 | 141 | -6.6 | 5.2 | 1.1 | 4 | J |
| 6 | | | | | 8.4 | -10 | 129 | -5.0 | 6.2 | -0.8 | 2 | J |
| 7 | 420 | 10.2 | 76 | J | 9.2 | -36 | 138 | -5.2 | 4.9 | -4.8 | 3 | J |
| 8 | 402 | 9.2 | 58 | J | 8.8 | 6 | 163 | -8.1 | 2.5 | 0.9 | 2 | J |
| 9 | 417 | 8.6 | 55 | J | 9.3 | -1 | 133 | -6.1 | 6.6 | -0.3 | 2 | J |
| 10 | 422 | 9.3 | 71 | J | 9.1 | -1 | 128 | -5.4 | 6.9 | -0.5 | 2 | J |
| 11 | 427 | 9.9 | 97 | J | 9.1 | 9 | 122 | -4.6 | 7.4 | 0.9 | 2 | J |
| 12 | 411 | 9.3 | 91 | J | 9.1 | 33 | 191 | -5.8 | -0.9 | 3.9 | 6 | J |
| 13 | 401 | 9.1 | 86 | J | 9.3 | 6 | 163 | -8.5 | 2.6 | 0.8 | 3 | J |
| 14 | 433 | 10.3 | 80 | J | 10.5 | -12 | 117 | -4.3 | 8.3 | -2.2 | 4 | J |
| 15 | 418 | 10.3 | 77 | J | 10.5 | -15 | 150 | -6.7 | 3.9 | -2.0 | 7 | J |
| 16 | | | | | 9.7 | 13 | 156 | -8.3 | 3.5 | 2.4 | 3 | J |
| 17 | | | | | 9.5 | -2 | 130 | -5.4 | 6.4 | 0.6 | 4 | J |
| 18 | 413 | 10.5 | 71 | J | 10.0 | 12 | 120 | -4.7 | 7.6 | 3.6 | 3 | J |
| 19 | 439 | 12.3 | 92 | J | 10.1 | 2 | 107 | -2.8 | 8.8 | 2.7 | 3 | J |
| 20 | 428 | 11.0 | 76 | J | 10.6 | -5 | 110 | -3.5 | 9.4 | 2.0 | 3 | J |
| 21 | 431 | 10.5 | 69 | J | 11.6 | -4 | 115 | -4.4 | 9.1 | 2.4 | 5 | J |
| 22 | 419 | 9.4 | 48 | J | 12.1 | -11 | 118 | -5.5 | 10.5 | 1.5 | 2 | J |
| 23 | 431 | 9.1 | 52 | J | 11.6 | -19 | 127 | -6.3 | 9.1 | -0.4 | 4 | J |
| 24 | | | | | | | | | | | | |

JUN. 1, 1983 152

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 9.2 | -55 | 195 | -3.7 | 0.1 | -5.6 | 6 | J |
| 5 | | | | | 8.3 | -35 | 170 | -6.4 | 1.8 | -4.3 | 3 | J |
| 6 | | | | | 11.0 | -3 | 197 | -9.8 | -2.9 | -0.8 | 4 | J |
| 7 | | | | | 9.9 | -19 | 190 | -4.9 | -0.8 | -1.8 | 8 | J |
| 8 | 439 | 7.5 | 95 | J | 11.2 | -8 | 138 | -7.4 | 6.7 | -1.4 | 5 | J |
| 9 | | | | | 10.8 | 5 | 191 | -9.5 | -1.8 | 0.9 | 5 | J |
| 10 | 465 | 8.6 | 164 | J | 11.1 | 15 | 129 | -6.3 | 8.0 | 2.2 | 4 | J |
| 11 | 453 | 7.9 | 146 | J | 10.8 | -1 | 113 | -4.1 | 9.5 | -0.9 | 3 | J |
| 12 | 431 | 10.1 | 184 | J | 10.3 | 17 | 158 | -8.4 | 3.6 | 2.5 | 4 | J |
| 13 | 462 | 9.9 | 215 | J | 10.0 | 17 | 143 | -6.7 | 5.2 | 2.3 | 5 | J |
| 14 | 432 | 8.8 | 138 | J | 10.0 | -7 | 134 | -6.6 | 6.8 | -1.3 | 3 | J |
| 15 | | | | | | | | | | | | |
| 16 | 407 | 9.7 | 66 | J | 10.5 | -23 | 153 | -8.6 | 4.7 | -3.8 | 0 | J |
| 17 | 420 | 9.3 | 76 | J | 10.0 | -25 | 138 | -6.3 | 6.1 | -3.2 | 4 | J |
| 18 | 412 | 10.3 | 85 | J | 9.3 | 12 | 153 | -7.6 | 3.4 | 2.5 | 3 | J |
| 19 | 405 | 9.3 | 75 | J | 8.9 | -21 | 160 | -7.5 | 3.4 | -2.3 | 2 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | 10.0 | 1 | 142 | -4.1 | 3.0 | 1.2 | 9 | J |

JUN. 2, 1983 153

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 426 | 6.2 | 126 | J | 9.3 | 1 | 148 | -6.8 | 4.0 | 1.5 | 5 | J |
| 2 | | | | | 9.1 | 15 | 142 | -6.5 | 4.3 | 3.6 | 3 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 467 | 7.3 | 97 | J | 6.6 | -49 | 140 | -3.2 | 2.8 | -4.6 | 2 | J |
| 8 | 471 | 7.8 | 120 | J | 6.8 | -27 | 118 | -2.5 | 4.6 | -2.7 | 3 | J |
| 9 | | | | | | | | | | | | |
| 10 | 465 | 8.2 | 121 | J | 7.1 | 9 | 130 | -3.9 | 4.7 | 0.7 | 3 | J |
| 11 | 473 | 7.8 | 98 | J | 7.1 | -24 | 121 | -2.7 | 4.3 | -2.7 | 4 | J |
| 12 | 474 | 8.2 | 100 | J | 7.1 | -1 | 120 | -2.8 | 4.9 | -0.5 | 4 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 451 | 9.1 | 105 | J | 7.4 | 39 | 178 | -5.2 | 0.1 | 4.2 | 3 | J |
| 16 | 449 | 8.4 | 74 | J | 7.1 | 30 | 165 | -5.7 | 1.3 | 3.5 | 2 | J |
| 17 | 450 | 8.5 | 71 | J | 7.6 | 21 | 160 | -5.7 | 1.8 | 2.6 | 4 | J |
| 18 | 468 | 8.6 | 78 | J | 7.2 | 36 | 155 | -3.5 | 1.1 | 3.1 | 5 | J |
| 19 | 472 | 8.0 | 79 | J | 7.0 | 1 | 1[illegible]4 | -1.5 | 6.0 | 1.6 | 3 | J |
| 20 | 465 | 7.6 | 65 | J | 7.2 | -11 | 108 | -2.1 | 6.5 | 0.6 | 2 | J |
| 21 | 458 | 7.2 | 67 | J | 6.9 | -10 | 116 | -2.8 | 5.9 | 0.8 | 2 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 3, 1983 154

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 6.2 | -7 | 88 | 0.1 | 3.2 | 0.5 | 5 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 519 | 5.4 | 100 | J | 6.5 | -12 | 111 | -1.8 | 4.6 | -1.1 | 4 | J |
| 9 | 523 | 5.0 | 77 | J | 6.3 | -20 | 100 | -0.9 | 4.8 | -2.0 | 3 | J |
| 10 | 506 | 4.6 | 61 | J | 6.7 | 9 | 166 | -6.0 | 1.6 | 0.9 | 2 | J |
| 11 | 510 | 4.5 | 70 | J | 6.6 | 8 | 171 | -6.3 | 1.1 | 0.8 | 2 | J |
| 12 | 527 | 5.0 | 122 | J | 6.4 | 24 | 187 | -5.5 | -0.5 | 2.5 | 2 | J |
| 13 | 524 | 5.0 | 123 | J | 6.0 | 20 | 192 | -5.2 | -1.0 | 2.0 | 2 | J |
| 14 | 513 | 4.7 | 83 | J | 5.9 | 14 | 186 | -5.7 | -0.5 | 1.5 | 0 | J |
| 15 | 510 | 4.1 | 64 | J | 5.1 | -5 | 183 | -4.8 | -0.2 | -0.4 | 2 | J |
| 16 | 504 | 4.4 | 101 | J | 5.2 | -21 | 163 | -2.8 | 0.9 | -1.1 | 4 | J |
| 17 | 494 | 4.9 | 68 | J | 4.6 | 4 | 57 | 2.4 | 3.6 | 0.7 | 1 | J |
| 18 | 498 | 4.3 | 53 | J | 5.2 | -9 | 44 | 3.6 | 3.6 | -0.2 | 1 | J |
| 19 | 499 | 4.2 | 55 | J | 4.8 | -7 | 47 | 3.2 | 3.5 | 0.2 | 1 | J |
| 20 | | | | | | | | | | | | |
| 21 | 480 | 4.8 | 52 | J | 5.3 | -23 | 45 | 3.3 | 3.7 | -0.8 | 2 | J |
| 22 | 474 | 5.8 | 65 | J | 4.4 | -8 | 97 | -0.3 | 2.8 | 0.6 | 3 | J |
| 23 | 463 | 5.4 | 78 | J | 4.2 | 17 | 124 | -1.6 | 1.9 | 1.6 | 3 | J |
| 24 | 488 | 5.1 | 74 | J | 4.6 | -20 | 48 | 1.9 | 2.3 | -0.3 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 484 | 5.5 | 63 | J | 5.3 | -21 | 65 | 1.9 | 4.5 | -0.4 | 2 | J |
| 2 | 479 | 5.2 | 65 | J | 4.5 | -1 | 66 | 1.5 | 3.4 | 0.9 | 2 | J |
| 3 | 464 | 4.9 | 48 | J | 5.1 | 18 | 122 | -2.4 | 3.4 | 2.3 | 2 | J |
| 4 | 456 | 4.6 | 39 | J | 5.3 | 14 | 153 | -4.2 | 1.9 | 1.6 | 2 | J |
| 5 | 467 | 4.7 | 47 | J | 5.1 | 8 | 152 | -3.4 | 1.7 | 0.8 | 3 | J |
| 6 | 469 | 4.9 | 40 | J | 5.4 | 3 | 119 | -2.5 | 4.5 | 0.6 | 1 | J |
| 7 | 470 | 5.0 | 43 | J | 5.4 | -11 | 113 | -2.0 | 4.7 | -0.9 | 1 | J |
| 8 | 463 | 4.7 | 46 | J | 5.4 | -2 | 134 | -3.1 | 3.2 | -0.2 | 3 | J |
| 9 | 449 | 4.7 | 63 | J | 5.2 | 2 | 155 | -4.6 | 2.2 | 0.1 | 1 | J |
| 10 | 429 | 5.4 | 115 | J | 5.3 | 4 | 162 | -4.9 | 1.6 | 0.2 | 1 | J |
| 11 | 441 | 5.7 | 95 | J | 5.7 | 6 | 144 | -4.5 | 3.3 | 0.3 | 1 | J |
| 12 | 420 | 4.5 | 34 | J | 5.8 | 2 | 161 | -5.5 | 1.9 | 0.0 | 1 | J |
| 13 | 418 | 4.5 | 37 | J | 6.2 | 0 | 165 | -6.0 | 1.6 | -0.2 | 1 | J |
| 14 | 414 | 4.5 | 34 | J | 5.8 | 7 | 149 | -4.7 | 2.8 | 0.5 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | 6.7 | 7 | 152 | -3.5 | 1.7 | 0.9 | 6 | J |
| 20 | | | | | | | | | | | | |
| 21 | 394 | 6.5 | 51 | J | 6.4 | -15 | 139 | -4.6 | 4.3 | -0.3 | 1 | J |
| 22 | 395 | 6.2 | 40 | J | 6.3 | 0 | 135 | -4.4 | 4.1 | 1.4 | 1 | J |
| 23 | 394 | 5.9 | 37 | J | 6.8 | 1 | 130 | -4.4 | 4.9 | 1.8 | 1 | J |
| 24 | 394 | 6.6 | 45 | J | 6.9 | -12 | 131 | -4.4 | 5.2 | 0.3 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 381 | 5.7 | 44 | J | 7.3 | -7 | 147 | -6.0 | 4.0 | 0.3 | 1 | J |
| 2 | 375 | 6.0 | 36 | J | 7.2 | 1 | 153 | -6.3 | 3.1 | 1.0 | 1 | J |
| 3 | 378 | 7.0 | 35 | J | 7.4 | -5 | 136 | -5.3 | 5.1 | 0.5 | 1 | J |
| 4 | 367 | 9.2 | 30 | J | 7.2 | 6 | 139 | -5.3 | 4.4 | 1.5 | 1 | J |
| 5 | 401 | 4.6 | 42 | J | 8.0 | 3 | 144 | -6.3 | 4.5 | 1.0 | 2 | J |
| 6 | 414 | 3.2 | 48 | J | 8.2 | -5 | 142 | -6.4 | 5.0 | -0.4 | 1 | J |
| 7 | 377 | 5.6 | 32 | J | 7.6 | -8 | 151 | -6.2 | 3.5 | -0.9 | 2 | J |
| 8 | 420 | 3.3 | 45 | J | 8.4 | 7 | 146 | -6.7 | 4.6 | 0.9 | 2 | J |
| 9 | 474 | 3.0 | 78 | J | 9.1 | -6 | 133 | -5.9 | 6.3 | -1.3 | 2 | J |
| 10 | 488 | 3.5 | 80 | J | 9.7 | -9 | 116 | -4.1 | 8.2 | -2.2 | 2 | J |
| 11 | 475 | 4.5 | 63 | J | 9.7 | 10 | 132 | -6.1 | 6.9 | 0.9 | 3 | J |
| 12 | 461 | 7.0 | 69 | J | 9.6 | 37 | 133 | -5.1 | 6.0 | 5.0 | 2 | J |
| 13 | 462 | 7.9 | 79 | J | 9.4 | 57 | 178 | -3.2 | 0.5 | 4.9 | 7 | J |
| 14 | 464 | 5.5 | 69 | J | 10.4 | -6 | 114 | -4.2 | 9.3 | -1.6 | 1 | J |
| 15 | 462 | 4.7 | 73 | J | 10.6 | -11 | 129 | -6.2 | 7.7 | -2.0 | 3 | J |
| 16 | 450 | 4.6 | 86 | J | 10.6 | 4 | 134 | -7.3 | 7.5 | 1.1 | 2 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 487 | 5.0 | 164 | J | 9.6 | 11 | 120 | -4.6 | 7.1 | 4.1 | 2 | J |
| 22 | | | | | | | | | | | | |
| 23 | 520 | 6.1 | 213 | J | 9.1 | 0 | 113 | -3.2 | 7.2 | 2.4 | 4 | J |
| 24 | 521 | 5.7 | 151 | J | 9.0 | -7 | 99 | -1.4 | 8.5 | 1.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 503 | 4.9 | 108 | J | 10.3 | 39 | 1[illegible]7 | -2.1 | 5.0 | 7.7 | 4 | J |
| 2 | 507 | 5.8 | 123 | J | 10.4 | -10 | 87 | 0.5 | 9.7 | 0.8 | 4 | J |
| 3 | 465 | 5.5 | 97 | J | 8.5 | 22 | 141 | -5.8 | 3.9 | 3.9 | 3 | J |
| 4 | 472 | 6.0 | 134 | J | 9.2 | 47 | 191 | -5.5 | -2.1 | 5.7 | 4 | J |
| 5 | 487 | 5.8 | 106 | J | 7.8 | 43 | 177 | -5.0 | -0.3 | 4.6 | 4 | J |
| 6 | 519 | 4.1 | 77 | J | 8.0 | 19 | 152 | -6.2 | 3.1 | 2.6 | 3 | J |
| 7 | 519 | 4.5 | 129 | J | 7.7 | -2 | 122 | -3.9 | 6.2 | -0.2 | 2 | J |
| 8 | 515 | 4.9 | 113 | J | 5.9 | -10 | 151 | -4.6 | 2.5 | -1.0 | 3 | J |
| 9 | 536 | 5.2 | 213 | J | 5.6 | 41 | 110 | -1.3 | 3.8 | 3.0 | 3 | J |
| 10 | 550 | 4.8 | 212 | J | 5.5 | 65 | 115 | -0.8 | 2.0 | 3.6 | 4 | J |
| 11 | 548 | 4.8 | 210 | J | 5.9 | 62 | 148 | -2.0 | 1.7 | 4.2 | 3 | J |
| 12 | 533 | 4.5 | 204 | J | 6.6 | 34 | 138 | -3.5 | 3.4 | 2.8 | 3 | J |
| 13 | 549 | 4.4 | 453 | J | 6.1 | 28 | 116 | -2.0 | 4.3 | 2.1 | 3 | J |
| 14 | 539 | 3.6 | 165 | J | 5.7 | -26 | 143 | -2.9 | 2.1 | -1.9 | 4 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 381 | 16.2 | 30 | J | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 336 | 7.0 | 17 | J | | | | | | | | |
| 16 | 403 | 5.3 | 22 | J | | | | | | | | |
| 17 | 349 | 7.9 | 24 | J | | | | | | | | |
| 18 | 354 | 8.2 | 24 | J | | | | | | | | |
| 19 | 348 | 9.8 | 20 | J | | | | | | | | |
| 20 | 348 | 9.1 | 20 | J | | | | | | | | |
| 21 | 344 | 10.8 | 26 | J | | | | | | | | |
| 22 | 349 | 8.9 | 21 | J | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 358 | 20.2 | 23 | J | | | | | | | | |

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OF POOR QUALITY

06/12/83 – 06/19/83

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HR     VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000   SC MAGN LAT LON                     SC                  1000   SC MAGN LAT LON                     SC

                         JUN. 12, 1983                 163                          JUN. 13, 1983                 164

  1    370 20.8  15  J
  2    371 22.4  17  J
  3    371 26.0  19  J
  4    366 23.9  21  J
  5    358 16.4  26  J                                           558 49.2 195  J
  6    357 18.8  28  J
  7    354 15.4  25  J
  8    351 17.1  28  J
  9    361 25.1  27  J                                           536 26.9  88  J
 10    353 27.3  31  J                                           581 23.3  59  J   12.9 -15  81   1.9  11.6  -5.0  2  J
 11    377 30.3  49  J                                           567 16.4  49  J   14.1 -13  84   1.4  12.8  -5.2  2  J
 12    382 27.0  68  J                                           559  9.3  42  J   14.2 -14  88   0.5  13.1  -5.6  1  J
 13    377 32.3  52  J
 14
 15
 16                                                              559  7.6  37  J   12.6 -20  77   2.7  11.5  -4.5  0  J
 17                                                              554  6.6  35  J   12.7 -20  78   2.5  11.9  -3.8  1  J
 18                                                              584  7.9  47  J   12.5 -17  77   2.7  11.9  -2.4  1  J
 19                                                              533  6.5  23  L   12.1 -19  79   2.2  11.7  -2.0  0  J
 20
 21
 22                                                              516  7.0  49  J   12.9 -17  77   2.8  12.6  -0.5  1  J
 23                                                              535  6.4  37  J   13.8 -11  88   0.5  13.7   1.1  1  J
 24                                                              526  6.3  62  J   13.8 -16  88   0.5  13.8  -0.2  1  J

                         JUN. 14, 1983                 165                          JUN. 15, 1983                 166

  1    507  6.8  43  J   13.8 -17  95  -1.2  13.7  -0.8  1  J    443  2.2  40  J    7.5 -37 159  -5.4   3.0  -3.8  1  J
  2    498  8.3  28  J   13.3  -6  86   0.9  13.0   1.3  2  J    454  3.2  29  J    7.6 -47 230  -3.0  -2.5  -5.7  3  J
  3    492  8.1  24  J   12.4   4  84   1.3  12.0   2.8  0  J    453  2.8  39  J    7.3 -51 228  -2.5  -2.1  -5.0  4  J
  4                                                              432  2.7  29  J    7.1 -20 210  -4.9  -2.6  -2.3  4  J
  5                      10.7  -9 111  -3.8   9.9  -1.1  0  J    454  3.1  33  J    6.9 -27 245  -2.4  -4.9  -3.1  3  J
  6                                                              444  2.3  37  J    7.0 -34 226  -3.8  -3.9  -3.7  2  J
  7                      10.0  29 138  -5.9   5.5   4.2  4  J    444  2.5  29  J    7.4 -25 232  -4.0  -5.3  -2.8  2  J
  8                       8.8  12 129  -4.9   6.1   1.1  4  J                       7.7 -10 217  -5.5  -4.2  -0.8  3  J
  9                       9.0  19 127  -5.0   6.9   2.0  2  J    426  2.4  43  J    8.0 -17 204  -6.6  -3.2  -1.8  3  J
 10                       8.9  10 135  -6.0   6.1   0.6  2  J    401  2.2  26  J    7.2  11 179  -7.0   0.3   1.3  1  J
 11                       8.9   6 153  -7.7   4.0   0.3  2  J    401  1.8  27  J    7.1   3 169  -6.7   1.3   0.1  2  J
 12    454  4.4  49  J    9.0  16 147  -7.1   4.9   1.6  2  J    433  1.8  33  J    7.8 -35 145  -5.2   2.8  -5.0  1  J
 13    470  2.9  50  J    8.7  29 142  -5.8   5.1   3.3  2  J
 14    465  6.2  31  J    8.4 -16  99  -1.2   7.1  -3.0  3  J
 15    459  6.3  31  J    7.7  -9 112  -2.7   6.7  -1.7  2  J
 16    464  6.1  29  J    8.1   6 132  -1.6   7.7   0.7  2  J
 17    435  3.9  35  J    7.8  35 168  -6.0   1.1   4.3  2  J    411  2.0  25  J    7.8 -37 192  -5.9  -1.1  -4.6  2  J
 18    432  3.8  36  J    7.6  29 186  -6.4  -1.0   3.5  2  J    419  3.0  77  L    7.8 -50 175  -4.7   0.9  -5.6  2  J
 19    439  3.7  41  J    7.5   6 175  -7.3   0.5   0.9  1  J    438  2.1  27  J    8.2 -14 120  -3.6   6.4  -0.8  4  J
 20                                                              397  2.9  77  L    8.2  -8 137  -5.4   5.2  -0.0  3  J
 21                       6.4  -3 187  -5.8  -0.6  -0.5  3  J                       7.7 -40 187  -4.9   0.4  -4.1  4  J
 22                       7.2   0 196  -6.5  -1.8  -0.5  2  J                       7.8  36 170  -5.3  -0.1   4.0  4  J
 23                       7.3  17 203  -6.3  -3.1   1.3  2  J                       7.9  14 187  -6.8  -1.2   1.4  3  J
 24    447  3.1  32  J    6.6 -39 178  -3.5   0.8  -2.7  5  J    396  2.5  46  J    8.0  15 180  -6.8  -0.4   1.8  4  J

                         JUN. 16, 1983                 167                          JUN. 17, 1983                 168

  1                       7.0 -11 155  -5.7   2.9  -0.6  3  J    437  6.8 109  J    6.1  -3 103  -1.2   5.1   0.8  3  J
  2                       7.3  28 154  -4.6   1.7   3.1  4  J    433  7.4 146  J    6.6   6 102  -1.1   5.2   1.5  4  J
  3    372  2.7  24  J    7.3  -4 168  -6.6   1.5  -0.3  2  J    397  6.2  86  J    6.6   1 161  -5.2   1.8   0.3  4  J
  4    370  2.6  24  J    7.0   3 177  -6.7   0.3   0.4  2  J    405  8.5 173  J    7.3   2 137  -5.0   4.7   0.7  2  J
  5    373  2.6  24  J    7.3 -13 180  -6.8   0.1  -1.6  2  J    388  8.7 177  J    7.7  16 155  -6.6   3.0   2.2  0  J
  6                                                              429  7.9 155  J    8.7 -47 152  -4.9   2.5  -6.0  3  J
  7                                                              418  8.5 154  J    9.1  12 128  -5.2   6.8   1.4  3  J
  8    381  3.8  29  J    7.6  15 166  -4.8   1.3   1.2  5  J
  9    379  3.7  31  J    7.6 -15 233  -6.4  -2.9  -1.5  2  J    417 12.8  95  J    9.4  37 125  -4.2   6.7   4.6  3  J
 10                       7.7 -25 184  -6.9  -1.0  -3.1  1  J    421 12.5  81  J   10.7  33 122  -4.4   7.9   4.1  4  J
 11                                                              411 15.8  51  J   10.3  28 123  -4.8   8.1   3.2  3  J
 12                                                              410 18.5  37  J    8.7  -6 312   5.5  -6.2   0.3  3  J
 13
 14
 15                                                              416 19.1  48  J   12.8 -19 325   9.5  -7.0  -3.3  3  J
 16                                                              420 19.3  46  J   12.4  -2 312   7.9  -8.8  -0.0  4  J
 17                                                                                12.0  25 332   8.2  -4.4   4.2  6  J
 18    407  5.6 141  J    6.5  45 164  -4.3   0.8   4.5  1  J                      11.1 -26 330   8.2  -4.3  -5.0  4  J
 19    388  4.5  51  J    6.9   4 162  -6.1   1.9   0.7  3  J                       9.9   7 337   8.4  -3.7   0.6  4  J
 20    381  4.1  40  J    6.5  16 173  -6.1   0.4   1.9  1  J    532 10.5 248  J    9.5   7 318   6.4  -5.9  -0.0  4  J
 21                                                              482 12.5 164  J   10.0  45 319   4.6  -5.2   5.1  5  J
 22                                                              482 12.7 216  J    9.8   7 314   6.6  -6.9  -0.5  2  J
 23                                                              511 13.9 197  J    8.3  22 309   3.9  -5.3   1.3  6  J
 24    414  6.0  89  J    6.4 -17 130  -3.6   4.5  -0.6  3  J    507 13.5 147  J   11.4   8 314   7.4  -7.8  -0.3  4  J

                         JUN. 18, 1983                 169                          JUN. 19, 1983                 170

  1    533 12.7 314  J   10.3  33 304   4.5  -7.5   3.7  4  J
  2    560 12.1 223  J   12.1   9 316   7.9  -7.8   0.4  5  J
  3    581 11.0 223  J   12.2   9 319   7.4  -6.6   0.7  7  J    622  8.2 295  J    9.0 -71 273   0.1  -1.3  -6.5  6  J
  4    608 10.8 313  J   12.3  -2 309   6.3  -7.7  -1.0  7  J    603  8.8 306  J    9.6 -37 300   3.3  -5.3  -5.4  5  J
  5    602 10.8 264  J   13.2 -13 312   7.2  -7.9  -2.7  7  J    569  7.2 129  J    9.7   6 329   7.9  -4.8   0.8  2  J
  6    578 10.4 163  J   13.4  -1 345  11.3  -3.0  -0.1  7  J    592  8.1 227  J    9.4  14 313   5.5  -5.8   2.2  4  J
  7    616 11.3 283  J   12.0   8 317   6.9  -6.3   1.8  7  J    576  8.6 204  J    9.4  -2 320   6.4  -5.4   0.1  4  J
  8    622 10.7 268  J   11.9 -15 300   4.8  -8.5  -1.6  6  J
  9    613  9.5 223  J   10.6  -3 312   6.5  -7.3   0.6  4  J
 10    628  9.1 229  J   10.7  -9 292   3.7  -9.3   0.1  4  J
 11    643  9.1 239  J   10.2 -10 290   3.0  -8.3   0.1  5  J
 12    645  8.7 229  J   10.2  -6 279   1.4  -9.1   0.8  4  J
 13    640  9.1 276  J   10.2 -16 281   1.8  -9.6  -1.0  3  J
 14
 15
 16
 17
 18
 19    571  9.7 128  J   10.1  -4   9   9.5   1.6  -0.5  3  J
 20
 21
 22
 23
 24    579  8.0 175  J    9.9   9 320   7.0  -6.1   0.1  3  J
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# 06/20/83 – 06/30/83

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HR      VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                   1000  SC MAGN LAT LON                      SC                1000  SC MAGN LAT LON                      SC

                                   JUN. 20, 1983              171                                JUN. 24, 1983              175

  1
  2
  3     476  3.6  470  L
  4
  5
  6
  7
  8
  9
 10
 11
 12
 13
 14                                                                   394  8.8   25  L
 15                                                                   402  9.2   20  L    5.8 -15  28    4.8   2.3   -1.8  1  J
 16                                                                   404  8.5   30  L    5.7 -20  28    4.1   2.0   -1.9  3  J
 17                                                                   393  6.4   42  L
 18                                                                   390  6.7   40  L    6.4  14   7    6.1   0.7    1.5  1  J
 19
 20
 21
 22
 23                                                                   371  6.7   42  L    6.0   7 356    5.9  -0.5    0.6  1  J
 24

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  1                                                                                     7.6  21 326    4.3  -3.2    1.5  5  J
  2                                                                                     7.8  30 309    3.8  -5.0    2.9  4  J
  3                                                                                     8.1  41 309    3.8  -5.1    4.9  1  J
  4
  5
  6
  7                                                                   376  7.7   30  J   10.1  -1 128   -6.2   7.8   -1.2  1  J
  8                                                                   380  7.9   45  J   10.4   3 138   -7.3   6.6   -0.6  3  J
  9                                                                   385  8.4   47  J   10.4   7 138   -7.5   6.9   -0.2  2  J
 10     370  9.0   28  J    6.3  30   3    5.3   1.0    2.9  1  J     382  9.7   62  J   10.2  18 150   -8.2   5.3    1.9  2  J
 11     370  9.3   40  J    6.4  31   6    4.9   1.2    2.7  3  J     386  8.8   51  J    9.8   7 145   -7.6   5.4   -0.2  3  J
 12     361  9.6   56  J    6.6  -2  12    6.2   1.2   -0.5  2  J     384  8.7   50  J    9.6  11 151   -7.6   4.5    0.6  3  J
 13     363  9.5   63  J    6.1 -17 357    5.4  -0.7   -1.6  2  J     422  9.1   71  J    9.2  -9 116   -3.2   6.0   -2.6  6  J
 14     355 10.4   63  J    6.5   5   7    6.2   0.9    0.4  2  J                          9.3  14 123   -4.6   7.4    0.6  3  J
 15     354 10.1   75  J    5.8   8 338    5.0  -1.9    1.1  2  J                          8.9  35 140   -5.4   5.3    4.1  2  J
 16                         6.1  11 345    5.5  -1.4    1.3  2  J                          8.9 -13 172   -5.4   0.6   -1.3  7  J
 17     343 10.4   40  J                                                                   8.4  -1 160   -6.4   2.3   -0.2  5  J
 18     355 11.3   54  J    6.6 -11 325    5.2  -3.6   -1.3  1  J                          9.0  19 155   -7.0   3.2    2.7  4  J
 19     347 12.1   59  J    6.4  -8 337    5.6  -2.3   -1.0  2  J     399  6.7   87  J    7.7  15 158   -6.4   2.4    2.0  3  J
 20     364 13.4   29  J    6.2 -30 284    1.0  -3.8   -2.9  4  J     425  5.9   41  J    7.0   1 166   -5.7   1.4    0.3  4  J
 21     354 13.1   32  J    6.1 -12 330    4.6  -2.4   -1.5  3  J     426  7.8  194  J    6.7  -3 136   -4.5   4.3    0.3  2  J
 22                                                                                     8.1  16 141   -5.4   3.9    2.7  4  J
 23                                                                                     7.2   0 143   -3.3   2.4    0.4  6  J
 24                         7.4  21 338    5.1  -2.4    1.7  5  J     516  5.7  120  J    7.3 -27 312    4.0  -3.9   -3.7  3  J

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  1                        10.0  69 224   -1.8  -2.6    6.0  8  J
  2                         9.1  45 147   -3.7   1.9    4.6  7  J     539  5.2  137  J
  3                                                                   513  5.3  115  J    5.8  62 141   -1.9   1.2    4.6  3  J
  4                                                                   532  4.6  159  J    5.4  63 181   -2.0  -0.1    3.9  3  J
  5                         7.9   9 115   -3.2   6.8    1.0  2  J     495  4.2   91  J    6.2  25 171   -5.3   0.9    2.5  2  J
  6                         7.3 -15 115   -2.9   6.0   -2.4  2  J     486  4.1   82  J    6.6  26 157   -5.2   2.5    2.6  2  J
  7     450  6.3  218  J    7.9  -5 114   -2.9   6.4   -1.5  3  J     499  4.3  115  J    6.6  21 143   -4.6   3.8    1.7  2  J
  8                         7.0  24 129   -3.8   5.1    1.8  2  J
  9                         8.4   1  94   -0.5   7.2   -1.5  4  J     477  4.5  114  J    7.2  17 150   -5.7   3.7    1.2  2  J
 10                         7.6  37 118   -2.6   5.7    2.9  3  J     457  4.3   46  J    7.8   3 163   -7.3   2.2   -0.2  2  J
 11                         5.7  35  98   -0.5   4.5    1.7  3  J     476  5.1   91  J
 12                         5.1  65 105   -0.4   2.4    2.9  3  J     478  5.3  120  J    8.5  26 146   -5.3   4.3    2.1  5  J
 13     436  7.1  107  J    4.8  70 164   -1.4   1.4    3.8  2  J     497  7.6  293  J    8.7  17 125   -3.3   5.1    0.5  6  J
 14     450  7.2  134  J    3.8  30 286    0.7  -2.0    1.9  3  J     457  6.7  136  J    9.5   6 134   -5.5   5.8   -0.5  5  J
 15     452  4.9   69  J    4.3  15 299    1.7  -2.8    1.4  3  J     480  7.6  169  J   10.1 -24 124   -4.6   6.1   -4.9  4  J
 16     438  4.6  110  J    5.6   2 320    4.1  -3.4    0.6  2  J     454  8.2  193  J   10.8   2 126   -5.7   7.8   -0.6  5  J
 17     440  5.5  103  J    4.7 -21 304    2.2  -3.4   -1.3  2  J     452  7.3  150  J   12.1  -8 119   -5.7  10.1   -2.3  3  J
 18     435  5.7  122  J    5.8 -26 209   -4.5  -2.5   -2.5  2  J     434  7.6  130  J   12.7 -19 128   -7.0   9.0   -4.0  4  J
 19                         7.1 -38 201   -5.0  -1.7   -4.3  2  J     424  7.4   98  J   12.9 -12 128   -7.5   9.8   -2.1  3  J
 20
 21                         5.4 -31 155   -3.8   2.1   -2.2  2  J                         12.7 -11 122   -6.3  10.4   -0.9  4  J
 22                         5.6 -47 150   -3.0   2.3   -3.4  2  J     491  9.3  187  J   12.8   3  77    2.8  12.0    2.6  2  J
 23                         5.6 -54 205   -2.4  -0.5   -3.8  3  J     446  9.2  178  J   12.4  -2 100   -2.0  11.4    1.5  4  J
 24                         5.3  -8 148   -3.7   2.4   -0.2  3  J     458  9.0  179  J   12.0  -1 109   -3.5  10.1    1.4  5  J

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  1     444  8.9  129  J   11.8 -11 114   -4.1   9.4   -0.7  6  J     419  5.9   41  J    7.4  14 135   -4.7   4.4    2.2  3  J
  2     435  8.8  171  J   11.7   0 114   -4.5  10.1    0.9  4  J     417  6.0   48  J    7.4  17 135   -4.7   4.5    2.4  3  J
  3     451  8.9  134  J   11.7  10 108   -3.3   9.9    2.4  4  J     430  5.9   52  J    7.5  18 114   -2.7   6.1    2.5  2  J
  4     452  9.5  142  J   12.0  22 112   -3.9   9.5    4.2  4  J     419  5.8   49  J    7.4  11 126   -4.0   5.5    1.3  3  J
  5                                                                   409  5.7   47  J    7.2  21 151   -5.2   3.0    2.1  3  J
  6                                                                   414  5.7   45  J    7.3  27 137   -4.6   4.6    2.7  2  J
  7
  8
  9
 10
 11     387 11.3  125  J   10.2  -2 162   -8.8   2.7   -1.1  4  J
 12     392 10.9   94  J    9.9  -7 157   -7.7   2.9   -1.9  5  J
 13     396  9.9   99  J   10.1   1 141   -6.7   5.3   -1.2  5  J
 14     408  8.6   68  J    9.3  11 137   -6.4   6.2    0.3  3  J
 15     418  6.5   42  J    7.6   9 161   -6.8   2.5    0.7  2  J     404  7.9   48  J    7.0  45 130   -2.9   4.2    3.7  3  J
 16     424  6.5   47  J    7.2  -8 142   -5.0   3.7   -1.4  3  J     409  7.8   49  J    7.0  10 118   -2.7   5.2    0.3  4  J
 17                                                                   426  8.2   52  J    6.8  30  82    0.6   4.4    2.1  5  J
 18     408  6.6   41  J    7.4   8 144   -5.9   4.3    1.0  0  J     409  7.7   48  J    6.8  25 127   -3.1   4.2    2.3  4  J
 19     422  6.6   53  J    7.4  17 139   -4.9   4.2    2.2  3  J     418  7.9   48  J    7.0  13 116   -2.5   5.0    1.5  4  J
 20     420  6.6   50  J    7.4  16 132   -4.4   4.7    2.3  3  J     408  7.4   44  J    7.2   0 123   -3.8   5.8    0.5  2  J
 21     416  6.4   50  J    7.4  26 148   -5.3   2.9    3.5  3  J     405  7.4   54  J    7.0 -18 137   -4.5   4.4   -1.5  3  J
 22     419  6.6   49  J    7.5  12 149   -5.5   3.1    1.9  4  J     402  7.9   74  J    6.2  -9 153   -4.5   2.4   -0.5  3  J
 23     432  6.6   67  J    7.2   1 143   -4.0   3.0    0.6  5  J     403  8.1   80  J    5.8   8 134   -3.4   3.4    1.2  3  J
 24     428  6.4   76  J    7.0  -1 129   -4.1   5.0    0.6  3  J     396  8.3   84  J    6.2 -31 174   -5.0   0.9   -2.9  2  J
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HR   VEL   DEN TEMP/ PLS  AV B GSE GSE  BXGSM  BYGSM  BZGSM SG IMF     VEL   DEN TEMP/ PLS  AV B GSE GSE  BXGSM  BYGSM  BZGSM SG IMF
                1000  SC  MAGN LAT LON                        SC                     1000  SC  MAGN LAT LON                        SC
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 1   427   8.3   76   J
 2   386   8.6   67   J    6.3 -11 172   -5.2    0.8   -1.0  3  J
 3   386   8.1   64   J    6.0   8 185   -4.9   -0.5    0.7  3  J
 4   401   7.7   61   J    6.5  -8 124   -3.2    4.8   -0.8  3  J
 5   402   7.6   60   J    6.3   2 117   -2.7    5.3   -0.1  2  J
 6   409   7.8   39   J    6.5   7 107   -1.7    5.5    0.1  3  J
 7   399   7.3   49   J    6.4  -5 112   -2.3    5.5   -1.4  2  J     359  54.6   30   J
 8   396   7.6   61   J    6.2   7 118   -2.8    5.3   -0.4  1  J     367  55.0   27   J
 9   400   7.2   42   J    6.4  25 116   -2.4    5.4    1.3  2  J
10   379   7.0   37   J    6.0  -5 147   -4.7    2.8   -1.3  2  J     366  58.6   26   L
11   383   6.8   33   J    6.3   8 138   -4.4    4.0   -0.3  2  J
12   354   9.4   41   J
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 1                                                                    497  10.2  126   J    7.3  38 252   -1.5   -5.0    3.5  4  J
 2                                                                                           7.4  14 256   -1.7   -7.0    1.5  0  J
 3
 4
 5                                                                    464   8.2   54   J    7.7  22 258   -1.4   -6.5    3.5  2  J
 6                         9.3  11 337    8.0   -3.1    2.2  3  J     435   8.3   88   J    7.0  -1 303    3.0   -4.7    0.6  4  J
 7   417   6.0   56   J    9.2   7 329    7.3   -4.1    1.9  3  J
 8   434   6.4   67   J    9.1  -4 335    8.0   -3.8    0.3  2  J     451  11.5  106   J    6.2 -37 335    4.1   -2.7   -2.8  3  J
 9   449   7.8   61   J    8.9 -21 359    8.0   -1.0   -2.9  2  J     449  12.2  105   J    5.3 -31 356    4.2   -1.0   -2.3  2  J
10   454   7.6   58   J    8.5 -28  11    6.8    0.1   -3.9  3  J     447  12.7   96   J    5.1 -61 345    2.1   -1.8   -3.6  2  J
11   453   7.2   50   J    8.5 -23   1    7.5   -0.9   -3.1  2  J     440  13.7  100   J    6.1 -20 317    3.6   -3.7   -0.6  3  J
12   449   7.6   62   J    8.6 -16   2    7.9   -0.5   -2.2  2  J     435  12.7   95   J    5.9   4 306    3.2   -4.0    1.8  2  J
13   444   7.1   57   J    8.5 -22   2    7.7   -0.7   -3.0  2  J     442  12.5   75   J    5.9  25 275    0.4   -3.3    3.2  4  J
14   446   7.3   60   J    8.5 -21   7    7.4    0.1   -3.0  3  J     450  12.9   65   J    5.2  22 252   -1.4   -3.5    2.9  2  J
15   464   8.2   75   J    8.2 -41 348    4.9   -2.1   -4.0  5  J
16   444   7.4   90   J    7.8  -8 352    7.0   -1.1   -0.8  3  J                              6.9  23 277    0.7   -5.3    3.7  3  J
17   450   7.8   95   J    7.8 -19 351    5.8   -1.2   -1.9  5  J                              8.1  24 278    1.0   -6.6    4.2  2  J
18   446   8.7  131   J    8.4 -10 348    6.6   -1.5   -1.1  5  J
19   458   8.0   72   J    8.4  11 303    4.2   -6.4    1.6  3  J
20   447   7.5  102   J    7.6   5 333    5.7   -2.9    0.4  4  J
21   433   8.4  186   J    7.3   3 351    6.9   -1.1    0.3  2  J                              8.2  23 316    3.7   -3.7    1.9  6  J
22   445   8.3  129   J    7.3  -8 333    5.9   -2.9   -1.2  3  J     399  19.4   96   J    9.6   2 335    7.1   -3.3   -0.0  6  J
23                         7.6  12 297    3.2   -6.4    0.9  2  J     415  18.4   56   J   10.0  11 276    0.8   -7.5    0.8  7  J
24                         7.6  29 284    1.5   -6.4    2.9  2  J     429  16.4   70   J   10.2  36 231   -4.8   -6.4    5.0  4  J

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 1   422  15.0   60   J    8.4  20 248   -2.7   -6.9    2.2  4  J                              3.9  -2 146   -2.6    1.7   -0.0  3  J
 2   430  18.7  155   J    8.6  28 291    1.1   -2.8    1.5  8  J     493   5.5  108   J
 3   422  19.9  149   J    8.9 -42 350    5.9   -1.1   -5.4  4  J     488   5.2  113   J    5.1  -2 258   -0.9   -4.4   -0.1  2  J
 4   418  18.3  109   J    9.4 -12 307    5.4   -7.3   -1.5  2  J     500   5.3   97   J    4.5   8 261   -0.7   -4.3    0.9  1  J
 5   422  12.6  110   J    7.1   2 285    1.7   -6.2    0.9  3  J     501   5.3  106   J    2.9  19 253   -0.7   -2.1    1.1  2  J
 6   433  11.2  123   J    7.3   7 281    1.3   -6.5    1.9  2  J     509   3.9   73   J    5.2 -19 341    4.6   -1.8   -1.4  1  J
 7   430  10.8  171   J    7.3 -13 332    5.5   -3.2   -0.8  3  J     510   4.4   90   J    4.8  11 284    0.9   -3.3    1.5  3  J
 8   434  12.2  293   J    6.6  -8 341    6.1   -2.3   -0.3  1  J     500   4.9   93   J    5.2 -12 314    3.4   -3.7   -0.1  1  J
 9   450  10.5  148   J    4.9 -19  21    4.3    1.1   -2.0  1  J     478   7.6  115   J    4.5 -33 353    3.2   -1.0   -1.9  2  J
10   449   9.7  153   J    5.5 -17   2    4.9   -0.3   -1.5  2  J     465   7.0   61   J    4.9  22 321    3.4   -2.0    2.6  1  J
11   466   8.9  108   J    5.0   5 301    2.1   -3.1    1.5  3  J     471   6.8   77   J    4.3  40 337    2.9   -0.3    2.9  1  J
12   489   8.3  105   J    5.7  25 225   -2.2   -1.6    2.1  5  J
13   480   9.5  124   J    6.9 -18 348    6.1   -1.9   -1.5  2  J     462   5.8   51   J    4.6  -6 332    3.8   -2.0    0.2  1  J
14   483   8.8  131   J    6.3  -8  13    5.9    1.0   -1.2  2  J     462   5.9   65   J    4.2  13 328    3.1   -1.6    1.4  2  J
15                                                                    460   5.2   49   J    4.1   9 323    3.1   -2.1    1.2  1  J
16   511   6.1  140   J    5.8   2 347    5.4   -1.2    0.4  2  J     454   4.8   49   J    4.8   5 339    4.3   -1.5    0.7  1  J
17   489   7.5  122   J    5.8 -10 332    5.0   -2.8   -0.6  0  J     456   4.4   48   J    4.3  12 331    3.6   -1.8    1.2  1  J
18   490   7.6  124   J    5.9  -6 342    5.2   -1.7   -0.4  2  J     457   3.6   68   J    4.0  15 319    2.8   -2.4    1.2  1  J
19                                                                    448   3.9   58   J    3.7  19 323    2.6   -2.0    1.2  1  J
20   478   8.5  116   J    4.6 -29 327    2.1   -1.3   -1.4  3  J     419   5.0   38   J    3.6  -8 324    2.9   -2.1   -0.5  1  J
21                         5.5 -67 202   -0.7   -0.2   -1.8  6  J     433   5.1   39   J    3.7  16 316    2.3   -2.2    0.8  2  J
22                                                                    424   5.2   45   J    3.8  35 302    1.6   -2.7    1.9  1  J
23                         5.3   2 185   -2.7   -0.2    0.1  4  J     421   5.3   40   J    3.8  40 297    1.1   -2.3    1.9  2  J
24                                                                    415   6.4   36   J    3.6   8 322    2.7   -2.1    0.3  1  J

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 1   416   7.5   39   J    3.7  12 323    2.8   -2.2    0.6  1  J     395   5.3   59   J    6.8  12 151   -5.6    3.1    1.5  2  J
 2   410   7.1   37   J    3.7  18 322    2.6   -2.1    1.0  1  J     394   5.5   57   J    6.7  26 176   -5.4    0.4    2.6  3  J
 3   406   7.5   33   J    3.6  30 271    0.0   -2.7    1.7  2  J     393   6.9   45   J
 4   399   8.4   40   J    3.3  68 261   -0.2   -0.9    2.8  2  J
 5   399   9.2   41   J    4.1  27 252   -0.9   -2.5    1.8  3  J
 6   401  10.1   44   J    3.7 -18 264   -0.3   -3.1   -0.4  2  J
 7   400  12.2   48   J    3.6   6 255   -0.7   -2.5    0.9  2  J
 8   398  15.0   37   J    2.9  52 213   -0.8   -0.2    1.3  3  J     372   5.6   49   J
 9   393  14.6   25   J    3.4   2 133   -2.2    2.3   -0.6  1  J     379   5.8   35   J
10                                                                    377   6.1   43   J
11   393   9.6   37   J    4.2  27 171   -2.9    1.0    1.2  3  J     383   6.5   47   J
12   393  10.0   34   J    3.6  -5 105   -0.8    2.6   -1.2  2  J     395   7.9   67   J
13   395  11.9   31   J    2.8 -15  91   -0.0    2.2   -1.5  1  J     400   8.1   56   J
14   391  13.0   33   J    2.7  14 165   -1.8    0.6    0.3  2  J     402   7.8   51   J
15   385  13.4   30   J    3.1  28 131   -1.4    1.8    0.7  2  J     406   8.9   59   J
16   385  12.4   29   J    2.9 -33 114   -0.9    1.6   -1.8  1  J     408   9.2  107   J
17                                                                    423  12.8   87   J
18   381  11.3   30   J    3.6  -7 131   -2.3    2.6   -0.7  0  J     426  16.6   78   J
19   399  10.1   25   J    4.1  -2 137   -2.9    2.7   -0.2  1  J     410  17.7   88   J
20   408  10.9   22   J    3.6  -1 143   -2.7    2.0   -0.0  1  J     411  18.0  128   J
21   405  10.3   22   J    4.5  25 169   -3.8    0.7    1.8  1  J
22   415  11.0   29   J    4.9  26 151   -3.7    1.9    2.2  2  J
23   415   8.9   30   J    5.4  23 154   -4.4    2.0    2.2  1  J     452  20.0  477   J
24   406   6.1   40   J    6.2   9 142   -4.7    3.6    1.2  1  J
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# 07/13/83 – 07/25/83

JUL. 13, 1983

194

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 499 | 5.4 | 385 | J | | | | | | | | |
| 2 | 551 | 3.6 | 291 | J | | | | | | | | |
| 3 | 550 | 4.6 | 521 | L | | | | | | | | |
| 4 | 521 | 2.8 | 393 | L | 12.6 | 8 | 162 | -11.7 | 3.9 | 1.4 | 1 | J |
| 5 | 580 | 4.0 | 395 | L | 11.3 | -7 | 120 | -4.8 | 8.0 | -2.3 | 6 | J |
| 6 | 596 | 4.0 | 320 | L | 11.0 | -9 | 136 | -7.1 | 6.4 | -2.8 | 4 | J |
| 7 | 568 | 3.4 | 209 | L | 11.5 | -2 | 151 | -9.4 | 4.9 | -1.6 | 4 | J |
| 8 | 577 | 3.5 | 244 | L | | | | | | | | |
| 9 | | | | | | | | | | | | |
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| 24 | | | | | | | | | | | | |

JUL. 19, 1983

200

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 5.2 | -27 | 40 | 3.3 | 2.8 | -2.2 | 2 | J |
| 24 | | | | | 5.4 | 1 | 70 | 1.6 | 4.4 | 0.2 | 3 | J |

JUL. 20, 1983

201

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 517 | 5.4 | 97 | J | 5.1 | -36 | 273 | 0.1 | -2.6 | -1.1 | 4 | J |
| 7 | 496 | 5.4 | 111 | J | 5.1 | -7 | 29 | 3.4 | 1.7 | -1.0 | 3 | J |
| 8 | 498 | 5.5 | 86 | J | 5.5 | -5 | 46 | 3.7 | 3.4 | -1.7 | 1 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 5.8 | 2 | 316 | 3.4 | -2.9 | 1.5 | 3 | J |
| 13 | 467 | 5.4 | 59 | J | 5.6 | 29 | 346 | 4.3 | -0.0 | 2.7 | 2 | J |
| 14 | 472 | 4.9 | 69 | J | 5.9 | 37 | 328 | 3.3 | -0.9 | 3.5 | 3 | J |
| 15 | 475 | 5.3 | 79 | J | 5.9 | 44 | 341 | 3.4 | 0.0 | 3.7 | 3 | J |
| 16 | 466 | 5.6 | 54 | J | 6.1 | 12 | 318 | 3.7 | -2.9 | 1.9 | 3 | J |
| 17 | 473 | 5.7 | 70 | J | 6.0 | 19 | 310 | 3.3 | -3.5 | 2.6 | 2 | J |
| 18 | 461 | 5.2 | 42 | J | 5.5 | 6 | 342 | 4.8 | -1.5 | 0.8 | 2 | J |
| 19 | 463 | 5.9 | 64 | J | 5.8 | -8 | 8 | 5.0 | 0.6 | -0.8 | 3 | J |
| 20 | 489 | 5.9 | 82 | J | 5.6 | 56 | 12 | 2.8 | 0.8 | 4.2 | 2 | J |
| 21 | | | | | 5.4 | 34 | 323 | 3.2 | -2.4 | 2.8 | 2 | J |
| 22 | | | | | 5.0 | 7 | 347 | 4.2 | -1.0 | 0.5 | 3 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | 5.3 | 55 | 44 | 1.3 | 1.2 | 2.5 | 4 | J |

JUL. 21, 1983

202

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.3 | 5 | 309 | 3.3 | -4.0 | 0.5 | 1 | J |
| 2 | | | | | 5.7 | -10 | 296 | 2.2 | -4.6 | -0.7 | 2 | J |
| 3 | 479 | 6.9 | 83 | J | 6.0 | 3 | 268 | -0.2 | -5.0 | 0.7 | 3 | J |
| 4 | 487 | 6.2 | 58 | J | 6.6 | -24 | 246 | -2.3 | -5.6 | -1.8 | 2 | J |
| 5 | 485 | 5.9 | 56 | J | 6.4 | -38 | 243 | -2.2 | -5.0 | -2.9 | 1 | J |
| 6 | 488 | 5.1 | 46 | J | 6.2 | -29 | 227 | -3.7 | -4.6 | -2.0 | 1 | J |
| 7 | 491 | 5.1 | 39 | J | 6.4 | -22 | 224 | -4.2 | -4.6 | -1.1 | 1 | J |
| 8 | 495 | 5.4 | 43 | J | 6.4 | -14 | 220 | -4.7 | -4.2 | -0.1 | 1 | J |
| 9 | 472 | 5.6 | 43 | J | 6.0 | -30 | 227 | -3.5 | -4.6 | -1.4 | 0 | J |
| 10 | 477 | 5.5 | 51 | J | 6.0 | -29 | 226 | -3.6 | -4.5 | -1.2 | 1 | J |
| 11 | 454 | 5.3 | 51 | J | 5.4 | -36 | 232 | -1.1 | -1.9 | -0.6 | 5 | J |
| 12 | 418 | 5.3 | 43 | J | 4.8 | 22 | 37 | 3.5 | 3.1 | 0.5 | 1 | J |
| 13 | 457 | 5.4 | 50 | J | 4.8 | -31 | 260 | -0.6 | -3.7 | -0.5 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 417 | 5.3 | 43 | J | 5.4 | -6 | 16 | 4.4 | 1.1 | -0.8 | 3 | J |
| 17 | 456 | 5.3 | 49 | J | 4.6 | -50 | 268 | -0.1 | -3.3 | -2.5 | 2 | J |
| 18 | 445 | 4.5 | 45 | J | 4.8 | -33 | 275 | 0.3 | -4.0 | -1.8 | 2 | J |
| 19 | 426 | 4.2 | 55 | J | 5.6 | -25 | 307 | 3.1 | -4.3 | -1.9 | 0 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUL. 22, 1983

203

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 427 | 8.1 | 33 | J | 5.1 | -18 | 230 | -3.1 | -3.7 | -1.5 | 1 | J |
| 2 | 418 | 7.8 | 33 | J | 5.2 | -35 | 228 | -2.7 | -3.1 | -2.6 | 2 | J |
| 3 | 416 | 8.1 | 32 | J | 5.0 | -29 | 226 | -2.9 | -3.2 | -2.0 | 2 | J |
| 4 | 420 | 8.0 | 35 | J | 5.3 | -34 | 210 | -3.7 | -2.5 | -2.5 | 2 | J |
| 5 | 422 | 8.0 | 35 | J | 5.6 | -27 | 206 | -4.4 | -2.6 | -2.0 | 1 | J |
| 6 | 421 | 8.8 | 35 | J | 6.2 | -15 | 202 | -5.5 | -2.5 | -1.0 | 1 | J |
| 7 | 417 | 8.8 | 32 | J | 6.4 | -12 | 205 | -5.6 | -2.9 | -0.5 | 1 | J |
| 8 | 415 | 8.9 | 31 | J | 6.5 | -10 | 205 | -5.7 | -2.9 | -0.2 | 1 | J |
| 9 | 414 | 9.6 | 28 | J | 6.4 | -11 | 203 | -5.8 | -2.7 | -0.2 | 1 | J |
| 10 | 411 | 10.0 | 29 | J | 6.2 | -4 | 211 | -5.2 | -3.0 | 0.8 | 1 | J |
| 11 | 404 | 9.8 | 37 | J | 5.8 | -3 | 218 | -4.5 | -3.3 | 1.2 | 1 | J |
| 12 | 396 | 9.7 | 38 | J | 5.8 | -17 | 229 | -3.6 | -4.4 | 0.2 | 1 | J |
| 13 | 397 | 9.4 | 36 | J | 5.6 | -14 | 220 | -4.2 | -3.7 | 0.1 | 1 | J |
| 14 | 397 | 8.5 | 38 | J | 5.2 | -17 | 208 | -4.2 | -2.6 | -0.5 | 2 | J |
| 15 | 390 | 8.4 | 35 | J | 5.1 | -16 | 203 | -4.5 | -2.3 | -0.7 | 1 | J |
| 16 | 400 | 9.2 | 69 | J | 5.2 | -21 | 216 | -3.3 | -2.8 | -0.8 | 2 | J |
| 17 | 395 | 10.4 | 62 | J | 4.6 | -13 | 215 | -3.1 | -2.3 | -0.4 | 2 | J |
| 18 | 364 | 10.0 | 63 | J | 6.3 | 33 | 328 | 4.2 | -2.0 | 3.6 | 2 | J |
| 19 | 361 | 9.9 | 66 | J | 7.2 | 28 | 17 | 5.8 | 2.1 | 3.0 | 2 | J |
| 20 | 401 | 11.8 | 61 | J | | | | | | | | |
| 21 | 407 | 14.1 | 39 | J | | | | | | | | |
| 22 | 395 | 13.3 | 41 | J | 9.0 | -52 | 22 | 4.9 | 1.9 | -6.8 | 3 | J |
| 23 | 420 | 19.2 | 57 | J | 8.8 | 28 | 240 | -3.8 | -6.6 | 4.0 | 2 | J |
| 24 | 418 | 22.2 | 49 | J | 7.7 | 53 | 230 | -2.9 | -3.4 | 6.0 | 2 | J |

JUL. 23, 1983

204

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 413 | 29.0 | 33 | J | 7.3 | 79 | 181 | -1.3 | 0.2 | 6.8 | 2 | J |
| 2 | 419 | 32.5 | 26 | J | 8.4 | 51 | 249 | -1.8 | -4.4 | 6.6 | 2 | J |
| 3 | 425 | 40.3 | 33 | J | 9.0 | 64 | 269 | -0.1 | -2.8 | 7.6 | 4 | J |
| 4 | 413 | 40.6 | 23 | J | 13.8 | 67 | 242 | -2.5 | -2.8 | 13.2 | 2 | J |
| 5 | 414 | 36.2 | 23 | J | 15.2 | 88 | 214 | -0.4 | 2.7 | 14.5 | 4 | J |
| 6 | 419 | 31.3 | 28 | J | 15.6 | 24 | 73 | 3.8 | 13.6 | 2.5 | 6 | J |
| 7 | 417 | 26.0 | 29 | J | 16.5 | 35 | 58 | 7.0 | 13.4 | 5.5 | 3 | J |
| 8 | 421 | 25.7 | 34 | J | 19.1 | 21 | 69 | 6.3 | 17.7 | 0.7 | 3 | J |
| 9 | 426 | 29.0 | 50 | J | 20.4 | -3 | 85 | 1.7 | 17.5 | -8.2 | 7 | J |
| 10 | 437 | 27.8 | 42 | J | 23.2 | 20 | 77 | 4.8 | 22.1 | -1.2 | 5 | J |
| 11 | 452 | 35.8 | 52 | J | 21.7 | 79 | 16 | 2.7 | 6.6 | 12.6 | 16 | J |
| 12 | 455 | 19.2 | 33 | J | 24.1 | 71 | 304 | 4.3 | 3.5 | 23.1 | 4 | J |
| 13 | 448 | 17.8 | 33 | J | 25.0 | 46 | 281 | 3.3 | -8.2 | 23.0 | 5 | J |
| 14 | 446 | 15.0 | 35 | J | 25.5 | 18 | 281 | 4.5 | -18.5 | 15.8 | 6 | J |
| 15 | 443 | 10.2 | 25 | J | 25.6 | 3 | 280 | 4.4 | -23.2 | 9.7 | 2 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 408 | 14.2 | 61 | J | 22.3 | -23 | 256 | -5.0 | -20.5 | -7.3 | 1 | J |
| 21 | 393 | 14.5 | 65 | J | 21.9 | -25 | 253 | -5.8 | -19.3 | -8.6 | 1 | J |
| 22 | 385 | 14.7 | 72 | J | 21.2 | -26 | 252 | -5.9 | -18.2 | -9.0 | 0 | J |
| 23 | 395 | 12.3 | 89 | J | 20.3 | -24 | 254 | -5.1 | -17.8 | -8.1 | 1 | J |
| 24 | 399 | 19.8 | 58 | J | 17.2 | -34 | 241 | -6.8 | -12.4 | -9.3 | 3 | J |

JUL. 24, 1983

205

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 406 | 16.8 | 33 | J | 16.4 | -39 | 233 | -7.6 | -10.4 | -9.8 | 3 | J |
| 2 | 410 | 14.1 | 24 | J | 15.4 | -47 | 228 | -7.0 | -8.5 | -10.6 | 2 | J |
| 3 | 404 | 15.6 | 41 | J | 14.5 | -48 | 210 | -8.2 | -5.8 | -9.9 | 3 | J |
| 4 | 409 | 17.6 | 47 | J | 13.4 | -47 | 197 | -8.6 | -4.1 | -9.1 | 3 | J |
| 5 | 413 | 17.8 | 94 | J | 11.7 | -41 | 178 | -8.1 | -1.2 | -6.9 | 5 | J |
| 6 | 408 | 12.9 | 155 | J | 11.6 | -25 | 139 | -7.8 | 5.3 | -6.4 | 2 | J |
| 7 | 408 | 12.2 | 168 | J | 12.1 | 4 | 115 | -4.9 | 10.2 | -2.4 | 3 | J |
| 8 | 410 | 10.9 | 179 | J | 12.1 | 5 | 104 | -2.9 | 11.1 | -3.0 | 2 | J |
| 9 | 414 | 8.1 | 117 | J | 13.6 | -5 | 111 | -4.3 | 10.0 | -5.3 | 6 | J |
| 10 | 408 | 9.6 | 104 | J | 12.9 | 14 | 111 | -4.0 | 10.6 | -1.7 | 6 | J |
| 11 | 402 | 20.9 | 124 | J | 10.5 | 50 | 135 | -4.4 | 7.0 | 4.8 | 4 | J |
| 12 | 405 | 20.1 | 120 | J | 17.1 | -4 | 132 | -10.6 | 10.2 | -6.0 | 6 | J |
| 13 | 412 | 21.4 | 166 | J | 15.2 | -46 | 126 | -5.8 | 3.1 | -12.5 | 6 | J |
| 14 | 420 | 14.6 | 162 | J | 18.2 | 48 | 83 | 1.4 | 15.1 | 7.3 | 7 | J |
| 15 | 447 | 11.2 | 150 | J | 14.6 | 3 | 120 | -5.0 | 8.4 | -2.5 | 11 | J |
| 16 | 467 | 11.6 | 195 | J | 13.9 | 3 | 111 | -4.9 | 12.3 | -3.0 | 3 | J |
| 17 | 487 | 9.8 | 109 | J | 14.3 | -2 | 140 | -10.6 | 8.5 | -2.6 | 4 | J |
| 18 | 466 | 10.2 | 137 | J | 13.2 | -1 | 138 | -8.9 | 7.9 | -1.6 | 5 | J |
| 19 | 505 | 10.1 | 171 | J | 13.5 | -25 | 163 | -10.1 | 2.4 | -5.2 | 7 | J |
| 20 | 544 | 13.1 | 286 | J | 12.7 | 9 | 115 | -3.8 | 8.3 | 0.8 | 9 | J |
| 21 | 563 | 13.0 | 229 | J | 12.4 | 22 | 74 | 3.0 | 10.5 | 3.9 | 4 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 541 | 6.9 | 101 | J | 6.5 | -26 | 170 | -5.8 | 1.0 | -2.9 | 0 | J |

JUL. 25, 1983

206

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 559 | 6.9 | 106 | J | 5.9 | -25 | 148 | -3.2 | 1.9 | -1.9 | 4 | J |
| 2 | 572 | 6.7 | 122 | J | 5.4 | -15 | 138 | -1.8 | 1.6 | -0.8 | 5 | J |
| 3 | 547 | 7.0 | 138 | J | 5.2 | -17 | 203 | -4.1 | -1.9 | -1.2 | 2 | J |
| 4 | 544 | 6.5 | 144 | J | 5.1 | 2 | 150 | -3.5 | 2.0 | -0.2 | 3 | J |
| 5 | 524 | 6.1 | 135 | J | 5.6 | 0 | 155 | -4.7 | 2.1 | -0.5 | 2 | J |
| 6 | 521 | 6.1 | 124 | J | 5.9 | 7 | 160 | -4.9 | 1.9 | 0.2 | 3 | J |
| 7 | 525 | 5.1 | 105 | J | 5.6 | -1 | 169 | -4.2 | 0.8 | -0.3 | 4 | J |
| 8 | 544 | 5.4 | 128 | J | 5.7 | -28 | 134 | -2.7 | 1.9 | -2.9 | 4 | J |
| 9 | 558 | 5.5 | 104 | J | 6.2 | 18 | 81 | 0.9 | 5.8 | -0.5 | 2 | J |
| 10 | 539 | 5.3 | 84 | J | 4.6 | 10 | 118 | -1.5 | 2.8 | -0.6 | 3 | J |
| 11 | 517 | 5.1 | 74 | J | 4.7 | -11 | 150 | -3.4 | 1.5 | -1.5 | 2 | J |
| 12 | 511 | 4.7 | 58 | J | 4.8 | 10 | 154 | -4.1 | 2.1 | -0.1 | 1 | J |
| 13 | 507 | 4.8 | 58 | J | 5.0 | 1 | 159 | -4.3 | 1.5 | -0.6 | 2 | J |
| 14 | | | | | 4.9 | 17 | 100 | -0.8 | 4.8 | -0.5 | 1 | J |
| 15 | 510 | 5.2 | 73 | J | 5.4 | -5 | 126 | -2.5 | 3.1 | -1.6 | 3 | J |
| 16 | 496 | 5.8 | 80 | J | 5.4 | -2 | 160 | -4.6 | 1.5 | -0.7 | 2 | J |
| 17 | 490 | 6.1 | 92 | J | 5.7 | 3 | 178 | -5.5 | 0.3 | 0.2 | 2 | J |
| 18 | 488 | 5.8 | 107 | J | 5.1 | 5 | 166 | -4.4 | 1.2 | 0.2 | 2 | J |
| 19 | 509 | 6.4 | 65 | J | 5.5 | 44 | 109 | -1.1 | 3.5 | 2.8 | 3 | J |
| 20 | 485 | 6.5 | 75 | J | 5.7 | 9 | 161 | -3.6 | 1.3 | 0.5 | 4 | J |
| 21 | 475 | 6.4 | 91 | J | 5.6 | -21 | 176 | -4.5 | 0.2 | -1.7 | 3 | J |
| 22 | 472 | 6.7 | 58 | J | 5.8 | -14 | 149 | -4.2 | 2.5 | -1.3 | 3 | J |
| 23 | 490 | 6.2 | 53 | J | 5.9 | 6 | 113 | -2.0 | 4.7 | 0.4 | 3 | J |
| 24 | 482 | 6.3 | 59 | J | 6.1 | 20 | 120 | -2.7 | 4.7 | 1.8 | 2 | J |

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07/26/83 – 08/07/83

JUL. 26, 1983 207

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 458 | 6.4 | 43 | J | 6.8 | 19 | 111 | -2.3 | 6.3 | 0.5 | 1 | J |
| 7 | 462 | 6.7 | 49 | J | 5.7 | 26 | 103 | -1.1 | 5.1 | 0.7 | 2 | J |
| 8 | 465 | 6.5 | 53 | J | 5.2 | 14 | 123 | -2.1 | 3.3 | -0.3 | 4 | J |
| 9 | | | | | 4.8 | 12 | 218 | -2.2 | -1.3 | 1.2 | 4 | J |
| 10 | 457 | 6.1 | 72 | J | 4.9 | -8 | 183 | -3.1 | -0.3 | -0.3 | 4 | J |
| 11 | 457 | 6.4 | 63 | J | 4.7 | -17 | 151 | -3.3 | 1.1 | -1.8 | 3 | J |
| 12 | 454 | 6.7 | 74 | J | 4.9 | 16 | 172 | -4.1 | 1.0 | 0.8 | 2 | J |
| 13 | 457 | 7.2 | 54 | J | 5.0 | 23 | 104 | -1.0 | 4.4 | -0.1 | 2 | J |
| 14 | | | | | | | | | | | | |
| 15 | 402 | 12.6 | 126 | J | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
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AUG. 1, 1983 213

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 379 | 7.3 | 40 | J | 3.9 | 34 | 127 | -1.6 | 2.6 | 1.2 | 2 | J |
| 6 | 379 | 7.4 | 34 | J | 4.6 | 6 | 106 | -0.9 | 3.0 | -0.6 | 3 | J |
| 7 | 368 | 7.8 | 38 | J | 4.4 | 0 | 177 | -3.8 | 0.2 | -0.1 | 2 | J |
| 8 | 369 | 7.3 | 36 | J | 4.2 | 11 | 168 | -3.6 | 1.0 | 0.4 | 2 | J |
| 9 | 382 | 7.2 | 28 | J | 4.0 | 14 | 80 | 0.6 | 3.6 | -0.7 | 2 | J |
| 10 | 378 | 7.8 | 28 | J | 4.1 | -2 | 93 | -0.2 | 2.6 | -1.4 | 3 | J |
| 11 | 371 | 7.6 | 25 | J | 4.4 | 21 | 129 | -2.0 | 2.8 | -0.0 | 3 | J |
| 12 | 359 | 8.0 | 29 | J | 4.8 | 15 | 128 | -2.5 | 3.3 | -0.5 | 2 | J |
| 13 | 362 | 7.6 | 24 | J | 5.1 | -7 | 125 | -2.6 | 3.0 | -2.1 | 2 | J |
| 14 | | | | | 4.2 | 10 | 158 | -2.4 | 1.1 | 0.0 | 4 | J |
| 15 | | | | | 4.3 | -3 | 146 | -3.1 | 1.8 | -1.0 | 2 | J |
| 16 | | | | | 5.1 | -9 | 154 | -4.0 | 1.6 | -1.3 | 2 | J |
| 17 | | | | | 4.9 | -11 | 142 | -3.5 | 2.4 | -1.6 | 2 | J |
| 18 | 365 | 13.8 | 15 | J | 5.1 | -15 | 140 | -3.4 | 2.5 | -1.8 | 2 | J |
| 19 | | | | | 5.1 | -14 | 137 | -3.1 | 2.6 | -1.5 | 3 | J |
| 20 | | | | | 4.9 | 50 | 98 | -0.4 | 3.0 | 2.9 | 3 | J |
| 21 | | | | | 4.8 | 5 | 137 | -3.1 | 2.9 | 0.1 | 2 | J |
| 22 | | | | | 4.8 | 22 | 128 | -2.3 | 3.0 | 1.3 | 3 | J |
| 23 | | | | | 5.7 | -46 | 255 | -1.0 | -3.9 | -3.7 | 1 | J |
| 24 | 383 | 11.0 | 46 | J | 5.1 | -40 | 253 | -1.0 | -3.6 | -2.7 | 2 | J |

AUG. 2, 1983 214

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 37.4 | 59 | J | | | | | | | | |
| 2 | 388 | 34.8 | 79 | J | | | | | | | | |
| 3 | 388 | 33.2 | 122 | J | | | | | | | | |
| 4 | 389 | 28.6 | 130 | J | | | | | | | | |
| 5 | 403 | 34.4 | 104 | J | | | | | | | | |
| 6 | 432 | 20.9 | 245 | J | | | | | | | | |
| 7 | 438 | 13.7 | 275 | J | | | | | | | | |
| 8 | 457 | 13.3 | 354 | J | | | | | | | | |
| 9 | 446 | 14.2 | 281 | J | | | | | | | | |
| 10 | 425 | 17.3 | 155 | J | | | | | | | | |
| 11 | 408 | 23.1 | 108 | J | | | | | | | | |
| 12 | 409 | 25.6 | 116 | J | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 415 | 21.1 | 83 | J | | | | | | | | |
| 15 | 418 | 22.9 | 99 | J | | | | | | | | |
| 16 | 425 | 23.6 | 144 | J | | | | | | | | |
| 17 | 446 | 18.9 | 114 | J | | | | | | | | |
| 18 | 453 | 14.3 | 107 | J | | | | | | | | |
| 19 | 463 | 13.0 | 95 | J | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 473 | 12.5 | 140 | J | | | | | | | | |
| 22 | 483 | 13.0 | 153 | J | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 3, 1983 215

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 500 | 10.3 | 128 | J | 9.9 | 30 | 337 | 7.6 | -2.6 | 5.1 | 3 | J |
| 3 | 507 | 10.4 | 194 | J | 8.4 | 18 | 327 | 5.3 | -3.1 | 2.6 | 5 | J |
| 4 | 530 | 10.3 | 205 | J | 8.2 | 45 | 337 | 3.1 | -0.6 | 3.6 | 7 | J |
| 5 | 542 | 10.7 | 203 | J | 8.7 | 8 | 319 | 2.2 | -1.7 | 0.9 | 8 | J |
| 6 | 573 | 8.4 | 134 | J | 8.6 | 46 | 202 | -5.2 | -0.2 | 6.2 | 3 | J |
| 7 | 574 | 8.0 | 172 | J | 7.6 | 41 | 225 | -3.8 | -1.9 | 5.7 | 3 | J |
| 8 | 549 | 8.0 | 197 | J | 5.3 | 22 | 302 | 2.5 | -2.9 | 3.3 | 2 | J |
| 9 | 556 | 8.0 | 151 | J | 5.7 | 6 | 232 | -2.9 | -3.2 | 2.1 | 3 | J |
| 10 | 545 | 7.5 | 143 | J | 4.8 | 41 | 267 | -0.1 | -1.3 | 3.2 | 3 | J |
| 11 | 515 | 8.8 | 105 | J | 6.4 | 33 | 318 | 3.2 | -1.3 | 3.9 | 4 | J |
| 12 | 506 | 9.3 | 100 | J | 7.4 | -10 | 329 | 5.7 | -3.6 | 0.6 | 3 | J |
| 13 | 519 | 12.4 | 203 | J | 7.0 | -5 | 322 | 4.6 | -3.4 | 1.2 | 4 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 570 | 10.8 | 261 | J | 8.4 | 16 | 258 | -1.3 | -5.2 | 3.8 | 5 | J |
| 17 | 574 | 8.1 | 207 | J | 7.6 | 2 | 269 | -0.1 | -6.2 | 2.1 | 4 | J |
| 18 | 592 | 9.3 | 279 | J | 7.0 | 2 | 266 | -0.2 | -2.8 | 0.8 | 7 | J |
| 19 | 583 | 10.6 | 229 | J | 8.6 | -2 | 283 | 1.4 | -6.1 | 0.9 | 6 | J |
| 20 | 577 | 10.0 | 225 | J | 8.6 | 15 | 280 | 1.2 | -6.7 | 2.8 | 4 | J |
| 21 | 610 | 7.5 | 286 | J | 8.5 | 14 | 277 | 0.9 | -7.1 | 2.6 | 4 | J |
| 22 | 624 | 7.0 | 235 | J | 9.0 | 14 | 288 | 1.8 | -5.3 | 1.8 | 7 | J |
| 23 | 643 | 5.6 | 129 | J | 7.5 | -15 | 317 | 3.2 | -3.1 | -1.0 | 6 | J |
| 24 | 660 | 4.2 | 137 | J | 6.4 | 35 | 280 | 0.9 | -4.6 | 3.9 | 2 | J |

AUG. 4, 1983 216

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 629 | 4.3 | 94 | J | 5.8 | -7 | 313 | 3.7 | -4.0 | -0.3 | 2 | J |
| 2 | 620 | 3.8 | 69 | J | 5.9 | -8 | 329 | 4.9 | -3.0 | -0.4 | 1 | J |
| 3 | 612 | 3.4 | 116 | J | 5.6 | -2 | 320 | 4.2 | -3.5 | 0.4 | 1 | J |
| 4 | 609 | 3.5 | 156 | J | 5.5 | -1 | 334 | 3.0 | -4.3 | 0.9 | 1 | J |
| 5 | 594 | 3.0 | 125 | J | 5.4 | 3 | 308 | 3.2 | -3.9 | 1.3 | 1 | J |
| 6 | 601 | 3.3 | 100 | J | 4.9 | 10 | 288 | 1.4 | -3.8 | 2.1 | 2 | J |
| 7 | 569 | 2.9 | 80 | J | 4.7 | -21 | 315 | 2.8 | -3.1 | -0.4 | 2 | J |
| 8 | 567 | 2.8 | 71 | J | 4.4 | -4 | 308 | 2.5 | -3.1 | 1.0 | 1 | J |
| 9 | 553 | 2.5 | 66 | J | 4.1 | -10 | 291 | 1.4 | -3.5 | 1.0 | 1 | J |
| 10 | 560 | 2.7 | 67 | J | 3.7 | 37 | 265 | -0.2 | -1.5 | 3.1 | 1 | J |
| 11 | 534 | 3.2 | 93 | J | 4.1 | 15 | 294 | 1.5 | -2.4 | 2.4 | 2 | J |
| 12 | 522 | 2.9 | 57 | J | 4.2 | -5 | 299 | 1.8 | -3.0 | 1.2 | 2 | J |
| 13 | 521 | 3.2 | 65 | J | 4.2 | -5 | 281 | 0.7 | -3.5 | 1.4 | 2 | J |
| 14 | 498 | 3.1 | 76 | L | 4.2 | -11 | 284 | 0.9 | -3.6 | 0.9 | 2 | J |
| 15 | 495 | 3.3 | 73 | L | 4.1 | -3 | 286 | 0.9 | -2.9 | 1.1 | 2 | J |
| 16 | 506 | 2.9 | 43 | J | 4.2 | -10 | 292 | 1.5 | -3.7 | 0.6 | 1 | J |
| 17 | 494 | 2.7 | 41 | J | 4.3 | 19 | 283 | 0.8 | -3.0 | 2.2 | 2 | J |
| 18 | 494 | 2.6 | 42 | J | 4.4 | 23 | 297 | 1.7 | -2.9 | 2.4 | 1 | J |
| 19 | 473 | 4.0 | 48 | J | 4.6 | 36 | 311 | 2.3 | -2.2 | 3.0 | 1 | J |
| 20 | 473 | 4.2 | 46 | J | 4.6 | -10 | 270 | -0.0 | -4.4 | -0.2 | 1 | J |
| 21 | 483 | 3.6 | 37 | J | 4.6 | -22 | 261 | -0.7 | -4.4 | -1.3 | 0 | J |
| 22 | 458 | 4.6 | 32 | J | 4.3 | -10 | 263 | -0.5 | -4.3 | -0.4 | 1 | J |
| 23 | 454 | 4.8 | 31 | J | 4.1 | -18 | 260 | -0.6 | -3.6 | -0.9 | 1 | J |
| 24 | 439 | 3.6 | 24 | J | 4.1 | -12 | 290 | 1.3 | -3.6 | -0.5 | 1 | J |

AUG. 5, 1983 217

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 439 | 4.4 | 29 | J | 3.9 | 33 | 310 | 1.8 | -1.9 | 2.0 | 2 | J |
| 2 | 428 | 4.0 | 40 | J | 3.9 | 9 | 320 | 3.0 | -2.4 | 0.9 | 1 | J |
| 3 | 416 | 4.2 | 31 | J | 3.9 | 8 | 336 | 3.4 | -1.4 | 0.8 | 1 | J |
| 4 | 413 | 4.0 | 27 | J | 4.0 | 7 | 337 | 3.6 | -1.4 | 0.8 | 1 | J |
| 5 | 413 | 4.5 | 28 | J | 3.8 | 4 | 337 | 3.4 | -1.3 | 0.6 | 1 | J |
| 6 | 416 | 5.8 | 30 | J | 3.5 | 23 | 331 | 2.7 | -1.0 | 1.7 | 1 | J |
| 7 | 410 | 4.6 | 24 | J | 3.7 | 10 | 342 | 3.5 | -0.8 | 1.0 | 1 | J |
| 8 | 399 | 3.8 | 20 | J | 4.2 | 0 | 346 | 3.8 | -0.9 | 0.4 | 1 | J |
| 9 | 403 | 4.4 | 27 | J | 4.0 | -3 | 352 | 3.7 | -0.5 | 0.1 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 396 | 4.7 | 19 | J | 3.7 | 9 | 226 | -2.5 | -2.1 | 1.6 | 1 | J |
| 15 | 397 | 4.8 | 23 | J | 3.8 | 18 | 225 | -2.4 | -1.7 | 1.9 | 1 | J |
| 16 | 395 | 4.8 | 23 | J | 3.5 | 23 | 205 | -2.8 | -0.7 | 1.7 | 1 | J |
| 17 | 395 | 5.5 | 22 | J | 3.5 | 42 | 228 | -1.7 | -1.1 | 2.7 | 1 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 377 | 13.2 | 26 | J | 4.1 | 28 | 333 | 2.9 | -1.3 | 1.9 | 2 | J |
| 24 | 382 | 13.7 | 25 | J | 4.3 | 25 | 315 | 2.3 | -2.2 | 1.7 | 2 | J |

AUG. 6, 1983 218

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 377 | 14.5 | 26 | J | 4.8 | 16 | 308 | 2.8 | -3.4 | 1.7 | 1 | J |
| 2 | 377 | 15.2 | 21 | J | 4.6 | 18 | 305 | 2.5 | -3.3 | 1.9 | 1 | J |
| 3 | 381 | 13.6 | 24 | J | 5.6 | 24 | 290 | 1.7 | -4.1 | 2.9 | 2 | J |
| 4 | 380 | 10.7 | 23 | J | 6.7 | 28 | 294 | 2.4 | -4.5 | 4.2 | 1 | J |
| 5 | 376 | 13.7 | 20 | J | 6.9 | 13 | 293 | 2.6 | -5.4 | 3.1 | 2 | J |
| 6 | | | | | 7.3 | 48 | 287 | 1.4 | -2.6 | 6.6 | 2 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 370 | 8.3 | 20 | J | 9.2 | 82 | 121 | -0.6 | 5.1 | 7.4 | 1 | J |
| 11 | 370 | 8.3 | 19 | J | 9.6 | 76 | 127 | -1.4 | 6.0 | 7.2 | 1 | J |
| 12 | 358 | 6.2 | 19 | J | 8.6 | 73 | 98 | -0.3 | 6.0 | 6.0 | 1 | J |
| 13 | 359 | 6.6 | 18 | J | 8.7 | 76 | 79 | 0.4 | 5.6 | 6.3 | 2 | J |
| 14 | 367 | 11.5 | 22 | J | 8.8 | 6 | 297 | 2.3 | -3.7 | 2.4 | 7 | J |
| 15 | 370 | 12.8 | 24 | J | 8.2 | -26 | 306 | 4.3 | -6.8 | -0.9 | 1 | J |
| 16 | 363 | 12.6 | 26 | J | 8.0 | -19 | 287 | 2.1 | -7.4 | 0.1 | 2 | J |
| 17 | 364 | 11.1 | 22 | J | 8.0 | -24 | 293 | 2.8 | -7.3 | -1.1 | 1 | J |
| 18 | 357 | 12.0 | 28 | J | 7.8 | -5 | 287 | 2.2 | -7.0 | 1.1 | 2 | J |
| 19 | 354 | 11.3 | 26 | J | 7.4 | 7 | 264 | -0.7 | -6.8 | 2.2 | 2 | J |
| 20 | 362 | 13.0 | 25 | J | 8.7 | -6 | 268 | -0.3 | -8.4 | 0.4 | 2 | J |
| 21 | 365 | 13.5 | 28 | J | 9.3 | -8 | 268 | -0.3 | -9.2 | -0.2 | 1 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 7, 1983 219

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 342 | 9.0 | 24 | J | 8.9 | 10 | 285 | 2.1 | -7.6 | 2.3 | 3 | J |
| 2 | 340 | 9.5 | 22 | J | 9.1 | 3 | 284 | 2.2 | -8.6 | 1.7 | 1 | J |
| 3 | 341 | 9.4 | 23 | J | 8.9 | 4 | 283 | 2.0 | -8.4 | 2.2 | 1 | J |
| 4 | 339 | 10.4 | 18 | J | 8.7 | 3 | 282 | 1.8 | -8.2 | 2.4 | 1 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 360 | 7.6 | 16 | J | 9.7 | 1 | 281 | 1.8 | -8.7 | 3.7 | 1 | J |
| 8 | 355 | 7.5 | 18 | J | 9.9 | -1 | 278 | 1.4 | -8.9 | 3.9 | 1 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 330 | 11.4 | 20 | J | | | | | | | | |
| 14 | 324 | 11.3 | 32 | L | | | | | | | | |
| 15 | 310 | 12.8 | 21 | L | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 311 | 9.6 | 29 | L | | | | | | | | |
| 18 | 313 | 9.6 | 30 | L | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 13, 1983 225

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 545 | 5.4 | 120 | J | 6.7 | -48 | 320 | 2.7 | -3.0 | -3.5 | 4 | J |
| 21 | | | | | 6.8 | -22 | 339 | 5.9 | -2.6 | -2.2 | 1 | J |
| 22 | | | | | 6.2 | -38 | 309 | 2.4 | -3.4 | -2.6 | 4 | J |
| 23 | | | | | 6.3 | 12 | 338 | 5.0 | -1.9 | 1.4 | 3 | J |
| 24 | 540 | 2.8 | 55 | J | 6.6 | 34 | 298 | 2.3 | -3.8 | 3.7 | 3 | J |

AUG. 14, 1983 226

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 523 | 5.8 | 70 | J | 6.2 | -5 | 286 | 1.2 | -4.3 | 0.2 | 4 | J |
| 2 | 543 | 5.9 | 74 | J | 6.2 | -12 | 265 | -0.4 | -4.4 | -0.2 | 4 | J |
| 3 | 522 | 6.3 | 67 | J | 6.5 | 16 | 281 | 1.1 | -5.1 | 2.8 | 3 | J |
| 4 | 516 | 6.4 | 63 | J | 6.6 | 4 | 292 | 2.2 | -5.2 | 1.8 | 3 | J |
| 5 | 516 | 6.2 | 57 | J | 6.9 | -8 | 279 | 1.0 | -6.5 | 1.1 | 2 | J |
| 6 | 505 | 5.9 | 61 | J | 6.8 | -26 | 294 | 2.2 | -5.6 | -0.7 | 3 | J |
| 7 | 492 | 6.1 | 71 | J | 6.9 | -5 | 310 | 4.0 | -4.6 | 1.4 | 3 | J |
| 8 | 498 | 6.5 | 105 | J | 5.5 | -3 | 331 | 4.0 | -2.1 | 0.8 | 3 | J |
| 9 | 514 | 6.9 | 120 | J | 5.6 | 20 | 317 | 2.8 | -1.6 | 2.5 | 4 | J |
| 10 | 518 | 7.1 | 118 | J | 6.3 | -8 | 286 | 1.3 | -4.3 | 1.7 | 4 | J |
| 11 | 526 | 7.1 | 111 | J | 6.2 | 21 | 271 | 0.1 | -3.6 | 4.5 | 2 | J |
| 12 | | | | | 6.1 | -5 | 310 | 3.4 | -3.7 | 1.7 | 3 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | 7.1 | -1 | 277 | 0.8 | -5.8 | 2.9 | 3 | J |
| 15 | | | | | 7.4 | -6 | 291 | 2.5 | -6.3 | 2.2 | 2 | J |
| 16 | 491 | 7.4 | 111 | J | 6.1 | -23 | 31 | 4.3 | 1.5 | -2.9 | 3 | J |
| 17 | 493 | 7.0 | 108 | J | 6.5 | 10 | 35 | 4.6 | 3.4 | -0.1 | 3 | J |
| 18 | 491 | 6.4 | 98 | J | 5.9 | -11 | 18 | 3.6 | 0.9 | -1.0 | 4 | J |
| 19 | 485 | 6.0 | 108 | J | 6.2 | -14 | 316 | 3.7 | -3.8 | -0.4 | 3 | J |
| 20 | 530 | 5.7 | 99 | J | 6.5 | 8 | 279 | 0.8 | -4.7 | 1.6 | 4 | J |
| 21 | 497 | 5.3 | 81 | J | 6.7 | -5 | 301 | 3.1 | -5.2 | 0.3 | 3 | J |
| 22 | 507 | 5.6 | 80 | J | 6.6 | 5 | 326 | 5.0 | -3.2 | 1.0 | 3 | J |
| 23 | 517 | 5.2 | 78 | J | 6.3 | 30 | 10 | 4.8 | 1.2 | 2.7 | 3 | J |
| 24 | 510 | 5.6 | 83 | J | 6.5 | 3 | 336 | 4.4 | -1.9 | 0.5 | 4 | J |

AUG. 15, 1983 227

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 511 | 5.3 | 78 | J | 6.6 | 1 | 301 | 3.0 | -5.0 | 0.9 | 3 | J |
| 2 | 519 | 5.4 | 94 | J | 6.4 | -50 | 318 | 2.5 | -2.9 | -3.5 | 4 | J |
| 3 | 505 | 5.0 | 88 | J | 6.2 | 0 | 339 | 4.2 | -1.6 | 0.4 | 4 | J |
| 4 | 501 | 5.0 | 89 | J | 6.3 | 3 | 315 | 3.8 | -3.6 | 1.3 | 3 | J |
| 5 | 502 | 4.6 | 92 | J | 6.1 | -4 | 312 | 3.6 | -3.9 | 0.9 | 3 | J |
| 6 | 503 | 4.6 | 115 | J | 5.7 | 11 | 320 | 2.9 | -2.0 | 1.6 | 4 | J |
| 7 | 515 | 5.1 | 132 | J | 5.1 | -5 | 312 | 2.1 | -2.2 | 0.7 | 4 | J |
| 8 | 499 | 5.2 | 147 | J | 5.2 | 27 | 3 | 3.8 | 1.1 | 1.7 | 3 | J |
| 9 | 513 | 4.9 | 121 | J | 5.2 | 41 | 310 | 1.6 | -0.7 | 2.9 | 4 | J |
| 10 | 517 | 5.0 | 120 | J | 5.3 | -38 | 299 | 0.8 | -2.0 | -0.4 | 5 | J |
| 11 | 507 | 5.1 | 108 | J | 6.0 | -40 | 291 | 1.4 | -4.8 | -1.0 | 3 | J |
| 12 | 504 | 5.2 | 131 | J | 5.8 | -4 | 299 | 2.3 | -3.7 | 1.8 | 3 | J |
| 13 | 479 | 4.2 | 66 | J | 5.1 | 21 | 341 | 3.8 | -0.4 | 2.0 | 3 | J |
| 14 | 523 | 4.0 | 92 | J | 5.1 | 45 | 270 | -0.0 | -1.2 | 4.1 | 3 | J |
| 15 | 501 | 4.0 | 92 | J | 5.4 | -61 | 295 | 0.9 | -3.3 | -2.4 | 3 | J |
| 16 | 483 | 4.3 | 98 | J | 5.6 | -34 | 312 | 2.3 | -3.3 | -1.2 | 4 | J |
| 17 | 477 | 3.8 | 81 | J | 5.5 | -66 | 335 | 1.8 | -2.3 | -3.9 | 2 | J |
| 18 | 470 | 3.3 | 59 | J | 6.1 | 14 | 321 | 4.2 | -2.9 | 2.3 | 2 | J |
| 19 | 458 | 4.1 | 55 | J | 5.2 | -9 | 345 | 3.1 | -0.9 | -0.3 | 4 | J |
| 20 | 454 | 2.9 | 35 | J | 5.4 | -5 | 327 | 4.4 | -2.9 | 0.1 | 1 | J |
| 21 | 454 | 3.3 | 98 | L | 5.9 | -14 | 326 | 4.7 | -3.4 | -0.9 | 1 | J |
| 22 | 452 | 3.8 | 65 | J | 5.5 | -21 | 332 | 4.3 | -2.5 | -1.5 | 2 | J |
| 23 | | | | | | | | | | | | |
| 24 | 450 | 3.7 | 83 | J | 5.9 | -2 | 334 | 5.1 | -2.5 | 0.1 | 1 | J |

AUG. 16, 1983 228

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 454 | 2.8 | 57 | J | 6.0 | -7 | 336 | 5.3 | -2.5 | -0.3 | 1 | J |
| 2 | 466 | 3.1 | 49 | J | 5.7 | -1 | 339 | 5.1 | -2.0 | 0.3 | 1 | J |
| 3 | 466 | 2.9 | 60 | J | 5.9 | 4 | 336 | 5.2 | -2.2 | 0.9 | 2 | J |
| 4 | 458 | 3.1 | 47 | J | 5.6 | 6 | 355 | 5.3 | -0.3 | 0.7 | 2 | J |
| 5 | 453 | 2.9 | 48 | J | 5.6 | 6 | 345 | 5.1 | -1.1 | 1.0 | 1 | J |
| 6 | 449 | 3.1 | 42 | J | 6.5 | 13 | 344 | 5.9 | -1.1 | 1.9 | 1 | J |
| 7 | 439 | 3.1 | 45 | J | 6.7 | 11 | 337 | 5.9 | -1.8 | 2.2 | 1 | J |
| 8 | 438 | 3.5 | 61 | J | 6.5 | 10 | 329 | 5.4 | -2.4 | 2.5 | 1 | J |
| 9 | 433 | 3.5 | 70 | J | 6.3 | 4 | 330 | 5.4 | -2.5 | 1.9 | 1 | J |
| 10 | 435 | 3.6 | 60 | J | 6.3 | 6 | 328 | 5.2 | -2.5 | 2.2 | 1 | J |
| 11 | 437 | 4.1 | 81 | J | 5.8 | -9 | 313 | 3.8 | -3.9 | 1.3 | 1 | J |
| 12 | 427 | 4.1 | 52 | J | 5.7 | 6 | 314 | 3.8 | -3.1 | 2.5 | 1 | J |
| 13 | 427 | 4.2 | 49 | J | 5.8 | -7 | 323 | 4.2 | -3.1 | 1.0 | 2 | J |
| 14 | 420 | 4.1 | 43 | J | 5.6 | -24 | 351 | 4.5 | -1.6 | -1.4 | 3 | J |
| 15 | 416 | 3.8 | 39 | J | 5.2 | -29 | 9 | 4.4 | -0.5 | -2.5 | 1 | J |
| 16 | 421 | 3.6 | 35 | J | 5.3 | -28 | 4 | 4.4 | -0.6 | -2.3 | 2 | J |
| 17 | 414 | 3.4 | 33 | J | 5.3 | -17 | 343 | 4.8 | -1.9 | -0.9 | 0 | J |
| 18 | 404 | 5.8 | 104 | J | 4.2 | -18 | 347 | 3.8 | -1.2 | -1.0 | 1 | J |
| 19 | 383 | 5.6 | 39 | J | 5.1 | -19 | 337 | 4.3 | -2.1 | -1.1 | 1 | J |
| 20 | 394 | 5.4 | 39 | J | 4.2 | -21 | 321 | 2.0 | -1.8 | -0.7 | 3 | J |
| 21 | 414 | 6.2 | 29 | J | 5.0 | -27 | 271 | 0.1 | -4.5 | -1.4 | 2 | J |
| 22 | 409 | 6.7 | 24 | J | 5.6 | -24 | 270 | -0.0 | -5.4 | -1.5 | 1 | J |
| 23 | 407 | 6.5 | 34 | J | 5.9 | -24 | 278 | 0.7 | -5.5 | -1.6 | 1 | J |
| 24 | 392 | 7.7 | 56 | J | 5.9 | -27 | 301 | 2.6 | -4.7 | -2.0 | 2 | J |

AUG. 17, 1983 229

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 401 | 7.0 | 33 | J | 6.2 | -29 | 271 | 0.1 | -5.6 | -2.0 | 2 | J |
| 2 | 395 | 7.5 | 32 | J | 6.9 | -24 | 270 | -0.0 | -6.5 | -1.5 | 2 | J |
| 3 | 382 | 8.3 | 30 | J | 6.7 | -34 | 288 | 1.7 | -5.8 | -2.4 | 2 | J |
| 4 | 389 | 8.2 | 36 | J | 6.6 | -25 | 260 | -1.0 | -6.0 | -1.0 | 2 | J |
| 5 | 400 | 9.5 | 46 | J | 6.0 | -32 | 243 | -2.2 | -5.0 | -1.5 | 2 | J |
| 6 | 396 | 9.2 | 39 | J | 6.5 | -11 | 251 | -1.9 | -5.7 | 1.0 | 2 | J |
| 7 | | | | | | | | | | | | |
| 8 | 371 | 9.1 | 36 | J | 6.5 | -15 | 308 | 3.4 | -4.6 | 0.7 | 3 | J |
| 9 | 364 | 9.5 | 54 | J | 6.4 | -9 | 327 | 5.0 | -3.3 | 0.7 | 2 | J |
| 10 | 376 | 10.1 | 48 | J | 6.7 | -16 | 303 | 3.0 | -4.8 | 1.0 | 3 | J |
| 11 | 368 | 9.9 | 49 | J | 6.9 | -6 | 306 | 3.3 | -4.2 | 1.9 | 4 | J |
| 12 | 373 | 9.5 | 57 | J | 6.4 | 14 | 314 | 3.8 | -2.6 | 3.2 | 3 | J |
| 13 | 374 | 7.6 | 62 | J | 6.3 | 32 | 356 | 4.8 | 1.2 | 2.8 | 3 | J |
| 14 | 365 | 6.5 | 48 | J | 6.7 | 12 | 350 | 5.8 | -0.3 | 1.6 | 3 | J |
| 15 | 370 | 7.4 | 72 | J | 6.6 | -5 | 313 | 4.0 | -4.1 | 1.4 | 3 | J |
| 16 | 390 | 6.9 | 69 | J | 7.1 | 61 | 324 | 2.5 | 0.6 | 6.0 | 3 | J |
| 17 | 393 | 6.8 | 67 | J | 7.1 | 15 | 281 | 1.1 | -5.0 | 3.5 | 3 | J |
| 18 | 381 | 5.4 | 56 | J | 6.8 | 38 | 333 | 3.9 | -0.9 | 3.9 | 4 | J |
| 19 | 378 | 4.4 | 45 | J | 6.6 | 33 | 347 | 4.5 | -0.3 | 3.2 | 4 | J |
| 20 | 397 | 4.0 | 81 | J | 5.8 | 9 | 305 | 3.2 | -4.3 | 1.8 | 2 | J |
| 21 | | | | | | | | | | | | |
| 22 | 367 | 4.6 | 58 | J | 6.1 | 7 | 317 | 4.4 | -4.0 | 1.3 | 0 | J |
| 23 | 377 | 4.5 | 49 | J | 6.1 | 7 | 306 | 3.5 | -4.7 | 1.4 | 1 | J |
| 24 | 379 | 4.8 | 35 | J | 6.6 | 19 | 297 | 2.7 | -5.0 | 2.8 | 2 | J |

AUG. 18, 1983 230

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 380 | 5.9 | 37 | J | 6.3 | 11 | 294 | 2.4 | -5.1 | 2.0 | 2 | J |
| 2 | 370 | 6.4 | 34 | J | 6.3 | 8 | 297 | 2.7 | -5.1 | 1.9 | 1 | J |
| 3 | 374 | 6.7 | 31 | J | 6.2 | 4 | 292 | 2.2 | -5.2 | 1.7 | 2 | J |
| 4 | 368 | 5.7 | 26 | J | 6.6 | 9 | 298 | 3.1 | -5.2 | 2.6 | 0 | J |
| 5 | 357 | 4.4 | 20 | J | 6.6 | 9 | 300 | 3.3 | -5.0 | 2.8 | 1 | J |
| 6 | 367 | 5.1 | 25 | J | 6.5 | 5 | 296 | 2.8 | -5.1 | 2.7 | 1 | J |
| 7 | 367 | 5.4 | 29 | J | 6.2 | 9 | 306 | 3.5 | -4.0 | 2.9 | 1 | J |
| 8 | 363 | 5.9 | 28 | J | 5.5 | -13 | 293 | 2.0 | -4.8 | 1.1 | 1 | J |
| 9 | 363 | 6.1 | 29 | J | 5.4 | -5 | 297 | 2.4 | -4.2 | 1.9 | 1 | J |
| 10 | 355 | 6.2 | 45 | J | 5.6 | 1 | 320 | 4.2 | -3.0 | 1.9 | 1 | J |
| 11 | 356 | 6.2 | 30 | J | 5.7 | -5 | 312 | 3.7 | -3.8 | 1.7 | 1 | J |
| 12 | 355 | 6.5 | 27 | J | 5.6 | -9 | 310 | 3.5 | -4.0 | 1.4 | 1 | J |
| 13 | 345 | 7.1 | 49 | J | 5.6 | -7 | 329 | 4.7 | -2.8 | 0.8 | 1 | J |
| 14 | 348 | 7.4 | 52 | J | 5.6 | 5 | 324 | 4.4 | -2.6 | 2.0 | 1 | J |
| 15 | 344 | 7.3 | 36 | J | 5.7 | 4 | 328 | 4.6 | -2.4 | 1.6 | 2 | J |
| 16 | 337 | 7.5 | 17 | J | 5.8 | 6 | 335 | 5.1 | -2.0 | 1.5 | 1 | J |
| 17 | 337 | 7.4 | 16 | J | 5.8 | 11 | 338 | 5.3 | -1.6 | 1.8 | 0 | J |
| 18 | 339 | 7.8 | 21 | J | 5.6 | 6 | 323 | 4.4 | -3.0 | 1.5 | 1 | J |
| 19 | 335 | 8.1 | 15 | J | 5.9 | 14 | 336 | 5.2 | -1.9 | 2.0 | 1 | J |
| 20 | 333 | 7.8 | 15 | J | 6.1 | 18 | 342 | 5.5 | -1.4 | 2.2 | 0 | J |
| 21 | 335 | 8.5 | 14 | J | 6.2 | 3 | 330 | 5.3 | -2.9 | 0.8 | 1 | J |
| 22 | 335 | 8.7 | 14 | J | 6.0 | 10 | 328 | 4.9 | -2.9 | 1.5 | 1 | J |
| 23 | 340 | 8.0 | 19 | J | 5.8 | -4 | 323 | 4.0 | -3.0 | 0.1 | 3 | J |
| 24 | 331 | 7.6 | 15 | J | 5.9 | 23 | 351 | 5.3 | -0.5 | 2.4 | 1 | J |

AUG. 19, 1983 231

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 332 | 7.4 | 15 | J | 6.0 | 9 | 341 | 5.5 | -1.7 | 1.2 | 1 | J |
| 2 | 331 | 7.4 | 15 | J | 6.0 | 0 | 333 | 5.3 | -2.7 | 0.5 | 1 | J |
| 3 | 336 | 8.1 | 15 | J | 5.9 | 3 | 305 | 3.3 | -4.5 | 1.4 | 1 | J |
| 4 | 329 | 7.6 | 15 | J | 5.9 | 8 | 316 | 4.1 | -3.6 | 1.9 | 1 | J |
| 5 | 324 | 6.8 | 13 | J | 6.1 | -2 | 324 | 4.9 | -3.4 | 1.0 | 1 | J |
| 6 | 319 | 7.5 | 15 | J | 6.2 | 7 | 334 | 5.5 | -2.2 | 1.7 | 1 | J |
| 7 | 336 | 10.9 | 14 | J | 6.4 | 9 | 308 | 3.8 | -4.0 | 3.0 | 1 | J |
| 8 | 339 | 12.0 | 16 | J | 6.4 | 14 | 312 | 4.1 | -3.3 | 3.4 | 1 | J |
| 9 | 355 | 13.5 | 24 | J | 6.5 | 22 | 320 | 4.6 | -2.2 | 4.0 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 380 | 23.2 | 75 | J | 10.0 | 56 | 1 | 5.4 | 2.9 | 7.5 | 3 | J |
| 18 | 384 | 24.4 | 86 | J | 8.9 | 52 | 16 | 4.9 | 3.3 | 5.8 | 3 | J |
| 19 | 383 | 23.3 | 78 | J | 9.7 | 51 | 52 | 3.6 | 6.2 | 5.8 | 3 | J |
| 20 | 384 | 24.3 | 75 | J | 10.1 | 53 | 29 | 4.9 | 4.2 | 6.8 | 4 | J |
| 21 | 385 | 12.3 | 78 | J | 12.3 | 24 | 102 | -2.0 | 9.8 | 2.6 | 7 | J |
| 22 | 380 | 13.8 | 148 | J | 9.0 | -5 | 115 | -3.6 | 7.5 | -1.9 | 3 | J |
| 23 | 376 | 12.3 | 148 | J | 8.9 | 25 | 113 | -3.0 | 7.5 | 2.5 | 2 | J |
| 24 | 373 | 10.4 | 119 | J | 7.3 | 65 | 280 | 0.5 | -1.9 | 6.7 | 2 | J |

AUG. 20, 1983 232

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 367 | 13.0 | 144 | J | 5.4 | 75 | 137 | -0.9 | 1.5 | 4.2 | 3 | J |
| 2 | 399 | 8.3 | 157 | J | 8.9 | 4 | 142 | -6.8 | 5.3 | -0.5 | 3 | J |
| 3 | 437 | 7.6 | 223 | J | 10.5 | -13 | 165 | -9.7 | 2.0 | -2.9 | 2 | J |
| 4 | 427 | 7.6 | 162 | J | 10.9 | -25 | 174 | -9.6 | -0.3 | -4.6 | 2 | J |
| 5 | 405 | 6.3 | 122 | J | 8.7 | 12 | 213 | -4.6 | -2.4 | 2.1 | 7 | J |
| 6 | 425 | 5.4 | 137 | J | 9.6 | -17 | 192 | -8.5 | -2.7 | -1.8 | 3 | J |
| 7 | 426 | 4.9 | 99 | J | 9.6 | -19 | 195 | -8.4 | -3.3 | -1.8 | 2 | J |
| 8 | 439 | 5.6 | 79 | J | 8.7 | -10 | 274 | 0.5 | -6.6 | 2.1 | 5 | J |
| 9 | 406 | 5.4 | 99 | J | 7.5 | -13 | 205 | -6.0 | -3.2 | 0.1 | 3 | J |
| 10 | 407 | 4.9 | 66 | J | 7.7 | -8 | 178 | -7.3 | -0.3 | -1.0 | 2 | J |
| 11 | 433 | 5.7 | 92 | J | 8.0 | 1 | 142 | -6.0 | 4.0 | -2.3 | 2 | J |
| 12 | | | | | | | | | | | | |
| 13 | 450 | 4.9 | 62 | J | 8.6 | -8 | 155 | -7.6 | 2.5 | -2.8 | 1 | J |
| 14 | 445 | 6.2 | 101 | J | 8.8 | -15 | 210 | -6.3 | -4.1 | 0.1 | 5 | J |
| 15 | 444 | 5.7 | 80 | J | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
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HR     VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000  SC  MAGN LAT LON                      SC

                         AUG. 26, 1983                    238

 1
 2
 3     606  6.9 241  J
 4     589  6.3 218  J   6.4  36 151  -3.8   2.9   2.3  3  J
 5     601  6.2 191  J   6.7   6 123  -2.4   3.6  -0.9  5  J
 6
 7
 8
 9
10                       6.3  13  94  -0.4   5.4  -1.9  3  J
11     605  5.0 235  J   6.8 -15 111  -1.9   3.5  -3.9  4  J
12     605  4.9 168  J   6.3   9 104  -1.3   4.7  -2.0  3  J
13     579  5.0 137  J   6.1  11 133  -3.6   3.8  -1.2  3  J
14     564  5.1  90  J   5.9  -1 153  -4.5   1.9  -1.2  3  J
15     571  4.9  88  J   5.7 -18 151  -4.2   1.3  -2.4  2  J
16     569  4.5  84  J   6.1 -32 156  -4.0   0.5  -3.3  3  J
17     562  4.3  79  J   5.4  -6 170  -4.2   0.5  -0.7  3  J
18     568  4.2  80  J   5.0  42 190  -3.1   0.4   2.9  3  J
19     578  4.0  86  J   5.0  -6 114  -1.7   3.6  -1.5  2  J
20     574  3.9  94  J   4.6 -24 123  -1.6   2.1  -1.8  3  J
21     588  4.1 112  J   4.3  70 150  -0.9   1.1   2.8  3  J
22     578  3.9  96  J   4.4  45 122  -1.3   2.5   2.1  3  J
23     577  3.6  79  J   4.7  15  87   0.2   4.5   0.4  1  J
24     569  3.5  71  J   4.7  12 100  -0.7   4.0   0.2  2  J

                         AUG. 28, 1983                    240

 1     430  3.4  61  J   4.3 -16 136  -2.4   2.0  -1.4  2  J
 2                       4.6 -19 120  -2.0   3.0  -2.1  2  J
 3
 4     416  3.5  33  J   3.5  -2 177  -3.4   0.1  -0.2  1  J
 5     424  3.8  42  J   4.0   4 161  -3.4   1.2  -0.2  2  J
 6     444  4.7  37  J   3.9  -9 111  -1.1   2.3  -1.5  2  J
 7     440  5.1  45  J   4.2   2  82   0.5   3.4  -1.6  2  J
 8     429  5.2  48  J   4.8 -33 112  -1.4   1.9  -3.9  2  J
 9     419  4.8  34  J   4.8 -24 113  -1.6   2.2  -3.4  2  J
10     413  4.9  34  J   4.8 -13 126  -2.6   2.5  -2.8  1  J
11     403  5.2  41  J   4.9 -11 149  -3.7   1.4  -1.9  2  J
12     410  8.0  41  J
13     409  8.1  33  J   2.9   5 178  -2.8   0.2   0.2  1  J
14     404  8.9  48  J   3.1   4 183  -2.9  -0.0   0.3  1  J
15     408 10.6  51  J   2.6 -20 177  -2.3  -0.3  -0.8  1  J
16     410 11.0  47  J   2.2 -19 173  -1.7  -0.1  -0.6  2  J
17     407 11.3  44  J   1.9 -31 136  -1.1   0.6  -1.3  1  J
18     398  9.8  59  J   3.0 -29 142  -1.9   1.0  -1.8  1  J
19     401 10.1  57  J   2.6 -38 103  -0.4   1.2  -1.7  2  J
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                         AUG. 30, 1983                    242

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11
12
13     576  3.7 246  L   7.6  -4 314   4.2  -3.9   1.9  5  J
14     661  2.6 247  J   6.3   7 279   0.7  -3.6   2.8  4  J
15     687  3.1 346  J   6.4 -24 292   1.7  -4.7   0.2  4  J
16
17
18
19
20
21
22
23     604  4.1 556  J   7.2 -34 346   4.7  -1.7  -3.0  4  J
24     649  3.5 465  J   7.6  20  25   3.8   2.0   1.2  6  J

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 1
 2     615  5.1 220  J   8.2 -10 314   4.9  -5.3  -0.0  4  J
 3     603  4.7 223  J   8.0  -6 328   5.1  -3.2   0.3  5  J
 4     628  5.0 320  J   8.5 -59 319   3.0  -4.5  -5.4  4  J
 5
 6     653  3.8 164  J   6.1  34 271   0.1  -2.7   4.4  3  J
 7     651  3.3 132  J   5.6   4 274   0.3  -3.9   2.4  3  J
 8     586  3.3 129  J   5.6   1 335   4.8  -1.9   1.2  2  J
 9     574  3.2 116  J   5.2   6 335   4.3  -1.5   1.5  2  J
10
11
12
13
14
15
16
17
18
19
20
21
22     497  4.2 107  J   5.2  10 322   3.8  -2.8   1.4  2  J
23     516  4.5  79  J   5.3  -7 278   0.7  -4.9   0.3  2  J
24     505  4.5  99  J   5.2   4 301   2.0  -3.2   0.9  3  J
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VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
        1000  SC  MAGN LAT LON                      SC

                  AUG. 27, 1983                    239

544  2.7  52  J   4.8  17 122  -2.3   3.8   0.6  2  J
545  3.1  67  J   4.8  31 179  -4.0   0.6   2.3  1  J
547  3.0  69  J   4.9  36 179  -3.7   0.8   2.6  2  J
532  2.3 115  J   4.8  28 194  -4.1  -0.3   2.5  1  J
524  2.4  93  J   4.8  37 181  -3.8   1.0   2.7  1  J
520  2.2  74  J   4.8  31 181  -4.1   0.9   2.3  1  J
523  1.8  71  J   4.9  38 170  -3.6   1.9   2.3  1  J
503  2.2  58  J   4.8  34 196  -3.7   0.3   2.8  1  J
508  2.4  54  J   4.8  38 200  -3.4   0.4   3.1  1  J
491  2.1  53  L   4.7  28 197  -3.9   0.1   2.5  1  J
495  2.3  37  J   4.7  26 193  -3.9   0.3   2.2  1  J
496  2.5  71  J   3.5  28 177  -1.9   0.6   0.8  3  J
495  3.0  81  J   3.1 -42 110  -0.5   0.5  -1.9  2  J
468  3.4  53  J   3.0  -6 162  -2.4   0.5  -0.6  2  J
465  3.4  51  J   3.9 -19 123  -1.6   1.8  -2.1  2  J
474  3.5  60  J   3.9 -20 101  -0.6   2.4  -2.4  2  J
456  3.3  55  J   4.2  -2 124  -2.1   2.8  -1.3  2  J
458  3.5  50  J   4.5   5 141  -3.2   2.5  -0.5  2  J
                  4.3   0  92  -0.1   3.3  -1.0  3  J
426  3.3 142  J   4.3  10 131  -2.0   2.4  -0.0  3  J
464  4.0  46  J   4.2  -5 101  -0.6   3.2  -0.9  2  J
462  4.2  48  J   4.1  39  80   0.5   3.3   1.8  1  J
456  4.0  61  J   4.2  16 117  -1.7   3.5   0.5  2  J
428  3.4  62  J   4.5 -13 152  -3.6   1.7  -1.3  1  J

                  AUG. 29, 1983                    241

 
 
 
 
 
 
369 18.1  31  J   4.7   2  41   3.4   2.7  -1.2  1  J
369 19.3  26  J   5.2  -6 111  -1.7   3.6  -2.6  2  J
374 24.0  24  J   3.8   8  21   2.0   0.8  -0.1  3  J
374 27.7  19  J   3.4  -4  19   3.1   0.8  -0.8  1  J
385 43.3  51  J   5.8  24  71   1.6   5.1  -0.7  2  J
376 48.0  29  J   4.5   2  73   1.2   3.4  -2.1  2  J
373 47.7  36  J   7.4  53  73   1.0   5.3   2.2  5  J
377 45.3  44  J   9.1  25  81   1.2   8.1  -0.7  4  J
382 65.5  51  J  10.5  26 275   0.8  -6.1   8.4  2  J
360 56.9  83  J  12.1  14 173  -9.7   2.1   1.7  7  J
364 56.8  55  J  12.5  -8 114  -4.8   9.3  -5.5  4  J
349 56.8  57  J  11.1 -16 126  -6.0   6.8  -5.4  3  J
345 51.4  43  J   7.3 -15 161  -5.7   1.4  -2.1  4  J
340 47.4  36  J   8.7   8 168  -7.3   1.7   0.7  4  J
357 61.6  50  J  11.1  -5 126  -5.8   7.6  -2.5  5  J
385 71.1  65  J  12.1 -30 114  -2.4   4.7  -4.4 10  J
390 53.9  81  J  19.5  12 283   3.5 -14.3   5.9 11  J
420 57.1  91  J  17.2  65 266  -0.5  -4.1  15.8  5  J

                  AUG. 31, 1983                    243

636  3.5 550  J   8.3  -6 332   6.1  -3.3  -0.1  4  J
650  3.2 321  J   8.9 -38 343   4.7  -2.3  -3.4  6  J
624  3.0 254  J   9.7 -32 345   6.4  -2.8  -3.5  6  J
641  2.9 223  J   9.2 -19 323   5.1  -4.3  -0.9  6  J
638  4.2 565  L   9.1 -21 299   2.9  -5.8  -0.2  6  J
                  9.2   1 249  -3.3  -7.7   3.6  1  J
558  4.1 278  J   8.6  17 312   5.0  -3.9   4.6  4  J
626  3.1 215  J   8.9 -11 327   6.5  -4.4   0.8  4  J
650  2.8 186  J   8.9 -16 359   8.1  -1.3  -1.9  3  J
651  3.6 345  J   8.5  -1 299   3.5  -5.4   3.3  4  J

652  3.3 185  J   8.1 -14 347   7.1  -2.4  -0.6  3  J
658  3.3 312  J   8.0 -11 325   5.2  -3.8   0.9  4  J





                  8.8 -26   6   5.8  -0.1  -2.9  6  J
                  8.7 -30 323   5.5  -4.8  -3.0  4  J


639  5.2 288  J   8.3 -29 313   4.4  -5.2  -2.6  4  J
626  5.0 259  J   8.1  14 334   6.3  -2.7   2.3  4  J

                  SEP. 2, 1983                     245

509  4.9 117  J   5.2  -2 272   0.1  -3.2   0.6  4  J
521  4.8  93  J   5.5  -4 256  -1.2  -4.9   0.8  2  J
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09/08/83 – 09/15/83

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HR       VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF        VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IM
                   1000  SC  MAGN LAT LON                      SC                  1000  SC  MAGN LAT LON                      SC

                              SEP.  8, 1983                   251                             SEP.  9, 1983                    252

 1    349  9.2   33  J    6.9   7 139   -4.7   4.2   -0.2  1  J                            11.3  38 310    4.3  -3.8    6.2  8  J
 2    347 10.3   60  J    6.9   3 136   -4.5   4.3   -0.8  2  J        515  9.9  330  J   13.6   3 306    7.7 -10.1    3.3  3  J
 3    348 10.5   45  J    7.0   1 128   -3.8   4.7   -1.3  2  J        501  7.9  250  J   14.1  -9 317    8.8  -8.4    0.6  7  J
 4    348 10.3   40  J    6.6  11 129   -3.6   4.6   -0.4  2  J        488  8.5  206  J   13.3   7 333   10.4  -4.5    3.1  6  J
 5    345 11.2   47  J    6.1  22 139   -3.8   3.8    0.6  2  J        517  7.9  311  J   12.6  19 296    4.5  -7.1    6.8  6  J
 6    348 12.2   81  J    6.0  38 159   -4.3   3.1    2.6  1  J        502  8.5  309  J   12.2  -2 303    6.2  -8.7    3.7  4  J
 7    353 13.7   49  J    7.3 -16 136   -4.6   3.0   -3.7  2  J        519  7.5  245  J   11.7  -7 289    3.4  -9.2    3.5  5  J
 8    368 17.6   49  J    9.4 -20 126   -4.9   4.3   -6.1  2  J        504  6.3  174  J   11.3 -11 300    4.9  -8.2    2.7  5  J
 9    375 22.9   37  J    9.8   3 125   -5.2   6.5   -3.6  3  J        474  6.9  125  J   10.4  -2 335    9.0  -3.7    2.0  3  J
10                                                                     510  6.1  123  J    9.6   0 327    7.3  -3.9    2.6  4  J
11                                                                     563  7.3  209  J    7.6  52  12    4.2   3.8    4.0  3  J
12                                                                     556  7.1  180  J    8.4  43 339    5.5   1.3    5.7  2  J
13    388 50.7   49  J    5.6  69 202   -1.5   1.8    3.9  4  J        546  7.7  213  J    8.7  27 335    6.1  -0.5    4.5  4  J
14                       12.4  51 247   -0.7  -0.3    2.7 12  J        527  7.2  141  J    8.7 -25 330    5.7  -4.4   -0.9  5  J
15                       15.0  -2 305    8.4 -10.8    5.4  4  J        526  6.5  144  J    8.5 -46 343    4.8  -3.8   -3.8  4  J
16    413 12.7   35  J   17.7  -1 308   10.7 -12.4    5.8  2  J        539  6.1  187  J    8.5  17 346    5.8  -0.5    2.3  6  J
17                                                                     540  6.0  182  J    8.6  16 323    5.3  -2.9    3.3  5  J
18                                                                     535  5.3  164  J    8.7 -20 306    3.8  -5.7   -0.4  5  J
19
20                                                                                          7.8  11 319    4.7  -3.7    2.2  5  J
21                       14.4  43 131   -6.2   8.9    7.0  6  J        547  5.0  162  J
22                       13.6  59 200   -6.3   0.0   11.5  4  J        559  5.3  177  J    7.6  31 304    3.6  -4.5    4.9  0  J
23                       14.0  34 284    2.4  -8.1    8.4  7  J        557  5.3  187  J    7.3 -23 305    2.7  -4.2   -1.2  5  J
24                       14.0   9 291    4.1 -10.1    3.9  8  J        563  5.4  180  J    7.2 -14 291    2.3  -6.2   -0.3  3  J

                              SEP. 10, 1983                   253                             SEP. 11, 1983                    254

 1    550  5.3  156  J    7.1   1 304    3.5  -5.0    1.3  3  J        512  3.4   74  J    5.8  -4 328    4.1  -2.5    0.2  3  J
 2    549  5.2  140  J    6.9  11 327    4.2  -2.4    1.6  5  J        527  3.5   90  J    6.0 -22 317    3.2  -3.3   -0.9  4  J
 3    551  5.4  151  J    6.9  -6 310    3.1  -3.7    0.6  5  J        528  3.5   87  J    6.2 -14 301    2.6  -4.6    0.1  3  J
 4    572  4.8  119  J    6.7  19 298    2.3  -3.5    3.1  4  J        516  3.5   74  J    6.1  -9 316    3.7  -3.6    0.4  3  J
 5                                                                     514  3.5   69  J    6.0  -3 318    3.9  -3.4    1.1  3  J
 6                                                                     532  3.4   87  J    5.7  14 316    2.7  -2.0    2.0  4  J
 7    531  4.2  112  J    6.9  12  13    5.7   1.8    0.5  3  J        521  3.5  105  J
 8    535  3.9  139  J    6.4  18 351    5.4   0.2    1.9  3  J        509  3.4   75  J
 9                                                                     498  3.2   75  J
10    561  3.5  121  J    6.6  16 309    2.8  -2.1    3.0  5  J        538  3.5  106  J
11    574  3.6  141  J    6.5 -10 287    1.2  -3.8    1.7  5  J        504  3.5   79  J    5.6  -2 356    4.3  -0.3    0.0  4  J
12    555  3.8  159  J    6.5 -23 293    2.0  -5.1    0.8  3  J        524  3.6  103  J    5.7 -56 317    1.9  -3.7   -2.2  3  J
13    556  3.7  155  J    6.6  47 314    2.4  -0.1    4.4  4  J        490  3.2   81  J    5.7   4 339    5.0  -1.4    1.4  2  J
14    535  3.7   99  J    7.4  16 332    4.7  -1.3    2.6  5  J        501  3.5   77  J    5.8  25 330    3.9  -0.8    3.0  3  J
15    522  3.9   94  J    7.1 -24 325    4.9  -4.3   -0.7  3  J        490  4.0  124  J    5.5 -39 335    3.2  -2.7   -1.8  3  J
16    522  4.0  137  J    5.9 -22 350    4.7  -1.6   -1.3  3  J        504  4.1  105  J    5.7  27 344    4.0  -0.1    2.4  3  J
17    549  3.6  152  J    5.8 -13 317    2.4  -2.3    0.2  5  J        483  4.5  155  J    5.7  18 347    5.0  -0.4    2.0  2  J
18    521  3.3   87  J    5.8  10   7    5.2   0.9    0.6  2  J        495  4.6  137  J    5.4   8 350    4.2  -0.5    0.8  3  J
19    546  3.2  131  J    5.7 -52 343    2.5  -1.7   -2.9  4  J        509  4.7  107  J    5.3   6 309    2.4  -2.7    1.3  4  J
20    527  2.9  108  J    5.9   0 324    3.9  -2.7    0.7  3  J        499  5.1  140  J    5.4 -26 348    3.1  -1.0   -1.3  4  J
21    491  2.3   56  J    6.5 -19 338    5.3  -2.6   -1.4  2  J        530  5.0  121  J    5.7  29 269   -0.1  -3.2    2.9  4  J
22    483  1.9   87  J    6.4   9 342    5.7  -1.6    1.3  2  J        532  5.3  142  J    5.8  20 270   -0.0  -4.2    2.6  3  J
23    471  2.9   86  L    6.7  16 343    5.7  -1.4    2.0  2  J        513  5.0   91  J    5.6  -3 296    2.0  -4.0    0.6  3  J
24    514  3.6   72  J    6.2 -39 341    4.2  -2.1   -3.2  3  J        484  5.2  155  J    5.5  -4 336    3.6  -1.6    0.1  4  J

                              SEP. 12, 1983                   255                             SEP. 13, 1983                    256

 1    472  5.3  113  J    5.8   0 335    4.9  -2.2    0.5  2  J        422  4.0   66  J    5.4 -23 359    4.7  -0.5   -1.9  2  J
 2    471  5.4  121  L    5.2  -6 337    4.3  -1.9   -0.0  2  J        427  4.0   69  J    5.7 -21  11    4.9   0.4   -2.1  2  J
 3    482  4.7   84  J    5.5 -21  26    3.9   1.3   -2.1  3  J
 4    473  4.9   94  J    5.5 -15  28    4.0   1.6   -1.9  3  J
 5    461  4.4   51  J    5.4   1  11    4.7   0.9   -0.3  2  J
 6    465  4.6   55  J    5.5 -18  11    4.4   0.1   -1.7  3  J
 7    469  4.6   74  J    5.5   1  25    3.8   1.6   -0.8  4  J        418  3.9   75  L    5.3 -20   1    4.7  -0.7   -1.5  2  J
 8    477  4.7   79  J    5.7 -15  53    3.0   2.7   -3.2  2  J        405  4.3   61  L    5.9 -20   0    5.3  -1.0   -1.6  2  J
 9    456  4.6   47  J    5.8 -16  23    4.9   0.9   -2.4  2  J        414  5.2   69  L    5.9 -10  12    5.3   0.4   -1.4  2  J
10    465  5.0   79  J    5.8 -30  19    4.0  -0.2   -2.8  3  J                             5.9  -7  11    5.6   0.5   -1.2  1  J
11    472  5.0   78  J    5.7 -29  57    2.6   1.8   -4.4  2  J        399  5.8   76  L    6.2 -12  15    5.7   0.5   -1.9  1  J
12    458  4.8   57  J    5.8 -21  10    4.1  -0.3   -1.7  3  J        398  5.3   59  L    6.1 -12  10    5.7   0.1   -1.6  2  J
13    450  4.7   57  J    5.7  11   3    5.0   0.8    0.7  3  J
14    470  4.9   67  J    5.4   7 326    2.9  -1.4    1.4  4  J
15    461  4.4   64  J    5.7  19 325    3.9  -1.6    2.7  3  J        405  6.9   75  L    6.7 -19 349    5.4  -1.8   -1.1  3  J
16    490  4.6   58  J    6.1  23 283    1.1  -3.2    3.8  3  J        398  6.7   71  L    6.6  -8 332    5.2  -2.9    0.5  3  J
17    494  4.8   67  J    6.2  12 264   -0.6  -4.7    3.3  2  J        394  6.6   72  L    6.5  -6 332    5.4  -2.9    0.6  2  J
18    485  4.5   61  J    6.0  20 270   -0.0  -4.3    3.6  2  J        398  6.8   78  L    6.2  16 324    4.4  -2.5    2.6  2  J
19    461  5.0  104  L    5.7  20 285    1.2  -3.9    3.1  2  J        394  6.7   78  L    6.2  -1 323    4.7  -3.4    1.0  2  J
20    454  4.3   56  J    5.6   3 319    3.5  -2.9    1.0  3  J        432  7.3   55  J    6.0   0 259   -1.1  -5.3    1.4  2  J
21    452  4.4   96  J    5.1 -15 349    3.1  -0.8   -0.7  4  J        411  6.9   66  J    5.6  -9 280    0.7  -3.7    0.3  4  J
22    433  4.3  121  J    5.3  -5   3    4.6   0.2   -0.4  3  J        375  7.0   49  J    5.6  -4  24    4.6   1.9   -0.8  2  J
23    467  4.6   73  J    5.6 -15 282    1.0  -4.7   -0.3  3  J        374  7.7   38  J    6.3 -14 353    5.1  -0.9   -1.1  3  J
24    441  4.3   89  J    5.5 -19 338    4.0  -1.9   -1.1  3  J        393  8.6   58  J    6.1 -18 293    1.9  -4.7   -0.6  3  J

                              SEP. 14, 1983                   257                             SEP. 15, 1983                    258

 1    371  8.3   50  J    6.1 -19 340    4.4  -1.9   -1.2  4  J        392 13.0   72  J   10.8  29 290    2.6  -6.1    5.8  6  J
 2    366  8.3   55  J    6.2  -6 334    5.0  -2.5    0.1  3  J        399 14.8   75  J   10.6   0 304    5.4  -7.7    2.0  4  J
 3    389  9.0   61  J    6.2   1 293    1.8  -4.1    1.4  4  J
 4    405 10.2   54  J    6.6  -9 256   -1.4  -5.5    1.0  3  J
 5    398 10.6   54  J    7.0   3 264   -0.6  -5.1    2.5  4  J
 6    375 10.7   54  J    7.2  -5 316    4.4  -4.0    1.4  4  J
 7    368 10.9   65  J    6.6  -2 318    4.3  -3.5    1.7  3  J
 8    383 10.9   58  J    6.3   1 346    3.7  -0.8    0.5  5  J        326 20.3   98  L
 9    399 10.7   52  J    6.8   5 245   -2.6  -4.4    3.5  3  J        371 23.9   62  L    7.0  -1 148   -5.9   3.0   -2.1  2  J
10    390 10.0   49  J    6.7  27 250   -1.8  -2.6    5.1  3  J        391 34.0   43  L    7.0  11 337    6.2  -1.4    2.6  2  J
11                                                                     383 39.5   29  L
12    381 11.3   31  J    6.5 -19 263   -0.6  -5.4    1.5  3  J        363 26.5   59  L
13    363  9.8   40  J    6.6  37 336    4.2   0.3    3.9  3  J
14    354 10.4   61  J    7.1  24 347    6.0   0.3    3.0  2  J
15    345 11.4   48  J    7.5   7  19    6.3   2.3   -0.3  3  J                             9.3   2 315    6.3  -5.3    3.3  2  J
16    354 10.7   39  J    7.2 -39  53    3.2   1.9   -5.7  2  J
17    348 10.0   48  J    6.8 -27  36    4.3   1.8   -3.7  3  J
18    336  8.3   31  J    6.1 -12   2    5.4  -0.2   -1.1  2  J
19    333  9.0   22  J    6.7  -6 341    6.0  -2.2   -0.0  2  J
20    369 10.3   36  J    6.7   7 284    1.2  -4.4    1.8  5  J
21    373 12.2   41  J    7.6  12 293    2.3  -4.9    2.4  5  J
22    376 15.0   55  J    9.2  -6 300    4.0  -6.9    0.6  4  J
23    387 15.6   58  J    9.8  27 281    1.6  -7.2    5.9  3  J
24    395 15.4   68  J    9.7  45 267   -0.3  -4.3    6.6  5  J
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### SEP. 20, 1983 263

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 6.4 | -27 | 127 | -2.9 | 3.3 | -3.3 | 3 | J |
| 23 | 466 | 4.2 | 74 | J | 5.4 | 8 | 152 | -4.1 | 2.3 | 0.2 | 2 | J |
| 24 | 513 | 3.9 | 98 | J | 5.1 | -5 | 82 | 0.5 | 3.2 | -1.0 | 4 | J |

### SEP. 21, 1983 264

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 481 | 3.6 | 67 | J | 5.6 | 10 | 156 | -2.8 | 1.3 | 0.2 | 5 | J |
| 2 | 492 | 3.0 | 50 | J | 6.2 | -7 | 110 | -1.9 | 4.8 | -2.0 | 2 | J |
| 3 | 470 | 3.0 | 48 | J | 6.1 | -5 | 129 | -3.4 | 3.9 | -1.7 | 2 | J |
| 4 | 467 | 3.1 | 51 | J | 5.7 | -29 | 147 | -3.7 | 1.4 | -3.1 | 2 | J |
| 5 | 460 | 3.4 | 60 | J | 4.9 | -33 | 174 | -3.3 | -0.5 | -2.1 | 3 | J |
| 6 | 448 | 3.1 | 49 | J | 4.8 | -2 | 151 | -3.7 | 1.8 | -1.0 | 2 | J |
| 7 | 456 | 2.9 | 53 | J | 5.4 | 0 | 126 | -2.8 | 3.3 | -1.9 | 2 | J |
| 8 | 451 | 2.9 | 53 | J | 5.7 | 2 | 119 | -2.5 | 3.9 | -2.2 | 2 | J |
| 9 | 446 | 2.8 | 60 | J | 5.0 | 0 | 141 | -3.4 | 2.3 | -1.5 | 2 | J |
| 10 | 444 | 3.1 | 63 | J | 4.9 | 9 | 149 | -3.7 | 2.2 | -0.7 | 2 | J |
| 11 | 428 | 2.8 | 54 | J | 5.2 | 15 | 143 | -3.9 | 3.1 | -0.6 | 1 | J |
| 12 | 400 | 3.3 | 69 | L | 5.2 | -15 | 165 | -4.4 | 0.3 | -1.7 | 2 | J |
| 13 | | | | | | | | | | | | |
| 14 | 407 | 3.9 | 33 | J | 6.0 | -17 | 121 | -2.5 | 2.7 | -3.4 | 3 | J |
| 15 | 415 | 3.8 | 26 | J | 6.3 | -20 | 119 | -2.6 | 3.2 | -4.1 | 2 | J |
| 16 | 400 | 3.3 | 21 | J | 5.7 | -8 | 121 | -2.3 | 3.1 | -2.3 | 3 | J |
| 17 | 396 | 4.1 | 59 | J | 5.9 | 4 | 152 | -4.6 | 2.4 | -0.6 | 3 | J |
| 18 | | | | | 6.3 | -22 | 112 | -1.8 | 3.5 | -3.4 | 4 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 385 | 3.9 | 33 | J | 5.9 | 42 | 139 | -3.0 | 3.4 | 2.9 | 2 | J |
| 22 | 383 | 4.0 | 35 | J | 5.9 | 42 | 146 | -3.5 | 3.1 | 3.2 | 1 | J |
| 23 | 391 | 4.3 | 33 | J | 5.5 | 31 | 131 | -2.9 | 3.8 | 1.9 | 2 | J |
| 24 | 391 | 5.7 | 23 | J | 5.5 | -48 | 101 | -0.7 | 2.7 | -4.8 | 1 | J |

### SEP. 22, 1983 265

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 374 | 6.3 | 24 | J | 5.7 | -45 | 111 | -1.4 | 2.6 | -4.6 | 1 | J |
| 2 | 372 | 5.0 | 27 | J | 5.6 | -29 | 144 | -3.6 | 1.9 | -3.1 | 2 | J |
| 3 | 353 | 4.9 | 36 | J | 6.1 | 2 | 144 | -4.6 | 3.3 | -0.8 | 2 | J |
| 4 | 353 | 5.8 | 29 | J | 6.4 | 9 | 136 | -4.3 | 4.2 | -0.6 | 2 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 338 | 6.3 | 17 | J | 8.2 | 11 | 154 | -7.0 | 3.7 | -0.3 | 2 | J |
| 8 | 368 | 7.0 | 33 | J | 7.9 | -22 | 132 | -3.4 | 2.1 | -3.7 | 6 | J |
| 9 | 386 | 8.1 | 39 | J | 6.9 | -63 | 91 | -0.0 | -0.6 | -5.4 | 4 | J |
| 10 | 395 | 8.2 | 39 | J | 7.2 | -79 | 294 | 0.5 | -4.1 | -4.2 | 4 | J |
| 11 | 399 | 7.4 | 30 | J | 8.1 | -82 | 316 | 0.8 | -5.1 | -6.0 | 2 | J |
| 12 | 404 | 9.2 | 66 | J | 6.4 | -47 | 277 | 0.2 | -2.6 | -0.6 | 6 | J |
| 13 | 403 | 10.4 | 44 | J | 6.8 | -17 | 279 | 0.9 | -5.6 | 1.6 | 3 | J |
| 14 | 398 | 10.7 | 51 | J | 7.1 | -32 | 294 | 2.4 | -6.7 | -0.3 | 0 | J |
| 15 | 397 | 10.5 | 66 | J | 7.5 | -20 | 263 | -0.8 | -6.7 | 1.1 | 3 | J |
| 16 | | | | | | | | | | | | |
| 17 | 392 | 9.3 | 58 | J | 7.6 | 23 | 247 | -2.6 | -4.5 | 5.0 | 3 | J |
| 18 | 385 | 10.4 | 86 | J | 5.6 | 9 | 244 | -1.9 | -3.5 | 2.1 | 3 | J |
| 19 | 373 | 9.6 | 86 | J | 5.9 | 29 | 155 | -4.4 | 2.7 | 1.9 | 2 | J |
| 20 | 395 | 8.7 | 132 | J | 4.2 | 7 | 252 | -0.9 | -2.6 | 1.1 | 3 | J |
| 21 | 392 | 8.6 | 126 | J | 4.8 | -22 | 284 | 0.9 | -3.8 | -0.6 | 3 | J |
| 22 | 388 | 8.7 | 140 | J | 4.4 | -16 | 257 | -0.8 | -3.6 | -0.3 | 3 | J |
| 23 | 389 | 8.2 | 105 | J | 5.5 | -10 | 247 | -1.5 | -3.7 | 0.1 | 4 | J |
| 24 | 373 | 7.2 | 72 | J | 6.1 | 29 | 240 | -2.4 | -3.6 | 3.6 | 2 | J |

### SEP. 23, 1983 266

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 7.1 | 64 | J | 5.3 | 3 | 242 | -2.0 | -3.6 | 1.1 | 3 | J |
| 2 | 376 | 7.3 | 49 | J | 6.0 | -11 | 255 | -1.1 | -4.2 | 0.3 | 4 | J |
| 3 | 346 | 7.1 | 55 | J | 6.2 | -15 | 214 | -4.8 | -3.6 | -0.5 | 2 | J |
| 4 | 344 | 7.3 | 56 | J | 6.4 | -13 | 218 | -4.8 | -4.0 | -0.0 | 1 | J |
| 5 | 345 | 7.8 | 43 | J | 6.6 | -1 | 214 | -5.2 | -3.3 | 1.3 | 2 | J |
| 6 | 341 | 6.8 | 47 | J | 7.0 | -11 | 223 | -5.0 | -4.8 | 0.9 | 1 | J |
| 7 | 347 | 8.1 | 37 | J | 7.4 | -10 | 238 | -3.8 | -5.9 | 1.8 | 1 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 338 | 5.0 | 28 | J | 8.2 | -61 | 199 | -3.7 | -4.5 | -5.5 | 1 | J |
| 16 | 286 | 4.3 | 31 | L | 8.5 | -34 | 190 | -6.7 | -3.1 | -3.6 | 2 | J |
| 17 | 291 | 4.5 | 25 | J | 9.3 | -32 | 182 | -7.8 | -2.2 | -4.4 | 1 | J |
| 18 | 292 | 5.3 | 30 | J | 10.1 | -19 | 186 | -9.2 | -2.0 | -2.6 | 2 | J |
| 19 | 295 | 6.0 | 47 | J | 10.8 | -16 | 168 | -10.0 | 1.1 | -3.4 | 2 | J |
| 20 | 282 | 5.1 | 49 | L | 9.3 | 5 | 163 | -8.4 | 2.7 | 0.1 | 3 | J |
| 21 | 288 | 4.6 | 26 | J | 9.0 | 3 | 165 | -8.1 | 2.2 | -0.1 | 3 | J |
| 22 | 303 | 5.6 | 25 | J | 10.6 | 6 | 144 | -8.1 | 6.0 | -0.2 | 3 | J |
| 23 | 313 | 5.9 | 22 | J | 11.4 | 20 | 140 | -7.9 | 7.3 | 2.3 | 3 | J |
| 24 | 343 | 7.2 | 23 | J | 11.9 | 10 | 117 | -5.1 | 10.1 | -0.2 | 4 | J |

### SEP. 24, 1983 267

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 351 | 8.4 | 29 | J | 11.7 | 10 | 113 | -4.4 | 10.5 | -0.5 | 3 | J |
| 2 | 376 | 6.5 | 57 | J | 11.4 | -1 | 110 | -3.7 | 9.8 | -2.9 | 3 | J |
| 3 | 365 | 6.7 | 27 | J | 12.1 | 35 | 123 | -5.3 | 9.8 | 4.0 | 3 | J |
| 4 | 345 | 6.2 | 24 | J | 11.9 | 45 | 133 | -5.6 | 8.6 | 5.6 | 2 | J |
| 5 | 340 | 7.1 | 22 | J | 11.2 | 56 | 135 | -4.4 | 7.7 | 6.7 | 1 | J |
| 6 | 349 | 6.8 | 30 | J | 10.9 | 65 | 144 | -3.7 | 6.7 | 7.5 | 2 | J |
| 7 | | | | | | | | | | | | |
| 8 | 370 | 7.3 | 136 | J | 4.7 | -2 | 198 | -2.7 | -0.8 | 0.4 | 4 | J |
| 9 | 380 | 6.2 | 130 | J | 5.3 | 32 | 184 | -2.6 | 0.7 | 1.5 | 4 | J |
| 10 | 364 | 7.3 | 180 | J | 6.1 | 35 | 177 | -4.1 | 1.8 | 2.2 | 3 | J |
| 11 | 373 | 6.8 | 102 | J | 7.5 | 63 | 192 | -2.1 | 2.0 | 3.7 | 6 | J |
| 12 | 378 | 7.1 | 65 | J | 8.4 | 0 | 106 | -1.8 | 5.3 | -3.7 | 5 | J |
| 13 | 390 | 7.7 | 67 | J | 8.3 | -33 | 59 | 2.3 | 2.7 | -6.8 | 3 | J |
| 14 | 383 | 7.9 | 49 | J | 7.9 | -21 | 102 | -1.4 | 4.3 | -5.7 | 3 | J |
| 15 | 377 | 7.4 | 47 | J | 7.7 | -35 | 122 | -3.2 | 2.4 | -6.2 | 2 | J |
| 16 | 376 | 8.1 | 29 | J | 8.2 | -12 | 122 | -4.3 | 5.3 | -4.6 | 0 | J |
| 17 | 410 | 20.7 | 45 | J | 3.4 | 24 | 125 | -1.6 | 2.5 | 0.2 | 2 | J |
| 18 | 403 | 21.7 | 51 | J | 5.2 | 81 | 175 | -0.7 | 1.7 | 4.3 | 2 | J |
| 19 | 402 | 22.4 | 63 | J | 7.1 | 16 | 267 | -0.3 | -4.7 | 3.2 | 4 | J |
| 20 | 397 | 22.9 | 67 | J | 7.8 | -10 | 297 | 3.3 | -6.5 | 0.5 | 3 | J |
| 21 | 400 | 25.5 | 61 | J | 8.7 | 12 | 274 | 0.6 | -7.4 | 3.5 | 3 | J |
| 22 | 398 | 26.0 | 82 | J | 8.9 | 16 | 299 | 3.5 | -5.8 | 3.4 | 5 | J |
| 23 | 412 | 21.5 | 78 | J | 12.5 | 26 | 302 | 4.0 | -5.4 | 4.9 | 9 | J |
| 24 | 414 | 19.2 | 78 | J | 14.0 | 44 | 303 | 5.4 | -6.1 | 11.2 | 2 | J |

### SEP. 25, 1983 268

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 426 | 23.4 | 200 | J | 13.0 | -28 | 325 | 8.1 | -6.7 | -3.8 | 7 | J |
| 2 | 448 | 17.9 | 173 | J | 15.5 | -4 | 310 | 9.3 | -11.0 | 1.9 | 6 | J |
| 3 | 474 | 18.8 | 244 | J | 15.0 | -38 | 319 | 7.0 | -7.9 | -5.0 | 9 | J |
| 4 | 479 | 19.0 | 250 | J | 15.1 | 9 | 305 | 6.4 | -8.0 | 4.8 | 10 | J |
| 5 | 493 | 14.0 | 206 | J | 17.1 | 19 | 309 | 9.3 | -8.5 | 9.2 | 7 | J |
| 6 | 501 | 13.1 | 256 | J | 16.3 | 12 | 313 | 10.3 | -8.4 | 7.8 | 5 | J |
| 7 | 509 | 13.5 | 275 | J | 15.5 | -13 | 320 | 10.4 | -9.1 | 1.5 | 7 | J |
| 8 | 509 | 13.7 | 212 | J | 15.7 | 2 | 325 | 12.3 | -7.1 | 4.9 | 5 | J |
| 9 | 519 | 14.2 | 260 | J | 15.2 | 23 | 324 | 10.7 | -3.4 | 9.0 | 5 | J |
| 10 | 523 | 12.2 | 255 | J | 13.2 | 0 | 331 | 9.5 | -4.4 | 2.9 | 7 | J |
| 11 | 578 | 11.5 | 317 | J | 12.3 | 17 | 309 | 5.6 | -4.1 | 6.2 | 8 | J |
| 12 | 590 | 10.2 | 345 | J | 12.3 | 15 | 314 | 6.8 | -4.3 | 6.2 | 7 | J |
| 13 | 607 | 10.3 | 330 | J | 12.2 | 29 | 335 | 7.2 | -0.4 | 5.5 | 8 | J |
| 14 | 621 | 9.4 | 311 | J | 11.3 | -19 | 333 | 7.7 | -4.9 | -0.5 | 6 | J |
| 15 | 665 | 8.5 | 376 | J | 9.4 | 9 | 315 | 3.7 | -2.8 | 2.5 | 8 | J |
| 16 | 694 | 6.8 | 348 | J | 7.6 | -30 | 354 | 2.6 | -0.9 | -1.2 | 7 | J |
| 17 | 676 | 6.9 | 358 | J | 7.6 | -7 | 339 | 3.9 | -1.6 | 0.1 | 6 | J |
| 18 | 646 | 6.7 | 222 | J | 8.3 | 10 | 340 | 7.3 | -2.0 | 2.2 | 2 | J |
| 19 | 647 | 7.0 | 235 | J | 8.6 | 7 | 332 | 6.5 | -3.0 | 1.9 | 4 | J |
| 20 | 665 | 7.1 | 275 | J | 9.2 | 10 | 308 | 4.4 | -5.1 | 2.7 | 5 | J |
| 21 | 674 | 7.5 | 262 | J | 9.7 | 18 | 294 | 3.2 | -6.5 | 4.2 | 5 | J |
| 22 | 670 | 6.7 | 407 | J | 8.1 | -35 | 358 | 5.2 | -1.0 | -3.5 | 5 | J |
| 23 | 657 | 6.7 | 342 | J | 8.5 | -16 | 345 | 6.6 | -2.1 | -1.5 | 5 | J |
| 24 | 648 | 6.6 | 281 | J | 8.8 | -7 | 338 | 7.3 | -3.1 | -0.3 | 4 | J |

### SEP. 26, 1983 269

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 649 | 6.0 | 252 | J | 8.8 | -25 | 319 | 5.2 | -5.1 | -2.1 | 4 | J |
| 2 | 622 | 4.8 | 110 | J | 10.0 | -4 | 326 | 8.0 | -5.4 | 0.8 | 2 | J |
| 3 | 639 | 5.6 | 227 | J | 9.4 | 4 | 330 | 6.8 | -3.6 | 1.7 | 5 | J |
| 4 | 644 | 6.2 | 306 | J | 9.1 | -14 | 333 | 6.1 | -3.5 | -0.5 | 6 | J |
| 5 | 657 | 6.5 | 259 | J | 9.5 | 8 | 311 | 5.5 | -5.3 | 3.6 | 4 | J |
| 6 | 653 | 7.2 | 300 | J | 7.8 | -36 | 346 | 4.9 | -2.7 | -2.7 | 5 | J |
| 7 | 650 | 7.5 | 341 | J | 8.0 | -20 | 350 | 5.3 | -1.8 | -1.2 | 6 | J |
| 8 | 648 | 6.3 | 266 | J | 7.5 | 6 | 328 | 5.7 | -2.7 | 2.5 | 3 | J |
| 9 | 672 | 5.6 | 235 | J | 7.7 | 3 | 324 | 4.3 | -2.4 | 1.9 | 6 | J |
| 10 | 685 | 5.0 | 231 | J | 7.2 | 1 | 311 | 3.9 | -3.7 | 2.6 | 4 | J |
| 11 | 683 | 5.4 | 197 | J | 6.9 | -8 | 339 | 5.5 | -2.2 | 0.5 | 3 | J |
| 12 | 696 | 5.0 | 218 | J | 7.6 | -3 | 318 | 4.3 | -3.4 | 1.9 | 5 | J |
| 13 | 682 | 4.2 | 150 | J | 6.8 | -14 | 333 | 5.0 | -2.9 | 0.2 | 4 | J |
| 14 | 683 | 3.8 | 146 | J | 6.4 | -2 | 330 | 4.7 | -2.4 | 1.3 | 3 | J |
| 15 | 699 | 3.3 | 184 | J | 7.0 | 65 | 356 | 2.7 | 2.7 | 5.2 | 2 | J |
| 16 | 703 | 3.4 | 167 | J | 7.3 | 62 | 313 | 2.2 | 0.6 | 6.5 | 2 | J |
| 17 | 671 | 3.7 | 158 | J | 6.6 | 23 | 343 | 5.4 | -0.6 | 2.8 | 2 | J |
| 18 | 658 | 3.4 | 167 | J | 6.7 | 1 | 323 | 4.5 | -3.1 | 1.3 | 3 | J |
| 19 | 639 | 3.2 | 107 | J | 6.5 | -1 | 325 | 4.8 | -3.3 | 0.9 | 3 | J |
| 20 | 645 | 3.6 | 121 | J | 6.4 | 21 | 319 | 4.0 | -2.8 | 2.9 | 3 | J |
| 21 | 650 | 3.6 | 103 | J | 6.3 | 20 | 316 | 3.7 | -3.0 | 2.6 | 3 | J |
| 22 | 646 | 3.7 | 119 | J | 5.7 | 5 | 324 | 3.9 | -2.7 | 1.0 | 3 | J |
| 23 | 678 | 4.0 | 182 | J | 6.1 | 47 | 327 | 1.6 | -0.6 | 2.2 | 5 | J |
| 24 | 664 | 4.1 | 223 | J | 5.7 | 5 | 322 | 3.0 | -2.2 | 0.8 | 4 | J |

### SEP. 27, 1983 270

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 653 | 4.2 | 221 | J | 6.1 | -31 | 34 | 4.0 | 1.9 | -3.4 | 2 | J |
| 2 | | | | | | | | | | | | |
| 3 | 657 | 3.6 | 160 | J | 5.1 | 7 | 317 | 2.7 | -2.3 | 1.2 | 4 | J |
| 4 | 634 | 3.8 | 135 | J | 5.6 | -5 | 319 | 4.1 | -3.5 | 0.8 | 1 | J |
| 5 | 629 | 3.8 | 99 | J | 5.9 | 5 | 317 | 3.9 | -3.1 | 1.9 | 2 | J |
| 6 | 617 | 3.8 | 106 | J | 5.9 | -5 | 336 | 4.7 | -2.1 | 0.5 | 3 | J |
| 7 | 627 | 3.7 | 114 | J | 5.7 | -3 | 336 | 4.2 | -1.7 | 0.7 | 3 | J |
| 8 | 632 | 3.6 | 120 | J | 5.8 | -5 | 315 | 3.4 | -3.1 | 1.4 | 3 | J |
| 9 | 603 | 3.6 | 115 | J | 6.0 | 2 | 333 | 5.0 | -2.0 | 1.6 | 2 | J |
| 10 | 579 | 3.2 | 84 | J | 6.4 | 2 | 329 | 5.1 | -2.4 | 1.9 | 2 | J |
| 11 | | | | | 6.6 | 7 | 21 | 5.3 | 2.1 | -0.6 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 466 | 10.4 | 130 | L | | | | | | | | |
| 4 | 461 | 8.2 | 63 | J | | | | | | | | |
| 5 | 464 | 9.5 | 94 | J | | | | | | | | |
| 6 | 445 | 9.6 | 162 | J | | | | | | | | |
| 7 | 450 | 10.2 | 154 | J | | | | | | | | |
| 8 | 457 | 9.6 | 126 | J | | | | | | | | |
| 9 | 446 | 9.6 | 108 | J | | | | | | | | |
| 10 | 441 | 11.5 | 184 | J | | | | | | | | |
| 11 | 444 | 7.4 | 91 | J | | | | | | | | |
| 12 | 422 | 8.1 | 66 | J | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 411 | 8.0 | 125 | J | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 404 | 6.0 | 53 | J | | | | | | | | |
| 19 | 410 | 5.9 | 45 | J | 8.8 | -1 | 130 | -4.9 | 5.5 | -1.9 | 3 | J |
| 20 | 400 | 7.2 | 51 | J | | | | | | | | |
| 21 | 404 | 8.3 | 55 | J | 8.7 | -5 | 115 | -3.2 | 6.4 | -2.2 | 4 | J |
| 22 | 400 | 7.8 | 58 | J | 8.1 | -21 | 111 | -2.2 | 5.1 | -3.5 | 5 | J |
| 23 | 389 | 7.8 | 52 | J | 8.0 | -24 | 133 | -4.5 | 4.1 | -3.8 | 3 | J |
| 24 | 375 | 6.9 | 46 | J | 8.0 | -19 | 146 | -5.6 | 3.2 | -3.1 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 374 | 8.5 | 37 | J | 8.6 | 26 | 144 | -5.5 | 4.7 | 2.3 | 4 | J |
| 2 | 382 | 9.4 | 34 | J | 9.0 | 31 | 149 | -5.7 | 4.4 | 3.0 | 4 | J |
| 3 | 371 | 9.7 | 29 | J | 9.6 | 4 | 144 | -7.3 | 5.2 | -1.0 | 3 | J |
| 4 | 367 | 9.5 | 27 | J | 9.7 | 8 | 144 | -7.5 | 5.5 | -0.6 | 2 | J |
| 5 | 372 | 8.8 | 24 | J | 10.8 | 12 | 135 | -7.3 | 7.5 | -0.9 | 2 | J |
| 6 | 368 | 10.5 | 26 | J | 10.4 | 2 | 137 | -7.5 | 6.4 | -2.8 | 1 | J |
| 7 | 388 | 22.4 | 44 | J | 14.7 | 12 | 128 | -7.2 | 9.3 | -2.3 | 8 | J |
| 8 | 386 | 27.2 | 50 | J | 18.7 | -1 | 135 | -12.4 | 10.5 | -6.7 | 6 | J |
| 9 | 370 | 24.5 | 47 | J | 18.9 | -8 | 134 | -12.7 | 9.6 | -9.4 | 3 | J |
| 10 | 368 | 30.5 | 44 | J | 19.3 | 9 | 132 | -12.6 | 13.2 | -5.4 | 3 | J |
| 11 | 373 | 36.7 | 34 | J | 21.0 | 24 | 135 | -13.2 | 15.6 | -0.6 | 5 | J |
| 12 | 382 | 38.4 | 36 | J | 22.5 | 10 | 126 | -11.9 | 15.6 | -6.2 | 9 | J |
| 13 | 384 | 34.7 | 30 | J | 23.6 | 48 | 159 | -14.4 | 14.0 | 11.4 | 5 | J |
| 14 | 392 | 31.1 | 96 | J | 17.2 | 11 | 128 | -6.5 | 8.2 | -2.5 | 14 | J |
| 15 | 419 | 29.6 | 165 | J | 18.5 | -42 | 75 | 3.5 | 5.6 | -16.9 | 5 | J |
| 16 | 475 | 16.5 | 287 | J | 15.6 | -40 | 1 | 8.3 | -2.9 | -6.4 | 11 | J |
| 17 | 473 | 18.8 | 377 | J | 12.2 | 7 | 314 | 7.1 | -6.3 | 4.0 | 7 | J |
| 18 | 490 | 15.4 | 315 | J | 9.3 | -14 | 356 | 7.5 | -1.1 | -1.6 | 5 | J |
| 19 | 510 | 12.9 | 255 | J | 10.4 | -13 | 354 | 8.3 | -1.4 | -1.6 | 6 | J |
| 20 | 535 | 11.3 | 242 | J | 10.7 | -4 | 359 | 10.4 | -0.4 | -0.7 | 3 | J |
| 21 | 525 | 8.8 | 163 | J | 8.9 | 14 | 347 | 7.8 | -1.3 | 2.4 | 3 | J |
| 22 | 508 | 7.2 | 95 | J | 7.7 | 8 | 326 | 5.9 | -3.7 | 1.8 | 2 | J |
| 23 | 505 | 6.8 | 84 | J | 7.6 | 20 | 354 | 6.8 | -0.2 | 2.6 | 2 | J |
| 24 | 506 | 6.5 | 81 | J | 7.6 | 13 | 343 | 6.7 | -1.7 | 2.0 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 517 | 7.8 | 157 | J | 7.2 | 26 | 323 | 4.4 | -2.6 | 3.3 | 4 | J |
| 2 | 517 | 7.3 | 86 | J | 7.7 | 33 | 323 | 4.4 | -2.3 | 4.3 | 4 | J |
| 3 | 519 | 9.6 | 105 | J | 8.8 | 40 | 313 | 3.5 | -2.3 | 5.2 | 6 | J |
| 4 | 533 | 10.2 | 110 | J | 8.4 | 68 | 307 | 1.7 | 0.3 | 7.5 | 4 | J |
| 5 | | | | | | | | | | | | |
| 6 | 539 | 8.4 | 166 | J | 8.3 | 19 | 197 | -7.1 | -0.8 | 3.2 | 3 | J |
| 7 | 536 | 7.6 | 173 | J | 5.8 | 53 | 193 | -2.8 | 1.3 | 3.6 | 3 | J |
| 8 | 517 | 5.7 | 156 | J | 7.7 | -3 | 335 | 6.2 | -2.6 | 1.2 | 4 | J |
| 9 | 510 | 7.2 | 175 | J | 9.2 | -15 | 321 | 6.7 | -5.8 | 1.0 | 2 | J |
| 10 | 503 | 8.3 | 146 | J | 9.1 | -1 | 315 | 5.5 | -4.6 | 3.0 | 5 | J |
| 11 | 511 | 10.6 | 151 | J | 5.4 | 10 | 283 | 1.1 | -3.4 | 3.4 | 2 | J |
| 12 | 465 | 7.6 | 101 | J | 8.3 | 37 | 281 | 0.5 | -1.0 | 3.0 | 8 | J |
| 13 | 485 | 8.2 | 102 | J | 8.1 | 3 | 263 | -0.6 | -4.0 | 2.9 | 6 | J |
| 14 | 471 | 7.5 | 106 | J | 7.8 | 3 | 319 | 3.6 | -2.6 | 1.8 | 7 | J |
| 15 | 447 | 5.7 | 80 | J | 10.2 | 11 | 327 | 8.2 | -3.8 | 4.2 | 1 | J |
| 16 | 419 | 8.8 | 56 | J | 9.2 | 10 | 334 | 8.0 | -2.8 | 3.1 | 1 | J |
| 17 | 406 | 15.7 | 49 | J | 8.0 | 11 | 328 | 6.5 | -3.2 | 2.9 | 1 | J |
| 18 | 387 | 16.3 | 59 | J | 7.4 | 4 | 336 | 6.7 | -2.6 | 1.5 | 1 | J |
| 19 | 373 | 21.8 | 41 | J | 8.3 | 7 | 342 | 7.4 | -2.0 | 1.6 | 3 | J |
| 20 | 376 | 18.1 | 45 | J | 8.3 | -2 | 343 | 7.7 | -2.4 | 0.3 | 2 | J |
| 21 | 368 | 21.4 | 50 | J | 8.2 | 10 | 331 | 6.5 | -3.2 | 2.1 | 3 | J |
| 22 | 377 | 23.1 | 47 | J | 8.5 | -1 | 326 | 6.8 | -4.5 | 0.8 | 2 | J |
| 23 | 386 | 25.0 | 58 | J | 10.1 | 12 | 293 | 3.0 | -6.6 | 3.0 | 6 | J |
| 24 | 383 | 23.3 | 69 | J | 8.9 | -24 | 344 | 6.2 | -2.3 | -2.5 | 6 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 381 | 27.3 | 92 | J | 5.6 | 54 | 360 | 2.4 | 0.7 | 3.2 | 4 | J |
| 2 | 400 | 27.3 | 78 | J | 6.4 | 15 | 293 | 1.5 | -3.3 | 2.0 | 5 | J |
| 3 | 399 | 19.9 | 80 | J | 9.4 | -14 | 331 | 7.7 | -4.7 | -0.8 | 2 | J |
| 4 | 407 | 20.1 | 79 | J | 9.8 | -3 | 340 | 8.5 | -3.1 | 0.6 | 4 | J |
| 5 | 388 | 21.6 | 113 | J | 8.3 | 12 | 8 | 7.6 | 1.6 | 1.1 | 4 | J |
| 6 | 393 | 23.2 | 92 | J | 9.7 | 11 | 8 | 8.7 | 1.9 | 1.0 | 4 | J |
| 7 | 396 | 22.4 | 98 | J | 9.9 | 1 | 14 | 8.9 | 2.0 | -0.9 | 4 | J |
| 8 | 399 | 20.0 | 81 | J | 10.0 | -18 | 7 | 9.2 | -0.6 | -3.1 | 3 | J |
| 9 | 390 | 21.1 | 99 | J | 9.3 | -5 | 7 | 8.4 | 0.5 | -1.2 | 4 | J |
| 10 | 402 | 22.1 | 75 | J | 10.6 | -43 | 334 | 6.2 | -6.1 | -3.6 | 5 | J |
| 11 | 405 | 22.2 | 70 | J | 11.9 | 4 | 303 | 6.0 | -7.2 | 5.9 | 4 | J |
| 12 | 416 | 28.2 | 84 | J | 11.5 | 58 | 322 | 4.0 | 1.9 | 8.5 | 6 | J |
| 13 | 431 | 29.8 | 117 | J | 13.3 | 42 | 279 | 1.1 | -2.5 | 9.4 | 10 | J |
| 14 | 464 | 15.1 | 143 | J | 16.0 | 42 | 274 | 0.8 | -4.5 | 14.5 | 5 | J |
| 15 | 502 | 10.3 | 211 | J | 15.1 | -11 | 304 | 5.4 | -8.0 | 2.2 | 11 | J |
| 16 | 491 | 12.0 | 285 | J | 15.4 | -30 | 315 | 9.2 | -11.6 | -2.8 | 3 | J |
| 17 | 516 | 12.0 | 306 | J | 13.2 | -43 | 340 | 7.3 | -5.2 | -5.6 | 8 | J |
| 18 | 525 | 13.0 | 328 | J | 12.7 | 42 | 309 | 4.8 | -3.2 | 8.4 | 7 | J |
| 19 | 504 | 12.4 | 246 | J | 12.5 | 7 | 305 | 5.2 | -6.8 | 3.3 | 8 | J |
| 20 | 515 | 10.4 | 302 | J | 12.4 | 26 | 285 | 2.4 | -7.5 | 6.6 | 7 | J |
| 21 | 576 | 5.9 | 147 | J | 7.0 | 21 | 292 | 2.0 | -4.3 | 3.0 | 4 | J |
| 22 | 581 | 5.2 | 115 | J | 7.0 | 5 | 282 | 0.9 | -4.0 | 1.2 | 5 | J |
| 23 | 577 | 5.5 | 114 | J | 6.4 | -3 | 300 | 2.1 | -3.7 | 0.5 | 5 | J |
| 24 | 561 | 5.2 | 106 | J | 6.1 | 22 | 350 | 4.7 | -0.4 | 2.0 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 583 | 5.1 | 130 | J | 6.3 | 61 | 319 | 1.5 | -0.5 | 3.9 | 5 | J |
| 2 | 548 | 4.9 | 146 | J | 6.1 | 11 | 335 | 4.2 | -1.7 | 1.4 | 4 | J |
| 3 | 584 | 5.3 | 131 | J | 6.2 | -12 | 268 | -0.1 | -4.2 | 0.4 | 5 | J |
| 4 | 553 | 5.7 | 126 | J | 7.0 | -19 | 306 | 3.1 | -4.6 | -0.3 | 4 | J |
| 5 | 556 | 5.4 | 100 | J | 6.9 | -18 | 312 | 2.5 | -3.0 | -0.0 | 6 | J |
| 6 | 555 | 5.8 | 116 | J | 6.9 | -17 | 307 | 3.3 | -4.6 | 0.4 | 4 | J |
| 7 | 573 | 6.2 | 117 | J | 7.0 | 47 | 281 | 0.8 | -1.4 | 5.7 | 4 | J |
| 8 | 544 | 6.0 | 123 | J | 6.7 | -9 | 320 | 3.4 | -2.8 | 0.9 | 5 | J |
| 9 | 554 | 6.5 | 141 | J | 6.6 | 34 | 319 | 2.5 | -0.6 | 3.1 | 5 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 564 | 5.7 | 82 | J | 6.7 | 7 | 279 | 0.9 | -5.1 | 2.9 | 3 | J |
| 18 | 549 | 5.6 | 90 | J | 6.7 | 11 | 290 | 2.1 | -5.1 | 3.1 | 2 | J |
| 19 | 533 | 6.3 | 106 | J | 6.6 | 7 | 294 | 2.4 | -5.0 | 2.3 | 3 | J |
| 20 | 533 | 6.0 | 95 | J | 6.3 | 26 | 313 | 3.2 | -2.7 | 3.1 | 4 | J |
| 21 | 562 | 6.6 | 86 | J | 6.6 | 34 | 266 | -0.3 | -3.5 | 3.7 | 4 | J |
| 22 | 512 | 6.2 | 66 | J | 6.5 | -5 | 344 | 5.0 | -1.5 | -0.2 | 4 | J |
| 23 | 514 | 6.2 | 65 | J | 6.9 | 8 | 342 | 4.8 | -1.4 | 1.0 | 5 | J |
| 24 | 562 | 6.2 | 67 | J | 7.2 | -12 | 248 | -2.5 | -6.2 | -0.1 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 549 | 6.0 | 75 | J | 6.7 | 3 | 257 | -1.4 | -5.8 | 1.6 | 3 | J |
| 2 | 507 | 6.1 | 68 | J | 6.5 | -13 | 317 | 4.0 | -3.9 | -0.3 | 3 | J |
| 3 | 516 | 6.2 | 77 | J | 6.4 | 1 | 311 | 3.5 | -3.8 | 1.3 | 4 | J |
| 4 | 517 | 6.6 | 77 | J | 7.2 | -20 | 299 | 2.8 | -5.5 | -0.3 | 4 | J |
| 5 | 508 | 6.5 | 72 | J | 7.0 | 18 | 309 | 3.7 | -3.5 | 3.5 | 3 | J |
| 6 | 509 | 6.8 | 89 | J | 7.4 | -12 | 305 | 3.4 | -4.9 | 1.0 | 4 | J |
| 7 | 518 | 7.1 | 102 | J | 8.3 | 6 | 299 | 3.5 | -5.1 | 3.7 | 4 | J |
| 8 | 548 | 7.5 | 104 | J | 9.0 | 13 | 274 | 0.6 | -5.9 | 5.8 | 3 | J |
| 9 | 555 | 9.0 | 195 | J | 7.0 | -21 | 306 | 2.2 | -3.3 | 0.4 | 6 | J |
| 10 | 570 | 8.7 | 199 | J | 6.6 | 45 | 277 | 0.4 | -1.0 | 5.0 | 4 | J |
| 11 | 575 | 9.0 | 184 | J | 7.0 | 39 | 282 | 1.0 | -1.7 | 5.9 | 3 | J |
| 12 | 570 | 8.8 | 174 | J | 6.3 | 1 | 285 | 1.2 | -3.8 | 2.6 | 4 | J |
| 13 | 555 | 9.0 | 185 | J | 6.2 | 7 | 333 | 3.7 | -1.3 | 1.4 | 5 | J |
| 14 | 573 | 8.4 | 167 | J | 6.3 | -27 | 298 | 2.0 | -4.4 | 0.1 | 4 | J |
| 15 | 584 | 8.2 | 197 | J | 4.8 | 5 | 304 | 1.5 | -1.9 | 1.3 | 4 | J |
| 16 | 579 | 7.9 | 211 | J | 6.2 | -25 | 349 | 5.4 | -2.1 | -1.9 | 1 | J |
| 17 | 581 | 7.0 | 189 | J | 5.8 | -7 | 357 | 4.8 | -0.5 | -0.4 | 3 | J |
| 18 | 632 | 5.6 | 154 | J | 5.3 | -9 | 214 | -3.1 | -2.2 | 0.1 | 4 | J |
| 19 | 628 | 4.7 | 119 | J | 5.1 | -2 | 229 | -2.6 | -2.9 | 0.7 | 3 | J |
| 20 | 612 | 5.1 | 124 | J | 5.2 | 48 | 199 | -1.3 | -0.0 | 1.5 | 5 | J |
| 21 | 553 | 4.6 | 119 | J | 5.4 | 4 | 6 | 5.1 | 0.6 | 0.2 | 2 | J |
| 22 | 561 | 4.7 | 139 | J | 5.8 | -32 | 303 | 2.3 | -3.9 | -1.8 | 3 | J |
| 23 | 531 | 4.0 | 162 | J | 5.8 | -2 | 326 | 4.1 | -2.8 | 0.4 | 3 | J |
| 24 | 564 | 3.6 | 100 | J | 5.7 | -8 | 311 | 3.2 | -3.7 | 0.1 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 553 | 3.5 | 86 | J | 5.8 | 4 | 305 | 2.5 | -3.4 | 1.1 | 4 | J |
| 2 | 555 | 3.7 | 113 | J | 5.3 | -13 | 321 | 3.3 | -2.9 | -0.3 | 3 | J |
| 3 | 562 | 3.9 | 106 | J | 5.3 | 14 | 315 | 3.2 | -2.8 | 2.0 | 2 | J |
| 4 | 558 | 3.8 | 95 | J | 5.4 | 7 | 319 | 3.7 | -2.9 | 1.7 | 2 | J |
| 5 | 555 | 3.7 | 106 | J | 5.0 | 7 | 315 | 3.2 | -2.8 | 1.8 | 2 | J |
| 6 | 556 | 4.1 | 98 | J | 4.9 | 1 | 318 | 3.5 | -2.8 | 1.4 | 1 | J |
| 7 | 553 | 4.0 | 89 | J | 5.3 | 8 | 323 | 4.0 | -2.3 | 2.1 | 1 | J |
| 8 | 541 | 3.4 | 91 | J | 5.0 | 29 | 335 | 3.7 | -0.3 | 2.8 | 2 | J |
| 9 | 541 | 3.3 | 118 | J | 4.2 | 33 | 330 | 3.0 | -0.2 | 2.8 | 1 | J |
| 10 | 530 | 3.3 | 107 | J | 3.9 | 2 | 318 | 2.6 | -1.9 | 1.4 | 2 | J |
| 11 | 510 | 3.6 | 58 | J | 4.4 | 0 | 323 | 3.4 | -2.1 | 1.5 | 1 | J |
| 12 | 506 | 3.3 | 69 | J | 4.7 | 0 | 321 | 3.3 | -2.3 | 1.5 | 2 | J |
| 13 | 483 | 3.6 | 90 | J | 4.9 | -6 | 333 | 4.3 | -2.1 | 0.7 | 1 | J |
| 14 | 484 | 4.8 | 108 | J | 4.6 | 7 | 311 | 2.9 | -2.6 | 2.2 | 1 | J |
| 15 | 474 | 5.1 | 62 | J | 5.0 | 8 | 334 | 3.5 | -1.2 | 1.3 | 3 | J |
| 16 | 459 | 4.7 | 39 | J | 5.6 | 6 | 346 | 5.1 | -0.9 | 1.0 | 2 | J |
| 17 | 461 | 4.7 | 51 | J | 4.8 | 7 | 335 | 4.2 | -1.6 | 1.3 | 1 | J |
| 18 | 468 | 4.7 | 55 | J | 5.0 | 21 | 350 | 4.1 | -0.2 | 1.8 | 2 | J |
| 19 | 470 | 5.4 | 67 | J | 4.4 | 21 | 335 | 2.9 | -0.9 | 1.6 | 3 | J |
| 20 | 455 | 3.8 | 48 | J | 4.2 | -8 | 6 | 3.6 | 0.2 | -0.6 | 1 | J |
| 21 | 457 | 4.0 | 45 | J | 3.9 | 1 | 355 | 3.6 | -0.3 | 0.1 | 1 | J |
| 22 | 465 | 5.9 | 54 | J | 4.3 | 21 | 298 | 1.8 | -3.1 | 2.2 | 1 | J |
| 23 | 463 | 5.7 | 47 | J | 4.6 | 21 | 311 | 2.6 | -2.7 | 2.1 | 2 | J |
| 24 | 454 | 5.2 | 42 | J | 4.8 | 23 | 353 | 3.8 | -0.1 | 1.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 457 | 5.4 | 42 | J | 4.9 | 44 | 352 | 3.3 | 0.2 | 3.3 | 1 | J |
| 2 | | | | | | | | | | | | |
| 3 | 435 | 5.5 | 69 | J | 5.1 | 17 | 1 | 4.7 | 0.5 | 1.3 | 1 | J |
| 4 | 434 | 5.3 | 72 | J | 5.3 | 18 | 6 | 4.5 | 0.9 | 1.2 | 2 | J |
| 5 | 444 | 6.3 | 83 | J | | | | | | | | |
| 6 | 421 | 5.9 | 51 | J | | | | | | | | |
| 7 | 411 | 8.7 | 85 | J | | | | | | | | |
| 8 | 450 | 7.0 | 57 | J | | | | | | | | |
| 9 | 431 | 7.2 | 80 | J | | | | | | | | |
| 10 | 428 | 7.0 | 53 | J | | | | | | | | |
| 11 | 441 | 10.1 | 102 | J | | | | | | | | |
| 12 | 403 | 12.9 | 116 | J | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 360 | 10.2 | 110 | J | | | | | | | | |
| 16 | 376 | 11.6 | 210 | J | | | | | | | | |
| 17 | 400 | 11.3 | 157 | J | | | | | | | | |
| 18 | 365 | 10.5 | 232 | J | | | | | | | | |
| 19 | 385 | 9.3 | 235 | J | | | | | | | | |
| 20 | 385 | 8.1 | 182 | J | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 366 | 6.8 | 114 | J | | | | | | | | |
| 23 | 385 | 5.8 | 141 | J | | | | | | | | |
| 24 | 387 | 5.4 | 148 | J | | | | | | | | |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 422 | 8.8 | 94 | J | | | | | | | | |
| 23 | 406 | 8.7 | 67 | J | | | | | | | | |
| 24 | 401 | 9.0 | 66 | J | 7.3 | -4 | 156 | -5.7 | 2.4 | -0.9 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 12.0 | 49 | J | 7.9 | 21 | 113 | -2.8 | 6.9 | 1.4 | 2 | J |
| 2 | 395 | 14.7 | 61 | J | 8.3 | 3 | 124 | -4.4 | 6.5 | -1.1 | 2 | J |
| 3 | 388 | 15.8 | 55 | J | 9.5 | 6 | 121 | -4.7 | 7.7 | -1.2 | 3 | J |
| 4 | 389 | 16.4 | 59 | J | 9.6 | -5 | 131 | -6.1 | 6.4 | -3.0 | 2 | J |
| 5 | 406 | 19.3 | 52 | J | 8.3 | 40 | 83 | 0.7 | 7.0 | 2.3 | 4 | J |
| 6 | 410 | 29.8 | 37 | J | 9.4 | 31 | 94 | -0.5 | 9.0 | 0.9 | 3 | J |
| 7 | 415 | 31.3 | 33 | J | 10.9 | 27 | 85 | 0.8 | 10.5 | -0.1 | 3 | J |
| 8 | 413 | 22.6 | 30 | J | 12.5 | -15 | 101 | -2.2 | 8.2 | -8.3 | 4 | J |
| 9 | 413 | 26.5 | 42 | J | 10.8 | -29 | 107 | -2.6 | 4.6 | -8.6 | 4 | J |
| 10 | 416 | 13.1 | 41 | J | 14.3 | 64 | 68 | 2.1 | 10.8 | 6.9 | 6 | J |
| 11 | | | | | | | | | | | | |
| 12 | 451 | 17.0 | 69 | J | 14.5 | -16 | 124 | -7.7 | 7.5 | -9.5 | 2 | J |
| 13 | 456 | 17.6 | 95 | J | 13.4 | 4 | 102 | -2.7 | 11.5 | -5.9 | 2 | J |
| 14 | 470 | 10.3 | 95 | J | 14.3 | -5 | 104 | -3.3 | 11.1 | -7.7 | 3 | J |
| 15 | 469 | 7.1 | 103 | J | 14.6 | -14 | 117 | -6.4 | 9.6 | -8.8 | 2 | J |
| 16 | 442 | 5.8 | 95 | J | 14.1 | -14 | 133 | -9.1 | 7.6 | -7.1 | 2 | J |
| 17 | 441 | 7.1 | 96 | J | 13.3 | -10 | 125 | -6.8 | 8.3 | -5.5 | 5 | J |
| 18 | 440 | 7.3 | 116 | J | 13.7 | -8 | 134 | -9.2 | 8.5 | -4.8 | 2 | J |
| 19 | 430 | 11.2 | 113 | J | 13.2 | -12 | 137 | -9.2 | 7.6 | -4.9 | 3 | J |
| 20 | 427 | 14.1 | 132 | J | 12.9 | -14 | 134 | -8.6 | 8.0 | -5.1 | 2 | J |
| 21 | 435 | 14.1 | 213 | J | 12.3 | -14 | 148 | -10.0 | 5.5 | -4.1 | 1 | J |
| 22 | 422 | 16.9 | 106 | J | 15.1 | -23 | 146 | -11.4 | 6.5 | -7.1 | 2 | J |
| 23 | 420 | 13.0 | 45 | J | 16.1 | -26 | 159 | -13.4 | 3.9 | -7.8 | 1 | J |
| 24 | 413 | 11.8 | 61 | J | 15.7 | -25 | 150 | -12.3 | 5.8 | -7.8 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 500 | 5.3 | 81 | J | 5.4 | -15 | 163 | -4.8 | 1.2 | -1.6 | 1 | J |
| 2 | 501 | 4.9 | 79 | J | 4.9 | 4 | 161 | -4.2 | 1.5 | -0.0 | 2 | J |
| 3 | 502 | 5.2 | 68 | J | 4.9 | 7 | 144 | -3.8 | 2.8 | -0.2 | 1 | J |
| 4 | 507 | 4.8 | 61 | J | 4.6 | 4 | 132 | -3.0 | 3.3 | -0.8 | 1 | J |
| 5 | 500 | 4.4 | 69 | J | 4.3 | 2 | 124 | -2.3 | 3.2 | -1.1 | 1 | J |
| 6 | 495 | 4.6 | 105 | J | 3.7 | -9 | 129 | -2.1 | 2.1 | -1.6 | 2 | J |
| 7 | 464 | 4.4 | 68 | J | 3.9 | 18 | 139 | -2.7 | 2.6 | -0.1 | 0 | J |
| 8 | 465 | 4.4 | 52 | J | 3.6 | 5 | 145 | -2.3 | 1.5 | -0.6 | 2 | J |
| 9 | 474 | 4.3 | 55 | J | 4.1 | 25 | 33 | 2.2 | 1.9 | 0.3 | 3 | J |
| 10 | 462 | 4.3 | 55 | J | 3.5 | 19 | 75 | 0.7 | 2.6 | -0.6 | 2 | J |
| 11 | 473 | 4.6 | 50 | J | 3.7 | 3 | 46 | 2.3 | 2.1 | -1.1 | 2 | J |
| 12 | 469 | 4.8 | 45 | J | 3.8 | 28 | 29 | 2.6 | 2.1 | 0.6 | 2 | J |
| 13 | 457 | 4.8 | 45 | J | 3.4 | 31 | 80 | 0.5 | 3.3 | 0.0 | 1 | J |
| 14 | 456 | 5.2 | 45 | J | 3.3 | 27 | 79 | 0.5 | 3.0 | -0.1 | 1 | J |
| 15 | 455 | 4.6 | 46 | J | 3.6 | 12 | 107 | -0.9 | 2.9 | -0.7 | 2 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 416 | 5.1 | 35 | J | 3.7 | 56 | 164 | -1.7 | 1.0 | 2.5 | 2 | J |
| 22 | 413 | 5.6 | 34 | J | 3.6 | 64 | 221 | -1.1 | -0.4 | 3.1 | 1 | J |
| 23 | 409 | 5.3 | 42 | J | 3.8 | 2 | 201 | -3.1 | -1.1 | 0.3 | 2 | J |
| 24 | 407 | 5.6 | 42 | J | 4.1 | 35 | 180 | -3.1 | 0.4 | 2.1 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 13.0 | 34 | J | 4.4 | 50 | 27 | 1.9 | 1.4 | 2.3 | 3 | J |
| 2 | 361 | 12.2 | 61 | J | 4.8 | 22 | 1 | 4.2 | 0.4 | 1.6 | 2 | J |
| 3 | 361 | 13.8 | 54 | J | 3.8 | 9 | 340 | 3.3 | -1.0 | 0.9 | 1 | J |
| 4 | 356 | 13.8 | 48 | J | 3.6 | 16 | 11 | 3.1 | 0.9 | 0.7 | 1 | J |
| 5 | 359 | 15.3 | 41 | J | 3.6 | 27 | 349 | 2.9 | 0.0 | 1.6 | 2 | J |
| 6 | 366 | 18.0 | 32 | J | 4.0 | 26 | 351 | 2.1 | 0.1 | 1.1 | 3 | J |
| 7 | 369 | 18.3 | 30 | J | 4.7 | 26 | 102 | -0.8 | 4.4 | -0.1 | 2 | J |
| 8 | 366 | 20.7 | 37 | J | 4.3 | 37 | 32 | 2.6 | 2.6 | 1.2 | 2 | J |
| 9 | 378 | 37.6 | 33 | J | 4.7 | 44 | 2 | 2.4 | 1.3 | 2.0 | 4 | J |
| 10 | 379 | 59.6 | 34 | L | 6.2 | 0 | 324 | 3.9 | -2.4 | 1.5 | 5 | J |
| 11 | 369 | 29.6 | 57 | L | 10.7 | -19 | 322 | 7.4 | -6.6 | 0.4 | 4 | J |
| 12 | | | | | 16.2 | 21 | 311 | 8.9 | -6.0 | 9.9 | 7 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 587 | 12.5 | 372 | L | 11.6 | 22 | 25 | 8.8 | 5.2 | 2.2 | 5 | J |
| 18 | 598 | 10.1 | 375 | L | 10.1 | 36 | 24 | 7.2 | 4.8 | 4.5 | 3 | J |
| 19 | 588 | 8.5 | 390 | L | 10.5 | 5 | 350 | 9.9 | -1.5 | 1.3 | 3 | J |
| 20 | 588 | 11.6 | 408 | L | 9.3 | -9 | 341 | 8.0 | -3.0 | -0.7 | 4 | J |
| 21 | 559 | 11.2 | 341 | L | 8.0 | -4 | 308 | 4.3 | -5.5 | 0.6 | 5 | J |
| 22 | 523 | 19.5 | 263 | L | 4.3 | 35 | 199 | -1.0 | -0.2 | 0.8 | 4 | J |
| 23 | 516 | 18.0 | 212 | L | 7.2 | 27 | 46 | 2.7 | 3.0 | 1.5 | 6 | J |
| 24 | 567 | 11.6 | 285 | L | 12.3 | -22 | 318 | 5.5 | -5.4 | -2.1 | 9 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 9.4 | 69 | J | 7.3 | 2 | 155 | -6.1 | 2.8 | -0.3 | 2 | J |
| 2 | 395 | 11.2 | 70 | J | 5.8 | -14 | 115 | -1.3 | 2.6 | -1.4 | 5 | J |
| 3 | 405 | 13.7 | 78 | J | 4.8 | -11 | 48 | 3.0 | 2.9 | -1.7 | 2 | J |
| 4 | 392 | 14.0 | 74 | J | 4.8 | -23 | 79 | 0.8 | 3.1 | -2.9 | 2 | J |
| 5 | 394 | 13.5 | 67 | J | 4.7 | -20 | 64 | 1.8 | 2.8 | -2.7 | 2 | J |
| 6 | 385 | 14.1 | 71 | J | 3.7 | -7 | 75 | 0.8 | 2.7 | -1.7 | 2 | J |
| 7 | 392 | 13.8 | 59 | J | 5.9 | 11 | 45 | 3.7 | 3.8 | -0.9 | 2 | J |
| 8 | 385 | 12.4 | 45 | J | 6.6 | 55 | 46 | 2.5 | 4.8 | 3.1 | 2 | J |
| 9 | 381 | 13.3 | 32 | J | 6.3 | 54 | 56 | 2.0 | 5.1 | 2.6 | 2 | J |
| 10 | 378 | 13.0 | 31 | J | 6.3 | 13 | 61 | 2.7 | 4.8 | -1.6 | 3 | J |
| 11 | 381 | 14.4 | 31 | J | 6.0 | 18 | 59 | 2.7 | 4.8 | -1.1 | 2 | J |
| 12 | 379 | 15.0 | 27 | J | 6.7 | 26 | 62 | 2.4 | 5.2 | -0.4 | 3 | J |
| 13 | 379 | 16.1 | 33 | J | 7.6 | 26 | 102 | -1.3 | 6.8 | -0.6 | 3 | J |
| 14 | 375 | 15.3 | 33 | J | 7.4 | -8 | 113 | -2.7 | 5.1 | -4.0 | 2 | J |
| 15 | 357 | 12.1 | 44 | J | 7.7 | -21 | 133 | -4.5 | 3.1 | -4.5 | 3 | J |
| 16 | 382 | 9.1 | 46 | J | 7.5 | -12 | 129 | -2.6 | 2.5 | -2.1 | 6 | J |
| 17 | 387 | 9.1 | 40 | J | 7.6 | 18 | 85 | 0.5 | 6.2 | -0.4 | 4 | J |
| 18 | 381 | 7.2 | 44 | J | 8.0 | 11 | 132 | -4.8 | 5.5 | -0.4 | 3 | J |
| 19 | 374 | 7.2 | 34 | J | 7.3 | 11 | 149 | -6.0 | 3.8 | 0.3 | 1 | J |
| 20 | 404 | 9.4 | 50 | J | 6.9 | 11 | 109 | -1.9 | 5.8 | -0.2 | 3 | J |
| 21 | 386 | 9.8 | 48 | J | 7.4 | 4 | 125 | -3.9 | 5.6 | -0.7 | 2 | J |
| 22 | 392 | 10.8 | 37 | J | 7.6 | 14 | 107 | -2.0 | 6.8 | 0.5 | 3 | J |
| 23 | 374 | 12.0 | 39 | J | 6.8 | 13 | 106 | -1.7 | 6.1 | 0.4 | 2 | J |
| 24 | 384 | 12.1 | 41 | J | 6.4 | 24 | 107 | -1.6 | 5.6 | 1.4 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 419 | 11.5 | 85 | J | 15.8 | -33 | 151 | -11.4 | 4.5 | -9.5 | 3 | J |
| 2 | 472 | 12.4 | 195 | J | 10.5 | 29 | 158 | -3.7 | 2.0 | 1.8 | 10 | J |
| 3 | 423 | 11.1 | 210 | J | 13.2 | -27 | 184 | -11.3 | -2.3 | -5.3 | 4 | J |
| 4 | 425 | 11.3 | 173 | J | 13.7 | -25 | 173 | -12.1 | -0.4 | -5.9 | 2 | J |
| 5 | 438 | 14.6 | 213 | J | 13.9 | -30 | 182 | -11.3 | -2.8 | -5.9 | 4 | J |
| 6 | 444 | 13.6 | 211 | J | 13.8 | -23 | 163 | -11.0 | 1.0 | -5.8 | 6 | J |
| 7 | 445 | 12.4 | 223 | J | 12.3 | -5 | 133 | -5.8 | 5.2 | -3.6 | 9 | J |
| 8 | 457 | 11.7 | 238 | J | 13.8 | -27 | 146 | -9.4 | 2.6 | -8.2 | 5 | J |
| 9 | 524 | 14.7 | 447 | J | 10.8 | 8 | 178 | -6.6 | 0.7 | 0.7 | 9 | J |
| 10 | 546 | 14.5 | 342 | J | 9.5 | -39 | 125 | -3.3 | 1.4 | -6.5 | 6 | J |
| 11 | 513 | 13.6 | 324 | J | 8.2 | -29 | 147 | -5.5 | 1.0 | -5.0 | 4 | J |
| 12 | 493 | 12.6 | 237 | J | 11.3 | -22 | 172 | -9.4 | -0.9 | -3.9 | 4 | J |
| 13 | 502 | 12.0 | 203 | J | 12.3 | -32 | 147 | -8.3 | 1.4 | -8.0 | 4 | J |
| 14 | 500 | 10.4 | 177 | J | 10.9 | -24 | 145 | -7.7 | 2.7 | -6.3 | 4 | J |
| 15 | 502 | 10.0 | 172 | J | 7.5 | -26 | 122 | -3.3 | 3.3 | -5.1 | 3 | J |
| 16 | 511 | 9.2 | 168 | J | 8.3 | -4 | 97 | -1.0 | 6.9 | -3.7 | 2 | J |
| 17 | 512 | 7.9 | 100 | J | 8.2 | 10 | 66 | 3.2 | 7.1 | -1.3 | 2 | J |
| 18 | 505 | 6.7 | 73 | J | 7.9 | -41 | 164 | -4.6 | -0.0 | -4.4 | 5 | J |
| 19 | 514 | 6.3 | 106 | J | 6.6 | -34 | 180 | -5.1 | -0.9 | -3.3 | 2 | J |
| 20 | 519 | 6.0 | 122 | J | 5.5 | -16 | 149 | -3.6 | 1.8 | -1.7 | 3 | J |
| 21 | 513 | 5.7 | 92 | J | 5.0 | -1 | 190 | -4.1 | -0.7 | 0.1 | 3 | J |
| 22 | 513 | 6.2 | 102 | J | 5.3 | -4 | 190 | -4.0 | -0.7 | -0.2 | 3 | J |
| 23 | 520 | 5.9 | 120 | J | 5.0 | 26 | 148 | -2.5 | 1.8 | 1.2 | 4 | J |
| 24 | 511 | 5.3 | 81 | J | 4.8 | -12 | 191 | -3.9 | -0.9 | -0.7 | 2 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 411 | 6.1 | 30 | J | 4.3 | 56 | 123 | -1.2 | 2.4 | 2.7 | 2 | J |
| 2 | 408 | 6.3 | 36 | J | 4.1 | 33 | 215 | -2.3 | -1.1 | 2.1 | 2 | J |
| 3 | 409 | 6.4 | 41 | J | 4.2 | -39 | 185 | -2.9 | -0.9 | -2.2 | 2 | J |
| 4 | 409 | 6.8 | 32 | J | 4.6 | -34 | 184 | -3.6 | -1.0 | -2.3 | 1 | J |
| 5 | 403 | 7.5 | 41 | J | 5.0 | -19 | 169 | -4.5 | 0.2 | -1.8 | 1 | J |
| 6 | 406 | 7.7 | 33 | J | 5.0 | 11 | 130 | -2.9 | 3.5 | -0.6 | 2 | J |
| 7 | 411 | 8.8 | 30 | J | 4.6 | 39 | 100 | -0.6 | 4.2 | 0.9 | 2 | J |
| 8 | 405 | 7.9 | 28 | J | 4.5 | 44 | 113 | -1.1 | 3.7 | 1.1 | 2 | J |
| 9 | 407 | 8.6 | 31 | J | 4.0 | 44 | 136 | -1.8 | 2.7 | 1.1 | 2 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 395 | 10.1 | 40 | J | 4.7 | 26 | 130 | -2.4 | 3.3 | 0.0 | 2 | J |
| 13 | 398 | 11.0 | 40 | J | 5.0 | 33 | 137 | -2.9 | 3.6 | 0.8 | 1 | J |
| 14 | 397 | 11.4 | 37 | J | 5.3 | 47 | 149 | -3.1 | 3.5 | 2.5 | 1 | J |
| 15 | 391 | 12.8 | 41 | J | 5.2 | 34 | 145 | -3.5 | 3.4 | 1.5 | 1 | J |
| 16 | 375 | 16.4 | 21 | J | 3.5 | 9 | 325 | 2.5 | -1.4 | 1.2 | 2 | J |
| 17 | 375 | 16.4 | 20 | J | 4.0 | 35 | 316 | 1.8 | -1.0 | 2.3 | 2 | J |
| 18 | 370 | 16.3 | 18 | J | 3.6 | 14 | 315 | 2.1 | -1.7 | 1.3 | 2 | J |
| 19 | 368 | 13.6 | 23 | J | 4.3 | 10 | 1 | 4.1 | 0.3 | 0.7 | 1 | J |
| 20 | 366 | 13.5 | 29 | J | 4.5 | -12 | 337 | 3.8 | -1.8 | -0.5 | 2 | J |
| 21 | 367 | 12.2 | 36 | J | 4.8 | -34 | 327 | 3.2 | -2.5 | -2.1 | 1 | J |
| 22 | 361 | 11.6 | 60 | J | 4.5 | -12 | 331 | 3.5 | -2.1 | -0.5 | 2 | J |
| 23 | 361 | 11.5 | 36 | J | 4.9 | 39 | 352 | 3.3 | -0.0 | 2.7 | 2 | J |
| 24 | 361 | 13.5 | 59 | J | 4.6 | 8 | 360 | 3.8 | 0.1 | 0.5 | 3 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 13.1 | -12 | 291 | 4.4 | -11.7 | -0.4 | 2 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 557 | 13.7 | 294 | L | 7.9 | -17 | 339 | 7.1 | -3.5 | -0.7 | 1 | J |
| 9 | 571 | 14.0 | 285 | L | 8.1 | -25 | 340 | 6.4 | -3.6 | -1.5 | 3 | J |
| 10 | 565 | 12.4 | 274 | L | 9.3 | -11 | 343 | 8.4 | -3.1 | -0.1 | 3 | J |
| 11 | | | | | 11.3 | -17 | 344 | 10.3 | -4.2 | -1.2 | 2 | J |
| 12 | 613 | 6.8 | 263 | L | 9.8 | -13 | 332 | 7.4 | -4.4 | 0.4 | 5 | J |
| 13 | 615 | 6.4 | 238 | L | 8.9 | -23 | 350 | 8.0 | -3.0 | -2.2 | 1 | J |
| 14 | 616 | 6.7 | 305 | L | 6.4 | 20 | 300 | 2.2 | -2.5 | 3.2 | 4 | J |
| 15 | 603 | 7.4 | 354 | L | 5.3 | -4 | 264 | -0.3 | -2.6 | 1.0 | 5 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 477 | 14.5 | 150 | L | 5.3 | 19 | 47 | 1.4 | 1.6 | 0.4 | 5 | J |
| 22 | 492 | 12.9 | 179 | L | 6.5 | 24 | 153 | -5.1 | 3.0 | 2.1 | 2 | J |
| 23 | | | | | 8.2 | 10 | 255 | -2.1 | -7.5 | 2.6 | 1 | J |
| 24 | 498 | 10.6 | 193 | L | 6.0 | -4 | 307 | 2.7 | -3.6 | 0.3 | 4 | J |

10/23/83 – 11/03/83

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HR    VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                    SC                   1000  SC  MAGN LAT LON                    SC

                          OCT. 23, 1983                  296                        OCT. 28, 1983                   301

 1    505  7.8 202  L
 2    516  7.7 216  L
 3
 4
 5
 6
 7
 8                                                                 311 16.0  35  J
 9                                                                 309 15.0  29  J     4.9  27 255  -1.0  -2.3   3.6  2  J
10                                                                 299 14.0  33  J     5.3  25 273   0.2  -2.5   3.7  3  J
11                                                                 304 14.1  29  J     5.4  20 261  -0.7  -3.0   3.8  2  J
12                                                                 305 15.1  33  J     5.6  11 273   0.3  -3.7   3.3  3  J
13                                                                 310 15.7  27  J     5.6  21 251  -1.6  -3.0   3.8  2  J
14                                                                 310 16.6  27  J     5.7  12 255  -1.4  -4.1   3.4  1  J
15                                                                 313 19.9  28  J     6.2  12 253  -1.7  -4.6   3.6  1  J
16                                                                 329 26.5  35  J     7.5   7 249  -2.3  -5.4   3.0  4  J
17                                                                 352 46.8  65  J    12.7  56 256  -1.4  -2.5  10.1  7  J
18                                                                 351 55.0  70  J    14.1  -7 284   3.2 -12.8   2.0  5  J
19                                                                 347 55.4  57  J    17.3   6 272   0.6 -15.5   5.5  5  J
20                                                                 346 53.1  54  J    18.0  46 268  -0.4  -8.3  12.9  9  J
21                                                                 354 58.0  40  J    16.9  45 262  -1.4  -8.5  11.9  8  J
22                                                                 366 46.4  46  J    17.8 -31 301   3.6  -6.6  -3.3 16  J
23                                                                 379 21.0  92  J    21.3 -46  92  -0.4  10.6 -14.4 12  J
24                                                                 406 15.3 148  J    20.5 -23 101  -3.3  15.7  -9.6  8  J

                          OCT. 29, 1983                  302                        OCT. 30, 1983                   303

 1                                                                 513  6.1 142  J     7.5 -10 125  -3.5   4.8  -1.8  4  J
 2    446  8.4 347  J    19.0   4 128 -11.1  14.1  -1.5  5  J      492  6.5 149  J     7.3 -15 164  -6.4   1.5  -2.1  2  J
 3    465  7.0 201  J    19.9  14 133 -12.8  14.4   1.3  4  J      502  5.3 129  J     7.1 -14 127  -3.9   4.7  -2.8  2  J
 4    503  8.3 240  J    18.9  15 124  -9.5  14.8   0.3  6  J      509  5.6 117  J     7.0  -5 108  -2.1   6.0  -2.4  2  J
 5    516  9.9 273  J    17.7  15 131 -10.6  13.0  -0.1  5  J
 6    511 10.7 250  J    16.6  11 139 -11.5  10.3  -1.2  6  J
 7    530 11.1 317  J    16.9   2 115  -6.8  13.3  -5.8  5  J
 8    504 11.1 253  J    15.9  20 136 -10.1  11.1  -0.1  5  J
 9    519 13.0 296  J    15.8  15 113  -5.4  12.8  -3.1  7  J      476  5.6 133  J
10    531 11.8 240  J    15.8   8 104  -3.3  12.4  -5.2  7  J      494  5.4 113  J     5.6 -28  92  -0.1   2.5  -4.1  3  J
11    501 11.9 234  J    16.4   5 111  -5.6  13.2  -6.4  4  J      494  5.4  99  J     5.2 -36  83   0.4   1.7  -4.0  3  J
12    489 12.2 192  J    14.4   4 145  -8.8   5.7  -2.5  9  J                         5.4  -9  94  -0.4   4.2  -3.4  0  J
13    493 11.5 205  J    13.6  12 129  -7.3   9.0  -2.2  7  J      477  7.1  92  J     5.1 -23 106  -1.1   2.5  -3.2  3  J
14    502 11.8 198  J    12.7 -32 164  -8.7  -0.4  -6.2  7  J      485  7.6  73  J     5.3 -36  70   1.2   1.7  -3.6  3  J
15    495 11.0 177  J    11.7  -9 199  -9.5  -3.6  -0.1  6  J      511  8.0 154  J     5.6 -21  46   3.4   2.4  -3.1  2  J
16    499  9.8 197  J    10.8   7 158  -7.9   3.4  -0.2  6  J
17    521  9.8 225  J    11.1 -12 223  -7.4  -7.2   0.2  4  J      456  7.0  89  J     6.7 -49 150  -3.6   0.4  -5.2  2  J
18    512  9.7 203  J    10.8 -27 175  -7.2  -0.4  -3.7  7  J      431  5.7  54  J     7.6 -28 133  -4.3   3.6  -4.5  2  J
19    500  8.9 135  J    10.8 -28 162  -8.2   1.5  -5.1  4  J      445  6.3  46  J     7.4 -14  99  -1.0   5.5  -2.8  4  J
20    489  7.5 113  J     8.7   4 183  -8.2  -0.3   0.6  3  J      477  2.8  58  J     7.4  24  45   4.7   5.2   2.0  1  J
21    545  7.0 162  J     8.4 -26  97  -0.8   5.9  -4.2  4  J      488  3.4  73  J     6.5  17  41   4.3   4.0   1.2  3  J
22    515  6.5 137  J     8.0   5 141  -4.6   3.8   0.0  5  J      455  3.3  63  J     5.9  15  74   1.4   5.1   0.7  3  J
23    519  6.4 133  J     7.8 -25 163  -4.3   1.0  -2.3  6  J      455  3.3  58  J     5.6   6  74   1.4   4.8  -0.1  3  J
24    510  6.0 131  J     7.5 -12 128  -4.1   5.0  -2.1  3  J      484  3.6  54  J     5.6   1  40   3.5   2.9  -0.3  3  J

                          OCT. 31, 1983                  304                        NOV.  1, 1983                   305

 1    482  3.6  48  J     5.7  -5  61   2.5   4.3  -1.1  2  J      389  8.4  47  J     5.6  16 135  -2.9   3.0   0.7  4  J
 2    448  4.1  47  J     5.3  20  89   0.1   4.0   0.7  3  J      394  9.1  29  J     5.7 -50  60   1.8   2.3  -4.8  1  J
 3    400  5.1  63  J     5.8  26 185  -4.0   0.1   2.0  4  J                         5.4 -46  81   0.6   2.6  -4.5  1  C
 4    412  5.9  37  J     5.7  11 117  -2.2   4.5  -0.3  3  J                         5.1  -7 129  -2.1   2.4  -1.1  4  C
 5    415  7.3  43  J     5.7  66 150  -1.7   2.3   3.7  3  J                         5.3 -15 121  -2.4   3.4  -2.5  2  C
 6    413 10.0  96  J     5.2 -14 118  -2.2   3.4  -2.7  2  J      364 10.3  37  J     5.7 -10 138  -4.0   2.9  -2.2  2  J
 7    409  7.8  56  J     6.1 -18 121  -2.4   2.9  -3.0  4  J      369 11.7  33  J     6.1   3 143  -4.1   2.9  -1.1  3  J
 8    413  7.0  58  J     6.3 -43 173  -3.0  -1.0  -2.7  5  J      368 13.2  37  J     6.9  -7 142  -4.1   2.6  -2.1  4  J
 9    408  6.0  48  J     6.7 -33 151  -4.5   0.5  -4.2  2  J      352 15.3  52  J     8.2 -11 153  -6.9   2.3  -3.0  2  J
10    406  6.0  31  J     7.5 -33 137  -4.6   1.6  -5.7  1  J      363 20.2  29  J     7.6 -28 121  -3.4   3.1  -5.8  2  J
11    415  8.2  30  J     6.1  37  80   0.8   6.0   0.7  0  J      355 27.1  19  J     4.7 -41 102  -0.7   1.4  -4.2  1  J
12    425  6.8  34  J     6.3  25  58   2.9   5.3  -0.1  2  J      346 23.8  19  J     5.7 -37  92  -0.2   2.2  -5.2  1  J
13    422  6.4  35  J     6.6  12  51   3.9   4.9  -1.2  2  J      364 21.9  22  J     5.4 -48   2   2.2  -1.1  -2.2  4  J
14    420  6.8  42  J     6.7  17  54   3.3   4.9  -0.5  3  J      366 17.4  36  J     6.2  -4 314   4.2  -4.1   1.6  1  J
15    428  4.2  49  J     6.3  12  78   0.7   3.1  -0.6  5  J      364 18.1  50  J     5.9  -2 332   4.9  -2.4   0.9  2  J
16    408  3.8  40  J     5.6   9 117  -2.3   4.6  -0.9  2  J      365 18.1  51  J     5.9   7 324   4.3  -2.6   1.7  3  J
17    419  3.0  45  J     5.4   7 117  -2.3   4.6  -0.9  1  J                         5.6  18 330   4.2  -1.8   2.2  2  C
18    414  5.9  34  J     5.2  16  91  -0.1   4.7   0.0  2  J      366 19.8  57  J     5.3 -25 345   4.4  -1.7  -1.7  2  J
19    386  5.3  46  J     5.8  42 166  -3.8   1.7   3.2  2  J      384 21.2  41  J     7.3 -10 300   2.6  -4.6   0.1  5  J
20    374  5.7  29  J     6.0   3 149  -4.7   2.8  -0.2  2  J      385 21.8  51  J     9.0 -12 296   3.5  -7.3  -0.4  4  J
21    387  6.4  37  J     5.3 -18 133  -3.2   3.2  -2.0  2  J      384 18.8  56  J    11.9 -34 304   5.5  -9.0  -5.4  1  J
22    385  7.2  35  J     5.4  -8 119  -2.4   4.1  -1.2  2  J      381 20.8  57  J    11.5 -30 306   5.8  -8.6  -4.6  2  J
23    387  7.4  31  J     5.3 -19 101  -0.8   4.1  -2.0  2  J      377 24.2  81  J     9.5 -24 315   5.8  -6.2  -3.0  3  J
24    394  7.0  50  J     5.8  35 157  -4.4   2.3   3.1  1  J                         6.1  77 187  -1.2   0.5   5.1  0  C

                          NOV.  2, 1983                  306                        NOV.  3, 1983                   307

 1                       12.5 -41 284   2.1  -9.8  -6.4  3  C                         6.7 -28 326   4.3  -3.3  -2.3  2  C
 2                       13.5 -41 303   5.3  -9.4  -6.9  3  C                         6.6  -6 318   4.0  -3.6   0.1  3  C
 3                       15.2 -24 302   6.1 -10.5  -3.0  8  C      623  4.6 105  J     6.6  10 308   3.6  -4.3   2.0  3  J
 4                       13.1  18 269  -0.2  -7.2   4.9  9  C      611  4.4 100  J     6.5   1 334   4.4  -2.0   0.7  4  J
 5                       19.8  68  85   0.4   7.6   8.8 14  C      599  4.4 100  J     6.7 -16 335   5.1  -2.8  -0.8  3  J
 6    438 32.0 268  J    24.0  88 172  -0.4   4.2  10.3 22  J      607  4.9 114  J     6.7   7 326   4.5  -2.6   1.8  4  J
 7    503 24.0 525  J    17.5  14 306   4.6  -4.9   4.5 16  J      588  5.0 107  J     6.6  11 330   5.2  -2.2   2.3  2  J
 8    538 21.3 622  J    15.0  39 336   3.3   0.0   3.3 15  J      584  4.9  97  J     6.8  10 327   5.1  -2.5   2.5  3  J
 9    596 14.9 579  J    15.9  40 341   5.3   0.7   5.0 14  J      613  5.3 131  J     6.6  11 296   2.2  -3.4   3.0  4  J
10    608  8.6 434  J    13.3  18 283   2.3  -6.9   7.8  8  J      591  5.6 111  J     6.6  22 313   3.5  -2.3   3.7  3  J
11    607  7.3 375  J    13.6  -8 302   6.7 -10.2   3.9  5  J      594  5.8 138  J     6.8   1 303   3.2  -4.2   2.5  3  J
12    609  6.7 342  J    12.2 -12 310   6.2  -7.4   1.8  7  J      603  6.2 138  J     6.7 -25 294   1.8  -4.6   0.2  4  J
13    638  4.5 171  J     8.3   7 329   5.7  -2.6   2.3  5  J      613  6.5 138  J     6.7  -6 280   0.9  -4.6   1.8  4  J
14    668  4.4 249  J     7.3  17 310   3.3  -2.8   3.1  5  J      600  6.6 143  J     6.9  38 304   2.4  -1.7   4.5  4  J
15    671  4.9 208  J     7.3  26 325   4.3  -1.7   3.5  4  J      588  6.9 154  J     6.8  -3 312   3.3  -3.4   1.2  5  J
16    664  5.3 216  J     8.1  40 327   4.2  -1.1   4.9  5  J      599  6.7 143  J     7.0  -4 314   2.5  -2.5   0.7  6  J
17    630  5.9 131  J     7.7   5 341   6.6  -2.0   1.3  3  J                         6.6 -31  33   4.2   1.7  -3.7  2  C
18    677  5.9 180  J     9.0  10 268  -0.2  -5.7   2.7  6  J      598  8.9 224  J     6.4  55 336   2.7  -0.1   4.4  4  J
19    676  6.1 205  J     9.4  26 261  -1.3  -6.9   5.5  3  J      598  8.5 224  J     6.1  16 329   3.1  -1.6   1.4  5  J
20    618  6.1 174  J     9.2  18 305   4.0  -5.2   3.2  6  J      616  8.2 191  J     6.0 -24 298   1.6  -3.3  -1.0  5  J
21    628  5.6 155  J     8.4   7 308   4.0  -4.9   1.5  5  J      629  7.1 171  J     6.3  20 247  -1.7  -3.7   2.1  4  J
22    632  5.2 132  J     7.7  16 312   4.4  -4.7   2.5  3  J      625  7.2 218  J     4.2  14 286   0.6  -1.9   0.7  4  J
23    613  4.2  65  J     7.2   2 334   6.1  -2.9   0.6  2  J      622  6.0 165  J     5.9  37 244  -1.7  -3.2   3.3  3  J
24                        7.1  21 332   5.5  -2.6   2.7  2  C      623  6.1 200  J     5.1  24 222  -3.1  -2.6   2.2  2  J
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308

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 608 | 5.7 | 177 | J | 5.1 | 19 | 247 | -1.7 | -3.7 | 2.0 | 2 | J |
| 2 | | | | | 4.6 | 11 | 246 | -1.6 | -3.6 | 1.4 | 2 | C |
| 3 | 605 | 5.8 | 155 | J | 5.5 | -1 | 230 | -3.1 | -3.7 | 0.7 | 2 | J |
| 4 | 592 | 6.1 | 141 | J | 4.3 | -12 | 268 | -0.1 | -3.5 | 0.2 | 3 | J |
| 5 | 575 | 5.2 | 129 | J | 3.9 | 6 | 346 | 3.3 | -0.7 | 0.6 | 2 | J |
| 6 | 570 | 5.5 | 120 | J | 5.1 | 8 | 267 | -0.2 | -3.1 | 1.8 | 4 | J |
| 7 | 530 | 5.0 | 91 | J | 5.2 | 32 | 321 | 3.2 | -1.3 | 3.4 | 2 | J |
| 8 | 511 | 5.0 | 50 | J | 4.9 | 20 | 325 | 3.6 | -1.5 | 2.6 | 1 | J |
| 9 | 553 | 4.2 | 94 | J | 4.9 | 13 | 252 | -1.1 | -2.7 | 2.4 | 3 | J |
| 10 | 532 | 4.8 | 109 | J | 4.2 | 36 | 315 | 1.8 | -0.7 | 2.5 | 3 | J |
| 11 | 521 | 5.4 | 78 | J | 4.4 | 0 | 356 | 2.8 | -0.2 | 0.1 | 3 | J |
| 12 | 513 | 5.8 | 91 | J | 3.9 | -32 | 359 | 3.0 | -0.9 | -1.6 | 2 | J |
| 13 | 506 | 5.6 | 65 | J | 4.1 | 9 | 346 | 3.1 | -0.4 | 0.8 | 3 | J |
| 14 | 512 | 5.8 | 71 | J | 4.0 | -24 | 305 | 1.6 | -2.6 | -0.1 | 3 | J |
| 15 | 513 | 5.8 | 84 | J | 3.9 | -13 | 293 | 0.9 | -2.1 | 0.3 | 3 | J |
| 16 | 501 | 5.5 | 79 | J | 4.1 | -25 | 312 | 2.1 | -2.6 | -0.5 | 2 | J |
| 17 | | | | | 5.1 | 26 | 251 | -1.4 | -3.1 | 3.1 | 2 | C |
| 18 | | | | | 4.8 | 48 | 270 | 0.0 | -2.0 | 4.0 | 1 | C |
| 19 | | | | | 4.8 | 30 | 223 | -3.0 | -2.2 | 2.8 | 0 | C |
| 20 | 487 | 5.3 | 52 | J | 5.2 | 9 | 269 | -0.1 | -4.2 | 1.4 | 3 | J |
| 21 | 482 | 6.1 | 65 | J | 5.2 | -4 | 271 | 0.1 | -4.4 | 0.3 | 3 | J |
| 22 | | | | | 4.8 | 45 | 298 | 1.3 | -2.2 | 3.2 | 2 | C |
| 23 | 472 | 8.4 | 131 | J | 4.8 | 11 | 277 | 0.5 | -4.2 | 1.3 | 1 | C |
| 24 | | | | | 4.8 | 27 | 297 | 1.6 | -2.9 | 2.2 | 2 | C |

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309

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.0 | 40 | 293 | 1.3 | -2.7 | 3.2 | 2 | C |
| 2 | | | | | 5.1 | -12 | 255 | -1.1 | -4.4 | -0.2 | 2 | C |
| 3 | | | | | 4.5 | 20 | 273 | 0.2 | -3.3 | 2.1 | 1 | C |
| 4 | | | | | 4.4 | 3 | 266 | -0.2 | -3.0 | 0.9 | 3 | C |
| 5 | | | | | 4.7 | -1 | 242 | -2.1 | -3.6 | 1.1 | 1 | C |
| 6 | | | | | 4.4 | -2 | 279 | 0.6 | -3.3 | 1.2 | 2 | C |
| 7 | | | | | 4.9 | 15 | 285 | 1.0 | -2.8 | 2.3 | 3 | C |
| 8 | | | | | 4.9 | -14 | 242 | -2.0 | -3.9 | 0.8 | 2 | C |
| 9 | | | | | 4.7 | -26 | 234 | -2.0 | -3.2 | -0.1 | 3 | C |
| 10 | | | | | 4.8 | -13 | 259 | -0.8 | -3.9 | 1.1 | 2 | C |
| 11 | | | | | 5.5 | 7 | 262 | -0.7 | -4.2 | 3.1 | 1 | C |
| 12 | | | | | 5.2 | 25 | 266 | -0.3 | -2.9 | 4.1 | 1 | C |
| 13 | | | | | 5.0 | -13 | 308 | 2.7 | -3.5 | 0.7 | 2 | C |
| 14 | | | | | 4.4 | -6 | 311 | 2.4 | -2.7 | 0.8 | 2 | C |
| 15 | | | | | 4.4 | 19 | 282 | 0.8 | -2.8 | 2.5 | 2 | C |
| 16 | | | | | 4.1 | 8 | 288 | 1.1 | -3.1 | 1.7 | 2 | C |
| 17 | | | | | 3.7 | 20 | 299 | 1.6 | -2.4 | 2.0 | 1 | C |
| 18 | | | | | 4.1 | 20 | 268 | -0.1 | -3.2 | 2.2 | 1 | C |
| 19 | | | | | 3.6 | -14 | 342 | 3.2 | -1.2 | -0.6 | 1 | C |
| 20 | | | | | 3.8 | -17 | 356 | 3.6 | -0.4 | -1.1 | 0 | C |
| 21 | | | | | 3.6 | 0 | 347 | 3.5 | -0.8 | 0.1 | 1 | C |
| 22 | | | | | 3.8 | 9 | 355 | 3.7 | -0.3 | 0.6 | 1 | C |
| 23 | | | | | 3.8 | 4 | 12 | 3.7 | 0.8 | 0.2 | 1 | C |
| 24 | | | | | 3.2 | 10 | 24 | 2.7 | 1.2 | 0.4 | 1 | C |

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310

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 3.1 | -15 | 7 | 2.7 | 0.2 | -0.8 | 1 | C |
| 2 | | | | | 2.9 | -7 | 326 | 2.3 | -1.6 | -0.1 | 1 | C |
| 3 | | | | | 2.9 | 10 | 325 | 2.3 | -1.4 | 0.8 | 0 | C |
| 4 | | | | | 3.4 | 17 | 332 | 2.9 | -1.2 | 1.4 | 0 | C |
| 5 | | | | | 3.4 | 14 | 328 | 2.8 | -1.4 | 1.3 | 0 | C |
| 6 | | | | | 3.2 | 5 | 312 | 2.0 | -2.0 | 1.0 | 1 | C |
| 7 | | | | | 3.4 | 13 | 294 | 1.3 | -2.4 | 1.9 | 1 | C |
| 8 | | | | | 3.1 | 21 | 307 | 1.6 | -1.4 | 1.8 | 1 | C |
| 9 | | | | | 3.7 | 28 | 272 | 0.1 | -1.9 | 2.9 | 1 | C |
| 10 | | | | | 3.7 | 19 | 309 | 1.9 | -1.6 | 2.1 | 2 | C |
| 11 | | | | | 4.8 | 25 | 308 | 2.6 | -2.0 | 3.4 | 1 | C |
| 12 | | | | | 5.0 | 13 | 304 | 2.6 | -2.8 | 2.7 | 2 | C |
| 13 | | | | | 5.0 | 3 | 336 | 4.0 | -1.5 | 1.0 | 2 | C |
| 14 | | | | | 5.2 | -1 | 289 | 1.7 | -4.3 | 2.0 | 1 | C |
| 15 | | | | | 5.6 | 53 | 249 | -1.0 | -1.0 | 4.5 | 3 | C |
| 16 | | | | | 5.7 | 45 | 223 | -2.9 | -1.2 | 4.6 | 1 | C |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 6.4 | 27 | 228 | -3.5 | -3.1 | 3.6 | 2 | C |
| 19 | | | | | 6.0 | 18 | 242 | -2.7 | -4.5 | 2.8 | 0 | C |
| 20 | | | | | 6.4 | 19 | 242 | -2.8 | -5.0 | 2.8 | 0 | C |
| 21 | | | | | 6.1 | 29 | 289 | 1.6 | -4.3 | 3.3 | 2 | C |
| 22 | | | | | 6.0 | 29 | 308 | 3.2 | -3.8 | 3.3 | 0 | C |
| 23 | | | | | 6.0 | 24 | 296 | 2.3 | -4.6 | 2.7 | 1 | C |
| 24 | | | | | 6.3 | 22 | 287 | 1.6 | -4.8 | 2.6 | 3 | C |

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311

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 6.3 | 25 | 276 | 0.6 | -5.1 | 3.2 | 1 | C |
| 2 | | | | | 6.6 | -1 | 246 | -2.6 | -5.7 | 0.7 | 2 | C |
| 3 | | | | | 5.7 | 43 | 340 | 3.3 | -0.5 | 3.4 | 3 | C |
| 4 | | | | | 5.2 | 13 | 315 | 3.2 | -2.8 | 1.8 | 2 | C |
| 5 | | | | | 5.7 | -55 | 283 | 0.7 | -4.1 | -3.3 | 2 | C |
| 6 | | | | | 5.5 | -16 | 271 | 0.1 | -4.9 | 0.4 | 2 | C |
| 7 | | | | | 5.2 | 15 | 296 | 1.7 | -2.7 | 2.3 | 3 | C |
| 8 | | | | | 4.9 | 41 | 349 | 3.2 | 0.7 | 2.8 | 2 | C |
| 9 | | | | | 5.1 | 15 | 19 | 4.0 | 1.8 | 0.4 | 2 | C |
| 10 | | | | | 5.2 | 43 | 336 | 3.1 | 0.3 | 3.4 | 2 | C |
| 11 | | | | | 5.9 | 49 | 9 | 3.7 | 2.6 | 3.5 | 1 | C |
| 12 | | | | | 8.8 | -38 | 260 | -0.5 | -3.9 | -0.7 | 7 | C |
| 13 | | | | | 9.2 | -51 | 253 | -1.0 | -5.1 | -2.4 | 7 | C |
| 14 | | | | | 10.1 | -49 | 279 | 0.8 | -7.0 | -3.1 | 6 | C |
| 15 | | | | | 9.7 | -47 | 259 | -1.1 | -8.1 | -3.8 | 3 | C |
| 16 | | | | | 8.3 | -5 | 295 | 2.6 | -5.2 | 1.4 | 5 | C |
| 17 | | | | | 8.6 | -48 | 325 | 3.9 | -4.1 | -4.2 | 4 | C |
| 18 | | | | | 8.4 | -66 | 295 | 1.4 | -4.6 | -6.3 | 2 | C |
| 19 | | | | | 8.6 | -30 | 288 | 1.8 | -6.1 | -2.3 | 5 | C |
| 20 | | | | | 9.2 | -35 | 288 | 2.1 | -7.3 | -3.9 | 3 | C |
| 21 | | | | | 10.2 | -64 | 270 | -0.0 | -5.4 | -8.3 | 2 | C |
| 22 | | | | | 8.8 | -15 | 301 | 4.0 | -6.9 | -1.5 | 3 | C |
| 23 | | | | | 7.1 | -71 | 79 | 0.4 | 1.5 | -6.1 | 3 | C |
| 24 | | | | | 9.0 | -48 | 105 | -1.5 | 5.1 | -7.1 | 2 | C |

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312

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 8.9 | -14 | 93 | -0.4 | 6.6 | -2.4 | 5 | C |
| 2 | | | | | 9.1 | -24 | 76 | 0.9 | 3.2 | -2.1 | 8 | C |
| 3 | | | | | 9.0 | 58 | 31 | 3.6 | 3.4 | 6.3 | 4 | C |
| 4 | | | | | 10.0 | -1 | 334 | 6.3 | -3.0 | 0.7 | 7 | C |
| 5 | | | | | 8.0 | -67 | 24 | 2.3 | -0.8 | -6.0 | 4 | C |
| 6 | | | | | 8.8 | -69 | 238 | -1.5 | -5.0 | -6.4 | 3 | C |
| 7 | | | | | 8.5 | 6 | 71 | 1.9 | 5.4 | -1.6 | 6 | C |
| 8 | | | | | 9.7 | -19 | 111 | -2.1 | 4.1 | -4.3 | 7 | C |
| 9 | | | | | 13.2 | -10 | 116 | -4.8 | 7.9 | -6.3 | 6 | C |
| 10 | | | | | 14.0 | 5 | 116 | -5.7 | 10.8 | -4.6 | 4 | C |
| 11 | | | | | 13.6 | -11 | 123 | -6.8 | 8.0 | -7.3 | 4 | C |
| 12 | | | | | 13.1 | 9 | 118 | -5.8 | 10.7 | -3.4 | 3 | C |
| 13 | | | | | 14.5 | -27 | 199 | -11.7 | -6.5 | -3.7 | 4 | C |
| 14 | | | | | 13.1 | -24 | 146 | -9.4 | 3.7 | -7.2 | 3 | C |
| 15 | | | | | 13.1 | 5 | 124 | -7.1 | 10.2 | -2.9 | 3 | C |
| 16 | | | | | 14.0 | 18 | 104 | -3.2 | 13.5 | -0.1 | 2 | C |
| 17 | | | | | 13.9 | 11 | 111 | -4.9 | 12.7 | -1.0 | 3 | C |
| 18 | | | | | 12.9 | -6 | 117 | -5.5 | 10.4 | -3.9 | 3 | C |
| 19 | | | | | 12.3 | -1 | 116 | -5.1 | 10.1 | -2.0 | 4 | C |
| 20 | | | | | 11.7 | 7 | 113 | -4.0 | 9.6 | -0.1 | 5 | C |
| 21 | | | | | 10.2 | -32 | 124 | -3.5 | 4.6 | -4.4 | 7 | C |
| 22 | | | | | 10.0 | -44 | 112 | -1.6 | 3.6 | -4.5 | 7 | C |
| 23 | | | | | 12.5 | -2 | 120 | -6.2 | 10.5 | -1.3 | 2 | C |
| 24 | | | | | | | | | | | | |

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313

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 12.2 | -5 | 121 | -6.0 | 10.0 | -2.1 | 1 | C |
| 2 | | | | | 10.5 | -17 | 136 | -7.0 | 6.2 | -3.9 | 3 | C |
| 3 | | | | | 10.6 | -12 | 129 | -6.3 | 7.2 | -3.5 | 3 | C |
| 4 | | | | | 11.1 | -10 | 126 | -6.2 | 7.9 | -3.8 | 2 | C |
| 5 | | | | | 11.3 | -5 | 136 | -8.0 | 7.2 | -3.1 | 1 | C |
| 6 | | | | | 11.0 | -2 | 134 | -7.5 | 7.2 | -2.9 | 2 | C |
| 7 | | | | | 9.3 | 12 | 148 | -7.6 | 5.1 | -0.0 | 0 | C |
| 8 | | | | | 10.5 | 1 | 142 | -7.7 | 5.4 | -2.3 | 4 | C |
| 9 | | | | | 10.9 | 5 | 144 | -8.3 | 5.7 | -2.0 | 3 | C |
| 10 | | | | | 11.2 | 8 | 149 | -7.7 | 4.7 | -1.1 | 6 | C |
| 11 | | | | | 11.4 | 19 | 206 | -7.3 | -1.7 | 4.2 | 7 | C |
| 12 | | | | | 11.5 | 2 | 163 | -9.3 | 2.6 | -1.0 | 5 | C |
| 13 | | | | | 11.7 | -6 | 143 | -8.5 | 5.2 | -3.8 | 4 | C |
| 14 | | | | | 12.5 | 6 | 123 | -6.4 | 9.6 | -2.9 | 3 | C |
| 15 | | | | | 12.7 | -7 | 141 | -8.6 | 5.9 | -3.8 | 5 | C |
| 16 | | | | | 14.9 | 14 | 129 | -8.4 | 10.9 | -0.3 | 4 | C |
| 17 | | | | | 14.7 | 24 | 157 | -11.7 | 6.3 | 4.1 | 4 | C |
| 18 | 579 | 11.3 | 524 | J | 12.3 | 5 | 142 | -7.5 | 5.9 | -0.5 | 6 | C |
| 19 | 563 | 10.3 | 433 | J | 13.2 | -10 | 128 | -6.4 | 7.8 | -3.3 | 8 | J |
| 20 | 581 | 10.7 | 421 | J | 14.0 | -31 | 109 | -3.5 | 9.1 | -7.8 | 6 | J |
| 21 | 594 | 8.7 | 396 | J | 12.6 | -5 | 123 | -5.8 | 8.7 | -1.9 | 6 | J |
| 22 | 591 | 7.9 | 328 | J | 12.4 | 12 | 130 | -6.6 | 8.0 | 1.5 | 6 | J |
| 23 | 612 | 6.9 | 315 | J | 10.2 | 2 | 146 | -6.6 | 4.5 | -0.1 | 6 | J |
| 24 | 604 | 7.0 | 265 | J | 9.5 | 15 | 134 | -5.2 | 5.5 | 1.6 | 5 | J |

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314

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 637 | 6.2 | 277 | J | 9.2 | -33 | 117 | -2.7 | 4.8 | -4.3 | 6 | J |
| 2 | 609 | 5.2 | 169 | J | 8.4 | 2 | 135 | -5.3 | 5.3 | -0.4 | 4 | J |
| 3 | 609 | 4.7 | 239 | J | 7.4 | 10 | 136 | -4.2 | 4.2 | 0.3 | 4 | J |
| 4 | 620 | 4.0 | 193 | J | 6.9 | -7 | 130 | -3.3 | 3.7 | -1.5 | 4 | J |
| 5 | 602 | 3.2 | 150 | J | 6.3 | 2 | 130 | -3.3 | 3.8 | -0.9 | 4 | J |
| 6 | 603 | 2.9 | 128 | J | 5.7 | -8 | 125 | -2.8 | 3.5 | -2.0 | 3 | J |
| 7 | 589 | 2.7 | 108 | J | 5.2 | -2 | 115 | -1.9 | 3.6 | -1.7 | 3 | J |
| 8 | 590 | 3.0 | 124 | J | 5.2 | -20 | 123 | -2.4 | 2.7 | -3.0 | 2 | J |
| 9 | 547 | 2.3 | 62 | J | 4.8 | 17 | 119 | -1.9 | 3.6 | -0.5 | 2 | J |
| 10 | 553 | 2.7 | 85 | J | 5.0 | 10 | 128 | -2.6 | 3.3 | -0.9 | 2 | J |
| 11 | | | | | 5.0 | -18 | 89 | 0.1 | 3.3 | -3.5 | 1 | J |
| 12 | | | | | 4.3 | 4 | 120 | -2.0 | 3.3 | -1.4 | 1 | C |
| 13 | 546 | 3.9 | 119 | J | 4.8 | -12 | 124 | -2.1 | 2.4 | -2.1 | 3 | J |
| 14 | 525 | 4.8 | 128 | L | 4.4 | -13 | 125 | -2.1 | 2.4 | -2.0 | 2 | J |
| 15 | 547 | 4.7 | 93 | J | 4.3 | -21 | 60 | 1.4 | 1.9 | -2.0 | 3 | J |
| 16 | 532 | 4.8 | 90 | J | 4.1 | -8 | 80 | 0.6 | 3.1 | -1.6 | 2 | J |
| 17 | 552 | 7.5 | 122 | J | 5.9 | -10 | 100 | -0.9 | 4.4 | -2.2 | 3 | J |
| 18 | 570 | 9.0 | 160 | J | 7.2 | -42 | 108 | -1.5 | 3.5 | -5.3 | 3 | J |
| 19 | 590 | 10.7 | 113 | J | 8.5 | 7 | 81 | 1.2 | 7.4 | -0.4 | 4 | J |
| 20 | 565 | 9.8 | 144 | J | 8.3 | -22 | 97 | -0.8 | 6.4 | -3.7 | 4 | J |
| 21 | 556 | 8.9 | 149 | J | 9.0 | 4 | 120 | -3.9 | 6.8 | -0.1 | 4 | J |
| 22 | 541 | 9.1 | 175 | J | 8.9 | 20 | 127 | -4.8 | 6.5 | 2.4 | 3 | J |
| 23 | 561 | 7.1 | 160 | J | 8.4 | 27 | 122 | -3.4 | 5.7 | 2.9 | 4 | J |
| 24 | 602 | 10.3 | 239 | J | 8.9 | 66 | 186 | -3.3 | 0.2 | 7.5 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 606 | 18.8 | 229 | J | 9.0 | 32 | 138 | -0.9 | 0.9 | 0.7 | 9 | J |
| 2 | 642 | 13.7 | 198 | J | 11.2 | 41 | 170 | -6.8 | 1.9 | 5.8 | 7 | J |
| 3 | 654 | 11.3 | 171 | J | 12.8 | 46 | 166 | -8.4 | 3.6 | 8.5 | 3 | J |
| 4 | 637 | 11.2 | 202 | J | 12.4 | 45 | 163 | -8.2 | 4.4 | 7.8 | 3 | J |
| 5 | 628 | 9.3 | 219 | J | 13.0 | 29 | 192 | -8.4 | -0.4 | 5.1 | 8 | J |
| 6 | 603 | 8.8 | 220 | J | 11.9 | 43 | 194 | -7.9 | 0.7 | 7.8 | 4 | J |
| 7 | 596 | 11.3 | 130 | J | 10.8 | 43 | 168 | -6.8 | 3.8 | 5.4 | 5 | J |
| 8 | 614 | 10.0 | 167 | J | 10.7 | 44 | 172 | -7.1 | 3.9 | 5.9 | 4 | J |
| 9 | 592 | 11.2 | 186 | J | 10.9 | 37 | 178 | -8.5 | 3.1 | 5.6 | 3 | J |
| 10 | 574 | 11.0 | 111 | J | 11.2 | 36 | 180 | -9.0 | 3.0 | 5.8 | 2 | J |
| 11 | 605 | 7.4 | 100 | J | 10.7 | 2 | 149 | -8.4 | 4.6 | -2.1 | 4 | J |
| 12 | 616 | 9.5 | 78 | J | 10.8 | -66 | 93 | -0.2 | -0.4 | -7.1 | 8 | J |
| 13 | 607 | 11.1 | 37 | J | 12.7 | 65 | 305 | 2.9 | 1.0 | 11.7 | 4 | J |
| 14 | 603 | 7.9 | 49 | J | 12.6 | 73 | 268 | -0.1 | 1.4 | 12.1 | 3 | J |
| 15 | 590 | 9.3 | 60 | J | 11.8 | 57 | 144 | -5.2 | 7.1 | 7.8 | 2 | J |
| 16 | 586 | 15.4 | 43 | J | 11.9 | 52 | 138 | -5.4 | 7.5 | 7.2 | 2 | J |
| 17 | 569 | 14.7 | 55 | J | 11.1 | 64 | 137 | -3.5 | 5.8 | 8.7 | 1 | J |
| 18 | 571 | 10.6 | 59 | J | 10.9 | 65 | 141 | -3.5 | 4.8 | 8.8 | 2 | J |
| 19 | 564 | 15.8 | 77 | J | 8.5 | 29 | 21 | 2.9 | 1.4 | 1.5 | 8 | J |
| 20 | 563 | 11.4 | 75 | J | 12.0 | -47 | 336 | 7.3 | -4.3 | -8.1 | 2 | J |
| 21 | 537 | 21.4 | 62 | J | 10.3 | -22 | 66 | 2.6 | 5.5 | -3.1 | 8 | J |
| 22 | 542 | 15.8 | 51 | J | 10.1 | 20 | 101 | -1.8 | 9.3 | 2.7 | 2 | J |
| 23 | 538 | 10.2 | 37 | J | 10.8 | 19 | 95 | -0.9 | 10.4 | 2.8 | 1 | J |
| 24 | 531 | 10.2 | 36 | J | 11.0 | 8 | 89 | 0.2 | 10.9 | 0.8 | 1 | J |

# 11/12/83 – 11/19/83

NOV. 12, 1983 316

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 530 | 12.1 | 35 | J | 11.0 | 1 | 87 | 0.6 | 10.8 | -0.8 | 2 | J |
| 2 | 520 | 14.5 | 39 | J | 11.1 | -4 | 82 | 1.5 | 10.6 | -2.1 | 2 | J |
| 3 | 518 | 13.4 | 46 | J | 11.4 | -8 | 78 | 2.3 | 10.5 | -3.4 | 1 | J |
| 4 | 516 | 15.8 | 49 | J | 11.6 | -9 | 78 | 2.4 | 10.5 | -4.2 | 0 | J |
| 5 | 513 | 16.0 | 41 | J | 11.1 | -14 | 84 | 1.1 | 9.5 | -5.5 | 1 | J |
| 6 | 507 | 16.0 | 45 | J | 10.1 | -40 | 82 | 0.8 | 3.7 | -6.3 | 7 | J |
| 7 | 497 | 16.7 | 43 | J | 9.3 | -62 | 35 | 3.5 | -0.8 | -8.5 | 2 | J |
| 8 | 502 | 19.9 | 31 | J | 8.7 | -66 | 67 | 1.4 | -0.4 | -8.5 | 1 | J |
| 9 | 497 | 22.4 | 40 | J | 7.3 | -51 | 69 | 1.6 | 1.3 | -6.9 | 1 | J |
| 10 | 493 | 22.5 | 49 | J | 6.2 | -35 | 63 | 2.1 | 2.2 | -4.8 | 2 | J |
| 11 | 491 | 21.2 | 71 | J | 5.8 | -11 | 33 | 4.6 | 2.2 | -2.3 | 1 | J |
| 12 | 490 | 19.9 | 74 | J | 6.6 | -5 | 31 | 5.6 | 2.7 | -2.0 | 1 | J |
| 13 | 490 | 17.7 | 60 | J | 6.7 | -5 | 31 | 5.7 | 2.9 | -2.0 | 0 | J |
| 14 | 498 | 15.0 | 29 | J | 8.1 | -20 | 45 | 5.4 | 3.8 | -4.7 | 1 | J |
| 15 | 486 | 15.0 | 38 | J | 8.1 | -22 | 38 | 5.8 | 3.2 | -4.4 | 1 | J |
| 16 | 524 | 12.7 | 51 | J | 7.8 | -22 | 40 | 5.5 | 3.5 | -4.2 | 1 | J |
| 17 | 474 | 17.6 | 57 | J | 6.9 | -19 | 33 | 5.5 | 2.8 | -3.1 | 0 | J |
| 18 | 468 | 17.6 | 48 | J | 6.9 | -28 | 34 | 4.9 | 2.6 | -3.8 | 1 | J |
| 19 | 468 | 17.1 | 40 | J | 7.0 | -30 | 32 | 4.8 | 2.4 | -3.8 | 2 | J |
| 20 | 461 | 17.8 | 37 | J | 6.2 | -32 | 42 | 3.7 | 2.9 | -3.5 | 1 | J |
| 21 | 460 | 17.2 | 46 | J | 5.6 | -24 | 28 | 4.5 | 2.2 | -2.5 | 1 | J |
| 22 | 462 | 17.6 | 52 | J | 5.0 | -28 | 32 | 3.7 | 2.1 | -2.5 | 1 | J |
| 23 | 453 | 16.7 | 72 | J | 5.1 | -16 | 23 | 4.4 | 1.8 | -1.5 | 1 | J |
| 24 | 448 | 15.8 | 66 | J | 5.2 | -9 | 22 | 4.7 | 1.8 | -0.9 | 1 | J |

NOV. 13, 1983 317

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 437 | 15.1 | 64 | J | 5.3 | -6 | 20 | 5.0 | 1.8 | -0.7 | 1 | J |
|  | 434 | 15.5 | 75 | J | 5.1 | -11 | 26 | 4.3 | 2.0 | -1.2 | 1 | J |
|  | 428 | 15.4 | 81 | J | 5.9 | -11 | 28 | 5.0 | 2.5 | -1.5 | 1 | J |
|  | 423 | 17.5 | 64 | J | 5.6 | -14 | 38 | 4.2 | 2.9 | -2.0 | 1 | J |
|  | 427 | 15.6 | 39 | J | 6.8 | -22 | 51 | 3.9 | 4.0 | -3.7 | 1 | J |
|  | 419 | 16.2 | 36 | J | 6.9 | -23 | 49 | 4.1 | 3.6 | -4.1 | 1 | J |
|  | 412 | 16.4 | 28 | J | 6.8 | -17 | 35 | 5.2 | 2.6 | -3.1 | 1 | J |
|  | 409 | 17.6 | 29 | J | 7.9 | -15 | 29 | 6.4 | 2.4 | -3.3 | 2 | J |
|  | 405 | 17.0 | 34 | J | 7.8 | -30 | 32 | 5.3 | 1.4 | -4.7 | 3 | J |
|  | 411 | 16.6 | 45 | J | 6.5 | -22 | 128 | -3.6 | 3.0 | -4.2 | 1 | J |
|  | 412 | 13.4 | 35 | J | 7.2 | -34 | 64 | 2.4 | 2.7 | -5.5 | 3 | J |
|  | 401 | 13.0 | 49 | J | 7.3 | -25 | 46 | 4.4 | 2.8 | -4.7 | 2 | J |
|  | 407 | 12.1 | 46 | J | 7.9 | -35 | 72 | 1.9 | 3.5 | -6.5 | 2 | J |
|  | 413 | 8.2 | 35 | J | 8.5 | -40 | 95 | -0.6 | 3.8 | -7.5 | 1 | J |
|  | 399 | 8.1 | 55 | J | 7.3 | -46 | 143 | -3.6 | 0.9 | -5.3 | 3 | J |
|  | 392 | 11.0 | 77 | J | 5.1 | 15 | 210 | -3.2 | -1.4 | 1.5 | 3 | J |
|  | 393 | 9.9 | 74 | J | 6.4 | -20 | 118 | -2.6 | 4.3 | -3.3 | 2 | J |
|  | 412 | 14.8 | 33 | J | 6.6 | -14 | 100 | -1.1 | 5.6 | -2.7 | 2 | J |
|  | 423 | 20.3 | 59 | J | 5.9 | -10 | 101 | -1.1 | 5.3 | -1.9 | 2 | J |
|  | 428 | 23.2 | 85 | J | 4.6 | -10 | 113 | -1.5 | 3.3 | -1.1 | 3 | J |
|  | 424 | 15.1 | 83 | J | 7.7 | -36 | 129 | -3.7 | 4.2 | -4.7 | 2 | J |
|  | 413 | 9.7 | 58 | J | 7.9 | 3 | 114 | -1.8 | 4.1 | -0.0 | 7 | J |
|  | 416 | 8.2 | 67 | J | 8.4 | 4 | 117 | -2.8 | 5.4 | 0.1 | 6 | J |
|  | 435 | 9.1 | 136 | J | 8.1 | 41 | 155 | -4.6 | 2.4 | 4.3 | 4 | J |

NOV. 14, 1983 318

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 435 | 9.2 | 138 | J | 7.6 | 40 | 192 | -5.5 | -0.8 | 4.8 | 2 | J |
| 2 |  |  |  |  | 7.6 | 43 | 183 | -5.3 | 0.2 | 5.0 | 2 | C |
| 3 | 437 | 6.9 | 134 | J | 8.5 | -7 | 118 | -3.9 | 7.0 | -2.1 | 2 | J |
| 4 | 439 | 6.6 | 100 | J | 8.8 | -17 | 122 | -4.4 | 6.3 | -3.9 | 2 | J |
| 5 | 463 | 10.6 | 195 | J | 6.1 | -38 | 166 | -1.9 | 0.1 | -1.6 | 5 | J |
| 6 | 463 | 11.1 | 205 | J | 8.4 | 25 | 137 | -5.0 | 5.4 | 1.5 | 4 | J |
| 7 | 461 | 12.3 | 216 | J | 9.8 | 26 | 132 | -4.9 | 6.4 | 1.3 | 5 | J |
| 8 | 496 | 14.3 | 203 | J | 7.4 | -41 | 55 | 1.9 | 1.3 | -3.7 | 6 | J |
| 9 | 461 | 8.0 | 187 | J | 10.5 | 13 | 134 | -5.2 | 5.6 | -0.8 | 7 | J |
| 10 | 485 | 7.4 | 140 | J | 11.2 | 42 | 166 | -7.9 | 5.0 | 5.6 | 3 | J |
| 11 | 497 | 7.6 | 150 | J | 10.7 | 23 | 152 | -6.3 | 4.4 | 1.2 | 7 | J |
| 12 |  |  |  |  | 6.6 | -48 | 100 | -0.7 | 1.5 | -5.3 | 3 | C |
| 13 |  |  |  |  | 9.3 | -46 | 19 | 5.3 | -0.8 | -6.0 | 4 | C |
| 14 | 554 | 5.7 | 121 | J | 9.0 | -60 | 357 | 4.3 | -3.1 | -6.8 | 3 | J |
| 15 | 551 | 5.6 | 141 | J | 8.8 | -73 | 29 | 2.1 | -1.7 | -7.9 | 3 | J |
| 16 | 474 | 6.6 | 121 | J | 8.7 | -8 | 128 | -4.3 | 5.0 | -2.6 | 5 | J |
| 17 | 500 | 9.3 | 106 | J | 7.7 | -54 | 88 | 0.2 | 2.7 | -7.0 | 2 | J |
| 18 |  |  |  |  | 7.2 | -21 | 133 | -4.2 | 4.0 | -3.2 | 3 | C |
| 19 | 507 | 18.2 | 114 | J | 4.7 | 19 | 148 | -3.2 | 2.2 | 1.0 | 3 | J |
| 20 | 499 | 17.0 | 78 | J | 5.9 | 32 | 191 | -4.6 | -0.6 | 3.0 | 2 | J |
| 21 | 493 | 15.8 | 61 | J | 7.1 | 8 | 240 | -3.5 | -6.0 | 1.5 | 1 | J |
| 22 | 457 | 10.3 | 75 | J | 7.9 | -20 | 303 | 3.0 | -4.8 | -1.7 | 5 | J |
| 23 | 426 | 8.8 | 45 | J | 7.3 | 11 | 340 | 5.9 | -2.1 | 1.3 | 3 | J |
| 24 |  |  |  |  | 3.7 | 0 | 213 | -2.7 | -1.8 | 0.1 | 2 | C |

NOV. 15, 1983 319

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  | 9.0 | -19 | 344 | 5.8 | -1.8 | -1.9 | 6 | C |
|  | 462 | 13.6 | 70 | J | 10.0 | 11 | 290 | 3.3 | -8.7 | 2.8 | 2 | J |
|  | 453 | 13.5 | 80 | J | 10.5 | 18 | 299 | 4.5 | -7.5 | 4.2 | 4 | J |
|  | 451 | 15.3 | 85 | J | 11.0 | 23 | 302 | 5.3 | -7.4 | 5.8 | 2 | J |
|  | 447 | 15.7 | 88 | J | 12.0 | 24 | 303 | 5.4 | -6.8 | 6.4 | 5 | J |
|  | 436 | 15.1 | 96 | J | 12.8 | 1 | 313 | 8.3 | -8.3 | 3.0 | 4 | J |
|  | 439 | 14.4 | 73 | J | 14.2 | 2 | 313 | 9.2 | -9.0 | 4.0 | 4 | J |
|  | 462 | 21.1 | 114 | J | 12.3 | 6 | 315 | 6.8 | -5.8 | 3.7 | 8 | J |
|  | 492 | 18.3 | 210 | J | 8.1 | 53 | 317 | 2.6 | -0.1 | 5.3 | 6 | J |
|  | 500 | 19.8 | 203 | J | 8.6 | 19 | 336 | 5.5 | -1.3 | 3.0 | 6 | J |
|  | 505 | 17.2 | 184 | J | 11.7 | -5 | 319 | 7.1 | -5.9 | 2.0 | 7 | J |
|  | 520 | 15.0 | 215 | J | 14.2 | -20 | 321 | 10.0 | -9.3 | -0.7 | 4 | J |
|  | 574 | 14.9 | 392 | J | 12.1 | -17 | 327 | 9.1 | -6.8 | -0.6 | 5 | J |
|  |  |  |  |  | 10.4 | -21 | 320 | 5.5 | -5.3 | -0.8 | 6 | C |
|  |  |  |  |  | 11.5 | -31 | 312 | 5.5 | -7.5 | -2.5 | 5 | C |
|  |  |  |  |  | 10.9 | -21 | 315 | 4.0 | -4.5 | -0.9 | 8 | C |
|  | 627 | 8.4 | 238 | J | 10.3 | 28 | 311 | 5.6 | -5.1 | 6.0 | 3 | J |
|  | 645 | 8.8 | 298 | J | 10.3 | 18 | 309 | 4.7 | -5.2 | 3.5 | 7 | J |
|  | 640 | 8.8 | 271 | J | 9.0 | -3 | 352 | 6.3 | -0.9 | -0.2 | 6 | J |
|  | 639 | 7.7 | 193 | J | 8.3 | -19 | 346 | 6.9 | -2.0 | -2.2 | 4 | J |
|  | 642 | 7.5 | 229 | J | 7.9 | -2 | 345 | 6.7 | -1.8 | -0.1 | 4 | J |
|  |  |  |  |  | 8.1 | -15 | 19 | 6.6 | 2.1 | -1.9 | 3 | C |
|  | 618 | 6.3 | 139 | J | 7.2 | 8 | 355 | 5.0 | -0.4 | 0.7 | 5 | J |
|  | 630 | 6.1 | 154 | J | 7.4 | -6 | 325 | 5.4 | -3.8 | -0.5 | 3 | J |

NOV. 16, 1983 320

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 641 | 6.1 | 171 | J | 7.2 | 4 | 316 | 4.6 | -4.4 | 0.7 | 3 | J |
| 2 |  |  |  |  | 7.6 | -35 | 315 | 3.2 | -3.5 | -2.8 | 4 | C |
| 3 |  |  |  |  | 7.8 | -13 | 314 | 4.6 | -4.9 | -0.9 | 3 | C |
| 4 |  |  |  |  | 8.4 | -48 | 0 | 4.7 | -1.0 | -5.2 | 3 | C |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  | 8.1 | 2 | 301 | 3.3 | -5.2 | 2.0 | 5 | C |
| 7 |  |  |  |  | 8.1 | -1 | 350 | 6.9 | -1.1 | 0.4 | 4 | C |
| 8 | 611 | 6.7 | 195 | J | 7.1 | -7 | 318 | 4.4 | -3.9 | 0.9 | 4 | J |
| 9 | 611 | 6.5 | 179 | J | 7.3 | -5 | 333 | 5.9 | -3.0 | 0.8 | 3 | J |
| 10 | 613 | 6.5 | 172 | J | 8.0 | 7 | 322 | 5.1 | -3.2 | 2.5 | 5 | J |
| 11 | 616 | 6.7 | 216 | J | 8.1 | -1 | 321 | 5.1 | -3.7 | 1.7 | 5 | J |
| 12 |  |  |  |  | 8.8 | -2 | 321 | 6.4 | -4.8 | 2.0 | 3 | J |
| 13 | 632 | 7.2 | 223 | J | 9.1 | 21 | 8 | 6.9 | 2.0 | 2.1 | 5 | J |
| 14 | 624 | 6.7 | 143 | J | 9.3 | 35 | 8 | 7.2 | 2.9 | 4.3 | 2 | J |
| 15 |  |  |  |  | 9.1 | 17 | 331 | 6.3 | -2.6 | 3.3 | 3 | C |
| 16 |  |  |  |  | 9.2 | 9 | 2 | 6.3 | 0.5 | 0.9 | 6 | C |
| 17 |  |  |  |  | 8.7 | -19 | 307 | 3.9 | -5.7 | -0.9 | 4 | C |
| 18 |  |  |  |  | 8.4 | -25 | 343 | 6.2 | -2.4 | -2.7 | 3 | C |
| 19 | 601 | 6.9 | 185 | J | 9.3 | 10 | 328 | 7.3 | -4.3 | 2.1 | 3 | J |
| 20 | 614 | 6.6 | 180 | J | 9.3 | 10 | 314 | 6.2 | -6.3 | 2.2 | 2 | J |
| 21 | 621 | 7.3 | 208 | J | 8.8 | -16 | 329 | 5.4 | -3.3 | -1.6 | 6 | J |
| 22 | 636 | 8.3 | 220 | J | 8.7 | -26 | 313 | 3.7 | -4.1 | -2.4 | 6 | J |
| 23 | 632 | 8.8 | 247 | J | 8.5 | -41 | 316 | 3.7 | -3.7 | -4.3 | 5 | J |
| 24 | 644 | 7.2 | 240 | J | 8.6 | -17 | 318 | 4.6 | -4.2 | -1.7 | 6 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | 643 | 7.2 | 272 | J | 7.7 | -15 | 323 | 4.9 | -3.8 | -1.4 | 4 | J |
|  |  |  |  |  | 7.5 | -62 | 22 | 2.3 | 0.5 | -4.7 | 4 | C |
|  | 674 | 6.9 | 286 | J | 8.1 | 36 | 325 | 5.2 | -3.0 | 5.1 | 2 | J |
|  | 691 | 6.1 | 269 | J | 8.2 | 0 | 293 | 2.6 | -6.1 | 1.2 | 5 | J |
|  | 689 | 6.5 | 339 | J | 8.1 | -8 | 325 | 4.6 | -3.3 | 0.0 | 6 | J |
|  |  |  |  |  | 8.5 | -9 | 332 | 6.7 | -3.8 | -0.1 | 4 | J |
|  |  |  |  |  | 8.8 | 20 | 320 | 5.4 | -3.3 | 4.0 | 5 | J |
|  |  |  |  |  | 7.1 | -12 | 303 | 2.8 | -4.4 | 0.7 | 5 | J |
|  |  |  |  |  | 7.9 | 8 | 348 | 5.9 | -0.8 | 1.3 | 5 | J |
|  |  |  |  |  | 7.7 | -46 | 44 | 3.3 | 0.8 | -5.7 | 4 | J |
|  |  |  |  |  | 6.9 | -17 | 353 | 4.8 | -1.2 | -1.1 | 5 | J |
|  | 732 | 5.8 | 335 | J | 7.3 | 29 | 339 | 4.7 | -0.4 | 3.3 | 4 | J |
|  | 745 | 5.5 | 373 | J | 7.5 | 17 | 317 | 3.7 | -2.5 | 2.8 | 5 | J |
|  | 755 | 5.1 | 345 | J | 7.5 | 24 | 329 | 4.8 | -1.7 | 3.4 | 4 | J |
|  | 737 | 4.9 | 272 | J | 8.0 | 19 | 4 | 5.0 | 0.9 | 1.5 | 6 | J |
|  | 744 | 5.4 | 360 | J | 8.1 | -17 | 324 | 5.3 | -4.2 | -0.8 | 4 | J |
|  | 725 | 5.2 | 342 | J | 7.7 | 24 | 332 | 5.1 | -2.0 | 3.1 | 4 | J |
|  | 780 | 5.8 | 334 | J | 6.7 | -9 | 347 | 3.8 | -1.0 | -0.5 | 6 | J |
|  | 782 | 6.4 | 459 | L | 6.1 | -4 | 354 | 3.8 | -0.4 | -0.2 | 4 | C |
|  |  |  |  |  | 6.1 | 12 | 331 | 3.2 | -1.7 | 1.0 | 4 | C |
|  | 776 | 5.7 | 347 | L | 6.1 | -18 | 338 | 4.3 | -1.8 | -1.4 | 2 | C |
|  | 761 | 5.2 | 255 | L | 6.3 | 4 | 331 | 4.7 | -2.6 | 0.5 | 3 | C |
|  | 742 | 4.6 | 222 | L | 6.8 | -2 | 334 | 5.5 | -2.7 | -0.1 | 2 | C |
|  | 785 | 5.3 | 277 | L | 6.5 | 6 | 283 | 1.1 | -4.8 | 0.7 | 3 | C |

NOV. 18, 1983 322

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  | 6.0 | 1 | 351 | 4.2 | -0.7 | 0.1 | 3 | C |
| 2 |  |  |  |  | 6.2 | 13 | 29 | 4.3 | 2.5 | 0.9 | 3 | C |
| 3 |  |  |  |  | 6.3 | 7 | 314 | 3.6 | -3.6 | 1.1 | 3 | C |
| 4 |  |  |  |  | 6.7 | -49 | 311 | 2.5 | -3.6 | -3.7 | 3 | C |
| 5 |  |  |  |  | 7.3 | -33 | 16 | 4.9 | 0.6 | -3.6 | 4 | C |
| 6 |  |  |  |  | 6.7 | 5 | 35 | 4.7 | 3.2 | -0.5 | 3 | C |
| 7 |  |  |  |  | 6.7 | -11 | 335 | 3.8 | -1.9 | -0.1 | 4 | C |
| 8 |  |  |  |  | 7.4 | 21 | 319 | 4.5 | -2.7 | 3.7 | 2 | C |
| 9 |  |  |  |  | 7.6 | 11 | 321 | 5.0 | -3.2 | 2.8 | 2 | C |
| 10 |  |  |  |  | 7.3 | 2 | 307 | 3.9 | -4.6 | 2.4 | 2 | C |
| 11 |  |  |  |  | 6.7 | -4 | 333 | 5.3 | -2.6 | 0.8 | 2 | C |
| 12 |  |  |  |  | 7.3 | -13 | 325 | 5.6 | -4.2 | 0.3 | 2 | C |
| 13 |  |  |  |  | 6.9 | 30 | 311 | 2.7 | -2.0 | 3.5 | 4 | C |
| 14 |  |  |  |  | 7.1 | 2 | 339 | 4.9 | -1.7 | 0.8 | 4 | C |
| 15 |  |  |  |  | 6.6 | -5 | 322 | 4.7 | -3.6 | 0.7 | 2 | C |
| 16 |  |  |  |  | 7.1 | -10 | 336 | 5.7 | -2.7 | -0.4 | 2 | C |
| 17 |  |  |  |  | 7.4 | -14 | 312 | 3.7 | -4.3 | -0.4 | 4 | C |
| 18 |  |  |  |  | 7.2 | -38 | 323 | 4.2 | -3.9 | -3.5 | 2 | C |
| 19 |  |  |  |  | 6.2 | -10 | 314 | 3.3 | -3.5 | -0.4 | 3 | C |
| 20 |  |  |  |  | 5.6 | 4 | 331 | 3.8 | -2.1 | 0.5 | 3 | C |
| 21 |  |  |  |  | 5.4 | -2 | 351 | 5.0 | -0.8 | -0.2 | 1 | C |
| 22 |  |  |  |  | 5.4 | 14 | 336 | 4.4 | -2.0 | 1.3 | 2 | C |
| 23 |  |  |  |  | 5.5 | 25 | 306 | 2.3 | -3.1 | 1.9 | 3 | C |
| 24 |  |  |  |  | 5.5 | 3 | 38 | 3.7 | 2.9 | 0.2 | 2 | C |

NOV. 19, 1983 323

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  | 5.6 | -25 | 354 | 4.4 | -0.6 | -2.0 | 2 | C |
|  |  |  |  |  | 5.5 | -1 | 339 | 4.6 | -1.8 | 0.1 | 2 | C |
|  |  |  |  |  | 5.2 | 3 | 354 | 4.1 | -0.4 | 0.3 | 3 | C |
|  |  |  |  |  | 5.1 | -27 | 346 | 3.7 | -1.3 | -1.8 | 2 | C |
|  |  |  |  |  | 5.0 | 17 | 307 | 2.3 | -2.6 | 1.8 | 2 | C |
|  |  |  |  |  | 5.0 | -5 | 297 | 1.8 | -3.5 | 0.8 | 2 | C |
|  |  |  |  |  | 4.6 | 23 | 307 | 1.4 | -1.3 | 1.5 | 3 | C |
|  |  |  |  |  | 5.0 | 33 | 314 | 1.8 | -1.1 | 2.3 | 3 | C |
|  |  |  |  |  | 5.4 | 19 | 326 | 3.1 | -1.4 | 2.0 | 3 | C |
|  |  |  |  |  | 6.2 | -10 | 301 | 2.9 | -4.8 | 1.2 | 2 | C |
|  |  |  |  |  | 5.8 | 25 | 62 | 1.5 | 3.2 | 0.2 | 4 | C |
|  |  |  |  |  | 4.8 | -45 | 355 | 2.7 | -1.3 | -2.4 | 3 | C |
|  |  |  |  |  | 6.5 | -4 | 312 | 3.7 | -3.9 | 1.3 | 2 | C |
|  |  |  |  |  | 6.6 | 37 | 306 | 2.5 | -2.1 | 4.3 | 3 | C |
|  |  |  |  |  | 6.6 | 0 | 320 | 4.2 | -3.4 | 1.2 | 2 | C |
|  |  |  |  |  | 6.6 | 13 | 314 | 3.3 | -3.0 | 2.0 | 4 | C |
|  |  |  |  |  | 5.8 | 34 | 312 | 3.0 | -2.5 | 3.7 | 1 | C |
|  |  |  |  |  | 6.2 | 0 | 317 | 4.0 | -3.7 | 0.6 | 2 | C |
|  |  |  |  |  | 7.1 | 27 | 327 | 4.8 | -2.7 | 3.2 | 2 | C |
|  |  |  |  |  | 6.4 | -32 | 40 | 2.2 | 1.6 | -1.9 | 5 | C |
|  |  |  |  |  | 6.0 | 52 | 35 | 1.7 | 1.3 | 2.6 | 4 | C |
|  |  |  |  |  | 6.0 | 1 | 301 | 2.3 | -3.8 | 0.2 | 3 | C |
|  |  |  |  |  | 6.0 | 27 | 300 | 2.2 | -3.8 | 2.3 | 2 | C |
|  |  |  |  |  | 4.7 | 57 | 16 | 1.2 | 0.4 | 1.8 | 4 | C |

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11/20/83 – 11/27/83

NOV. 20, 1983 324

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 4.1 | 12 | 351 | 2.5 | -0.4 | 0.6 | 3 | C |
| 2 | | | | | 4.3 | -37 | 354 | 3.0 | -0.5 | -2.2 | 2 | C |
| 3 | | | | | 5.0 | -3 | 322 | 3.7 | -2.9 | 0.1 | 1 | C |
| 4 | | | | | 5.3 | -9 | 332 | 3.4 | -1.9 | -0.3 | 3 | C |
| 5 | | | | | 5.8 | -20 | 318 | 3.1 | -3.1 | -0.8 | 3 | C |
| 6 | | | | | 6.4 | 4 | 313 | 3.5 | -3.6 | 1.4 | 3 | C |
| 7 | | | | | 7.5 | 28 | 277 | 0.8 | -4.5 | 5.0 | 2 | C |
| 8 | | | | | 7.3 | -11 | 310 | 2.9 | -3.6 | 0.5 | 5 | C |
| 9 | | | | | 6.6 | -17 | 326 | 4.0 | -3.1 | -0.2 | 4 | C |
| 10 | | | | | 6.2 | -26 | 358 | 4.3 | -1.0 | -1.8 | 3 | C |
| 11 | | | | | 5.9 | -22 | 6 | 4.9 | -0.4 | -2.1 | 2 | C |
| 12 | | | | | 6.0 | -23 | 26 | 4.3 | 1.1 | -2.7 | 3 | C |
| 13 | | | | | 6.1 | -5 | 356 | 5.0 | -0.5 | -0.3 | 3 | C |
| 14 | | | | | 6.2 | 15 | 326 | 3.8 | -2.0 | 2.0 | 3 | C |
| 15 | | | | | 6.6 | 8 | 331 | 5.1 | -2.4 | 1.6 | 2 | C |
| 16 | | | | | 6.6 | 1 | 331 | 4.3 | -2.3 | 0.8 | 4 | C |
| 17 | | | | | 6.4 | 45 | 52 | 2.1 | 3.4 | 2.8 | 3 | C |
| 18 | | | | | 5.9 | -2 | 31 | 3.9 | 2.3 | -0.5 | 3 | C |
| 19 | | | | | 4.4 | 31 | 44 | 1.0 | 1.0 | 0.7 | 4 | C |
| 20 | | | | | 4.4 | 13 | 332 | 2.1 | -1.1 | 0.6 | 3 | C |
| 21 | | | | | 3.8 | -1 | 352 | 2.0 | -0.3 | -0.0 | 3 | C |
| 22 | | | | | 4.4 | 6 | 267 | -0.2 | -3.3 | 0.4 | 2 | C |
| 23 | | | | | 4.4 | -45 | 332 | 1.4 | -2.3 | -2.6 | 2 | C |
| 24 | | | | | 4.5 | 18 | 338 | 3.3 | -1.3 | 1.2 | 2 | C |

NOV. 21, 1983 325

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 4.7 | -15 | 292 | 1.5 | -3.7 | -0.9 | 2 | C |
| 2 | | | | | 4.7 | -5 | 309 | 2.6 | -3.3 | -0.1 | 1 | C |
| 3 | | | | | 4.5 | 3 | 285 | 1.1 | -3.9 | 0.6 | 2 | C |
| 4 | | | | | 4.1 | 5 | 314 | 2.4 | -2.4 | 0.7 | 2 | C |
| 5 | | | | | 4.2 | 11 | 342 | 3.8 | -1.0 | 1.0 | 1 | C |
| 6 | | | | | 4.2 | 13 | 347 | 4.0 | -0.6 | 1.1 | 0 | C |
| 7 | | | | | 4.0 | 19 | 349 | 3.7 | -0.2 | 1.4 | 1 | C |
| 8 | | | | | 2.2 | 26 | 287 | 0.4 | -1.0 | 1.1 | 2 | C |
| 9 | | | | | 3.0 | 5 | 273 | 0.1 | -2.0 | 1.1 | 2 | C |
| 10 | | | | | 3.0 | 13 | 256 | -0.6 | -2.1 | 1.6 | 1 | C |
| 11 | | | | | 3.5 | 20 | 280 | 0.4 | -1.9 | 1.9 | 2 | C |
| 12 | | | | | 3.5 | -15 | 285 | 0.7 | -2.7 | 0.4 | 2 | C |
| 13 | | | | | 4.0 | -27 | 248 | -1.2 | -3.3 | -0.4 | 2 | C |
| 14 | | | | | 4.4 | -11 | 232 | -2.3 | -3.0 | 0.4 | 2 | C |
| 15 | | | | | 4.7 | 0 | 226 | -3.2 | -3.1 | 1.1 | 1 | C |
| 16 | | | | | 4.2 | -28 | 304 | 1.3 | -2.2 | -0.7 | 3 | C |
| 17 | | | | | 4.8 | -2 | 204 | -2.6 | -1.2 | 0.1 | 4 | C |
| 18 | | | | | 4.3 | -22 | 267 | -0.1 | -3.0 | -0.7 | 3 | C |
| 19 | | | | | 3.8 | -10 | 316 | 2.5 | -2.4 | -0.3 | 1 | C |
| 20 | | | | | 3.0 | -15 | 234 | -1.4 | -2.0 | -0.5 | 2 | C |
| 21 | | | | | 3.5 | -2 | 258 | -0.6 | -2.9 | 0.0 | 1 | C |
| 22 | | | | | 3.4 | 3 | 273 | 0.1 | -3.0 | 0.2 | 1 | C |
| 23 | | | | | 3.9 | 10 | 247 | -1.1 | -2.7 | 0.5 | 2 | C |
| 24 | | | | | 4.2 | -16 | 294 | 1.6 | -3.5 | -1.1 | 1 | C |

NOV. 22, 1983 326

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.0 | 0 | 281 | 0.8 | -4.0 | 0.1 | 2 | C |
| 2 | | | | | 5.0 | -8 | 272 | 0.2 | -4.0 | -0.3 | 2 | C |
| 3 | | | | | 4.7 | 3 | 271 | 0.0 | -3.4 | 0.5 | 3 | C |
| 4 | | | | | 4.9 | 7 | 251 | -1.3 | -3.5 | 1.1 | 2 | C |
| 5 | | | | | 4.9 | -11 | 261 | -0.6 | -3.7 | 0.1 | 3 | C |
| 6 | 502 | 8.3 | 164 | L | 3.2 | -14 | 314 | 1.4 | -1.5 | -0.1 | 2 | C |
| 7 | | | | | 4.0 | -4 | 317 | 1.9 | -1.7 | 0.4 | 2 | C |
| 8 | | | | | 4.4 | 18 | 284 | 0.8 | -2.6 | 2.1 | 2 | C |
| 9 | 512 | 6.6 | 92 | J | 4.9 | -25 | 309 | 2.2 | -3.1 | -0.4 | 3 | J |
| 10 | 501 | 6.5 | 80 | J | 4.8 | -14 | 296 | 1.3 | -2.8 | 0.4 | 3 | J |
| 11 | 496 | 6.4 | 80 | J | 4.3 | 35 | 355 | 2.9 | 0.6 | 2.0 | 2 | J |
| 12 | 492 | 6.0 | 70 | J | 3.9 | 56 | 283 | 0.4 | -0.6 | 3.4 | 2 | J |
| 13 | 499 | 6.1 | 94 | J | 3.1 | 40 | 303 | 1.2 | -1.0 | 2.4 | 1 | J |
| 14 | | | | | 4.0 | 31 | 286 | 0.8 | -2.0 | 2.6 | 2 | C |
| 15 | 467 | 5.7 | 59 | J | 3.8 | 8 | 338 | 3.0 | -1.0 | 0.8 | 2 | J |
| 16 | 471 | 5.7 | 68 | J | 3.2 | 20 | 276 | 0.3 | -2.2 | 1.5 | 2 | J |
| 17 | 469 | 5.3 | 54 | J | 3.5 | 23 | 230 | -1.7 | -1.7 | 1.5 | 2 | J |
| 18 | 459 | 5.7 | 52 | J | 3.4 | 17 | 263 | -0.3 | -2.7 | 1.3 | 2 | J |
| 19 | 458 | 4.4 | 53 | J | 4.2 | -12 | 307 | 2.0 | -2.7 | -0.4 | 2 | J |
| 20 | 451 | 5.3 | 66 | J | 3.3 | -6 | 254 | -0.5 | -1.9 | -0.1 | 3 | J |
| 21 | 452 | 5.4 | 65 | J | 2.4 | 11 | 250 | -0.6 | -1.6 | 0.4 | 2 | J |
| 22 | 441 | 5.4 | 61 | J | 2.6 | 6 | 278 | 0.2 | -1.8 | 0.2 | 2 | J |
| 23 | 420 | 4.8 | 45 | J | 3.3 | -12 | 338 | 2.6 | -1.1 | -0.6 | 1 | J |
| 24 | 419 | 5.1 | 44 | J | 2.2 | -5 | 305 | 1.0 | -1.4 | -0.1 | 1 | J |

NOV. 23, 1983 327

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 415 | 5.6 | 41 | J | 2.7 | 48 | 322 | 1.1 | -0.8 | 1.5 | 2 | J |
| 2 | 414 | 6.2 | 30 | J | 3.5 | 51 | 348 | 1.9 | -0.3 | 2.4 | 2 | J |
| 3 | 403 | 5.7 | 37 | J | 3.4 | 22 | 327 | 2.3 | -1.4 | 1.2 | 2 | J |
| 4 | 411 | 6.4 | 34 | J | 3.9 | 35 | 291 | 0.9 | -2.1 | 2.2 | 2 | J |
| 5 | 406 | 6.0 | 35 | J | 3.7 | -7 | 324 | 2.6 | -1.9 | 0.0 | 2 | J |
| 6 | 404 | 6.2 | 35 | J | 3.5 | -23 | 319 | 1.9 | -1.9 | -0.6 | 2 | J |
| 7 | 400 | 6.6 | 33 | J | 3.7 | -12 | 298 | 1.4 | -2.7 | 0.2 | 2 | J |
| 8 | 359 | 5.2 | 27 | J | 3.4 | 5 | 295 | 1.2 | -2.3 | 1.2 | 2 | J |
| 9 | | | | | 3.1 | 19 | 291 | 1.0 | -2.0 | 1.9 | 1 | J |
| 10 | | | | | 3.2 | 10 | 310 | 2.0 | -2.0 | 1.5 | 0 | C |
| 11 | 354 | 6.1 | 34 | J | 3.4 | 11 | 315 | 2.2 | -1.7 | 1.4 | 1 | J |
| 12 | 350 | 6.6 | 38 | J | 3.4 | 18 | 310 | 2.0 | -1.8 | 1.9 | 1 | J |
| 13 | 385 | 7.0 | 38 | J | 3.5 | 10 | 310 | 2.1 | -2.1 | 1.5 | 1 | J |
| 14 | 375 | 7.8 | 24 | J | 3.4 | 11 | 313 | 2.2 | -2.0 | 1.4 | 1 | J |
| 15 | 373 | 8.2 | 22 | J | 3.4 | 20 | 297 | 1.4 | -2.3 | 1.9 | 0 | J |
| 16 | 370 | 8.4 | 23 | J | 3.6 | 16 | 319 | 2.5 | -1.9 | 1.5 | 1 | J |
| 17 | 372 | 9.5 | 22 | J | 3.7 | 46 | 323 | 2.0 | -1.0 | 2.8 | 1 | J |
| 18 | 371 | 10.0 | 25 | J | 3.9 | 20 | 302 | 1.7 | -2.5 | 1.6 | 2 | J |
| 19 | 362 | 9.5 | 23 | J | 4.3 | -5 | 311 | 2.5 | -3.0 | -0.0 | 2 | J |
| 20 | 375 | 12.0 | 21 | J | 4.3 | 49 | 312 | 1.9 | -1.9 | 3.4 | 0 | J |
| 21 | 373 | 12.2 | 21 | J | 4.2 | 73 | 260 | -0.2 | -1.0 | 3.8 | 2 | J |
| 22 | 370 | 12.1 | 19 | J | 3.8 | 71 | 242 | -0.6 | -1.0 | 3.4 | 1 | J |
| 23 | 359 | 12.8 | 18 | J | 3.2 | 48 | 211 | -1.6 | -1.0 | 2.1 | 2 | J |
| 24 | 359 | 13.0 | 18 | J | 2.7 | -7 | 205 | -2.2 | -1.0 | -0.3 | 1 | J |

NOV. 24, 1983 328

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 353 | 13.7 | 18 | J | 1.6 | -41 | 229 | -1.1 | -0.6 | -1.0 | 0 | J |
| 2 | 350 | 14.5 | 18 | J | 1.7 | -42 | 211 | -1.1 | -0.7 | -1.1 | 0 | J |
| 3 | 351 | 15.2 | 18 | J | 2.5 | -52 | 203 | -1.4 | -0.8 | -1.9 | 1 | J |
| 4 | 351 | 15.6 | 18 | J | 3.3 | -57 | 222 | -1.3 | -1.5 | -2.4 | 1 | J |
| 5 | 348 | 16.6 | 29 | J | 4.0 | -18 | 219 | -3.0 | -2.6 | -0.7 | 1 | J |
| 6 | | | | | 3.9 | -61 | 357 | 1.9 | -1.0 | -3.2 | 0 | C |
| 7 | | | | | 4.3 | -81 | 321 | 0.5 | -1.7 | -3.8 | 1 | C |
| 8 | | | | | 4.7 | -71 | 102 | -0.3 | -0.2 | -4.6 | 1 | C |
| 9 | | | | | 5.3 | -28 | 118 | -1.7 | 2.2 | -3.0 | 3 | C |
| 10 | | | | | 6.9 | 48 | 133 | -3.0 | 5.0 | 3.2 | 2 | C |
| 11 | 345 | 26.6 | 39 | J | 5.5 | 63 | 143 | -1.9 | 3.2 | 3.7 | 2 | J |
| 12 | 348 | 29.6 | 45 | J | 4.2 | 32 | 98 | -0.4 | 3.6 | 0.6 | 3 | J |
| 13 | 352 | 23.3 | 45 | J | 7.3 | 9 | 97 | -0.8 | 6.7 | -1.5 | 2 | J |
| 14 | 351 | 24.0 | 42 | J | 8.2 | 11 | 101 | -1.5 | 7.6 | -1.1 | 3 | J |
| 15 | 358 | 24.5 | 43 | J | 8.8 | -27 | 128 | -3.9 | 3.8 | -4.5 | 5 | J |
| 16 | 350 | 25.2 | 52 | J | 9.4 | 10 | 143 | -7.3 | 5.7 | 0.2 | 2 | J |
| 17 | 369 | 18.4 | 54 | J | 9.5 | 18 | 157 | -7.5 | 3.7 | 2.0 | 1 | J |
| 18 | 375 | 13.0 | 57 | J | 10.6 | -15 | 132 | -5.8 | 6.0 | -3.2 | 6 | J |
| 19 | 396 | 11.3 | 103 | J | 10.6 | -33 | 129 | -5.4 | 6.2 | -6.2 | 3 | J |
| 20 | 405 | 11.7 | 117 | J | 10.0 | 14 | 127 | -5.0 | 6.8 | 1.7 | 5 | J |
| 21 | 413 | 10.1 | 104 | J | 10.7 | 13 | 119 | -4.6 | 8.3 | 2.0 | 4 | J |
| 22 | 408 | 9.4 | 86 | J | 11.0 | 7 | 131 | -6.9 | 7.9 | 1.3 | 2 | J |
| 23 | 410 | 10.2 | 109 | J | 10.9 | 16 | 132 | -6.6 | 7.3 | 3.0 | 4 | J |
| 24 | 406 | 10.0 | 83 | J | 10.9 | 18 | 132 | -6.4 | 7.1 | 3.2 | 4 | J |

NOV. 25, 1983 329

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 10.5 | 78 | J | 11.7 | -4 | 155 | -9.7 | 4.5 | -0.8 | 5 | J |
| 2 | 408 | 11.7 | 95 | J | 11.2 | 12 | 143 | -6.3 | 4.8 | 1.5 | 8 | J |
| 3 | 410 | 10.3 | 67 | J | 11.0 | -6 | 140 | -8.0 | 6.6 | -1.7 | 3 | J |
| 4 | 429 | 12.5 | 135 | J | 10.1 | -22 | 151 | -6.3 | 3.1 | -3.4 | 6 | J |
| 5 | 437 | 12.8 | 122 | J | 10.1 | -14 | 160 | -7.7 | 2.3 | -2.5 | 6 | J |
| 6 | 448 | 12.6 | 121 | J | 9.7 | -26 | 208 | -6.1 | -4.0 | -2.4 | 6 | J |
| 7 | 449 | 12.3 | 169 | J | 8.9 | -36 | 188 | -5.9 | -2.1 | -3.9 | 5 | J |
| 8 | 439 | 12.2 | 180 | J | 8.7 | -1 | 189 | -7.7 | -1.2 | 0.3 | 4 | J |
| 9 | 446 | 11.9 | 160 | J | 8.7 | -27 | 192 | -6.3 | -2.5 | -2.5 | 5 | J |
| 10 | | | | | 8.7 | -27 | 147 | -3.8 | 1.4 | -3.1 | 6 | C |
| 11 | | | | | 9.0 | 17 | 138 | -5.7 | 5.6 | 0.1 | 3 | C |
| 12 | | | | | 9.2 | -5 | 141 | -6.4 | 4.6 | -2.6 | 3 | C |
| 13 | 444 | 11.2 | 123 | J | 9.7 | 0 | 130 | -5.4 | 6.0 | -2.4 | 5 | J |
| 14 | 443 | 10.7 | 137 | J | 9.5 | 6 | 115 | -3.7 | 7.8 | -1.7 | 4 | J |
| 15 | 434 | 12.2 | 145 | J | 9.8 | 23 | 131 | -5.3 | 6.8 | 1.5 | 4 | J |
| 16 | 440 | 12.2 | 140 | J | 10.0 | 32 | 122 | -4.4 | 8.2 | 3.4 | 1 | J |
| 17 | 479 | 11.9 | 151 | J | 9.8 | 38 | 80 | 1.1 | 7.4 | 3.9 | 5 | J |
| 18 | 465 | 12.1 | 154 | J | 9.9 | 30 | 118 | -3.5 | 7.2 | 3.4 | 5 | J |
| 19 | 459 | 12.9 | 203 | J | 9.2 | -14 | 123 | -4.2 | 6.2 | -2.5 | 4 | J |
| 20 | 457 | 12.1 | 162 | J | 9.3 | -6 | 120 | -4.0 | 6.8 | -1.1 | 5 | J |
| 21 | 450 | 11.3 | 153 | J | 9.5 | -27 | 114 | -3.1 | 7.0 | -4.0 | 4 | J |
| 22 | 471 | 13.2 | 173 | J | 8.7 | 21 | 111 | -1.9 | 4.9 | 2.1 | 6 | J |
| 23 | 484 | 12.2 | 130 | J | 9.3 | -26 | 82 | 1.0 | 7.2 | -3.3 | 5 | J |
| 24 | | | | | 8.6 | -33 | 123 | -3.4 | 5.3 | -3.9 | 3 | C |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 479 | 9.9 | 116 | J | 8.2 | -28 | 90 | 0.0 | 6.7 | -3.6 | 3 | J |
| 2 | 463 | 10.5 | 164 | J | 7.4 | -21 | 113 | -2.6 | 6.0 | -2.7 | 2 | J |
| 3 | | | | | 7.5 | -26 | 140 | -4.7 | 3.7 | -3.3 | 2 | C |
| 4 | | | | | 7.6 | -3 | 114 | -2.9 | 6.6 | -1.2 | 1 | C |
| 5 | | | | | 7.2 | -12 | 165 | -5.3 | 1.2 | -1.4 | 4 | C |
| 6 | | | | | 6.9 | -20 | 131 | -3.1 | 3.0 | -2.5 | 4 | C |
| 7 | 484 | 7.6 | 92 | J | 6.7 | -24 | 93 | -0.3 | 4.6 | -4.0 | 3 | J |
| 8 | 469 | 7.7 | 88 | J | 6.6 | -8 | 115 | -2.3 | 4.3 | -2.4 | 4 | J |
| 9 | 455 | 7.5 | 73 | J | 6.3 | 22 | 153 | -4.4 | 2.8 | 1.0 | 3 | J |
| 10 | 465 | 7.5 | 84 | J | 6.1 | 12 | 151 | -2.5 | 1.5 | 0.0 | 5 | J |
| 11 | 446 | 7.1 | 72 | J | 6.3 | 5 | 184 | -5.7 | -0.2 | 0.6 | 3 | J |
| 12 | 455 | 7.4 | 79 | J | 6.5 | -29 | 197 | -4.9 | -2.5 | -2.1 | 3 | J |
| 13 | 445 | 7.1 | 78 | J | 6.3 | -7 | 168 | -5.3 | 0.8 | -1.0 | 3 | J |
| 14 | 443 | 7.2 | 85 | J | 6.2 | 5 | 145 | -4.5 | 3.1 | -0.6 | 3 | J |
| 15 | 431 | 7.5 | 109 | J | 6.4 | -6 | 152 | -5.2 | 2.5 | -1.4 | 2 | J |
| 16 | 443 | 7.9 | 91 | J | 6.4 | -7 | 130 | -3.6 | 4.1 | -1.7 | 3 | J |
| 17 | 449 | 8.1 | 85 | J | 6.5 | -26 | 120 | -2.5 | 3.8 | -3.2 | 3 | J |
| 18 | 429 | 7.9 | 100 | J | 6.7 | 22 | 145 | -5.0 | 3.8 | 2.0 | 1 | J |
| 19 | 433 | 8.0 | 78 | J | 6.4 | -3 | 136 | -3.6 | 3.4 | -0.5 | 4 | J |
| 20 | 410 | 6.5 | 39 | J | 6.4 | -15 | 166 | -5.3 | 1.3 | -1.5 | 3 | J |
| 21 | 402 | 6.8 | 38 | J | 7.0 | -12 | 197 | -6.3 | -1.9 | -1.4 | 2 | J |
| 22 | 404 | 6.7 | 42 | J | 6.6 | -2 | 185 | -6.3 | -0.5 | -0.2 | 2 | J |
| 23 | 400 | 6.3 | 43 | J | 6.3 | 3 | 181 | -6.1 | -0.1 | 0.3 | 1 | J |
| 24 | 395 | 6.3 | 45 | J | 6.1 | 7 | 175 | -5.8 | 0.5 | 0.7 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 6.4 | 51 | J | 6.0 | 7 | 178 | -5.8 | 0.2 | 0.7 | 1 | J |
| 2 | 389 | 6.5 | 57 | J | 6.1 | 0 | 165 | -5.6 | 1.5 | -0.1 | 2 | J |
| 3 | 385 | 7.7 | 79 | J | 6.3 | 7 | 174 | -5.8 | 0.7 | 0.7 | 2 | J |
| 4 | 382 | 7.9 | 81 | J | 6.6 | 9 | 164 | -6.0 | 1.8 | 0.8 | 2 | J |
| 5 | 379 | 7.6 | 52 | J | 6.4 | -12 | 164 | -5.4 | 1.3 | -1.4 | 3 | J |
| 6 | 400 | 7.8 | 45 | J | 6.3 | 3 | 111 | -2.0 | 5.2 | -1.0 | 3 | J |
| 7 | 405 | 8.5 | 41 | J | 7.1 | 30 | 109 | -1.5 | 4.8 | 1.2 | 5 | J |
| 8 | 403 | 8.6 | 49 | J | 7.5 | -17 | 120 | -3.5 | 5.0 | -4.0 | 2 | J |
| 9 | 399 | 9.1 | 48 | J | 7.9 | -20 | 108 | -2.2 | 5.4 | -5.0 | 2 | J |
| 10 | 383 | 9.0 | 65 | J | 7.9 | -13 | 132 | -5.0 | 4.5 | -3.7 | 1 | J |
| 11 | 375 | 8.0 | 37 | J | 7.9 | -15 | 156 | -6.3 | 1.9 | -2.8 | 3 | J |
| 12 | 374 | 7.8 | 36 | J | 6.9 | -16 | 175 | -5.8 | -0.2 | -1.8 | 3 | J |
| 13 | 399 | 9.2 | 86 | J | 7.2 | -29 | 158 | -3.6 | 0.6 | -2.5 | 6 | J |
| 14 | 405 | 10.1 | 84 | J | 6.3 | -41 | 177 | -3.8 | -0.9 | -3.2 | 4 | J |
| 15 | 419 | 9.6 | 81 | J | 5.7 | 43 | 102 | -0.9 | 5.0 | 2.6 | 0 | J |
| 16 | | | | | 7.3 | 39 | 88 | 0.1 | 6.4 | 3.1 | 1 | C |
| 17 | | | | | 8.1 | 25 | 68 | 2.6 | 6.9 | 2.0 | 2 | C |
| 18 | 435 | 9.2 | 44 | J | 8.2 | 35 | 69 | 2.2 | 6.3 | 3.6 | 3 | J |
| 19 | 433 | 9.5 | 31 | J | 8.5 | 34 | 61 | 3.1 | 6.0 | 3.9 | 3 | J |
| 20 | 426 | 6.2 | 57 | J | 9.1 | 25 | 51 | 5.0 | 6.2 | 3.5 | 3 | J |
| 21 | 438 | 6.3 | 136 | J | 8.0 | 55 | 47 | 2.9 | 3.0 | 6.0 | 3 | J |
| 22 | 434 | 6.3 | 127 | J | 7.9 | 55 | 46 | 2.9 | 2.9 | 6.1 | 3 | J |
| 23 | 435 | 7.4 | 146 | J | 6.3 | 71 | 1 | 1.8 | -0.2 | 5.2 | 3 | J |
| 24 | 425 | 7.8 | 126 | J | 5.6 | 74 | 23 | 0.9 | 0.3 | 3.4 | 4 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 441 | 7.4 | 124 | J | 7.2 | 46 | 156 | -4.4 | 1.9 | 5.0 | 2 | J |
| 2 | 399 | 5.6 | 55 | J | 8.1 | 53 | 55 | 2.3 | 3.4 | 5.4 | 4 | J |
| 3 | 385 | 6.1 | 58 | J | 8.4 | 51 | 46 | 3.5 | 4.0 | 5.9 | 3 | J |
| 4 | 377 | 9.3 | 59 | J | 7.4 | 61 | 51 | 2.2 | 3.4 | 5.9 | 2 | J |
| 5 | 390 | 9.1 | 62 | J | 6.6 | 79 | 61 | 0.6 | 2.1 | 5.8 | 3 | J |
| 6 | 390 | 13.4 | 52 | J | 5.9 | 71 | 141 | -1.4 | 2.3 | 4.8 | 2 | J |
| 7 | 395 | 14.4 | 44 | J | 6.2 | 21 | 112 | -2.1 | 5.6 | 0.6 | 2 | J |
| 8 | 398 | 19.4 | 46 | J | 6.3 | 22 | 137 | -4.1 | 4.3 | 0.9 | 2 | J |
| 9 | 404 | 23.3 | 49 | J | 4.9 | 76 | 83 | 0.1 | 2.2 | 3.2 | 3 | J |
| 10 | 401 | 21.2 | 44 | J | 6.6 | 60 | 163 | -2.8 | 2.7 | 4.4 | 3 | J |
| 11 | 400 | 26.0 | 36 | J | 8.3 | 39 | 164 | -5.9 | 3.4 | 4.0 | 3 | J |
| 12 | 398 | 28.3 | 36 | J | 9.7 | 43 | 162 | -6.6 | 4.4 | 5.2 | 2 | J |
| 13 | 433 | 53.1 | 61 | J | 10.5 | 49 | 174 | -6.3 | 3.1 | 6.6 | 4 | J |
| 14 | 438 | 60.1 | 75 | J | 13.6 | -7 | 135 | -2.7 | 2.4 | -1.3 | 13 | J |
| 15 | 439 | 59.8 | 67 | J | 9.8 | -4 | 334 | 1.9 | -2.8 | 0.5 | 10 | J |
| 16 |  |  |  |  | 18.2 | -25 | 83 | 1.9 | 12.9 | -10.1 | 6 | C |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 621 | 11.0 | 446 | J | 12.0 | -6 | 309 | 5.5 | -6.8 | -0.8 | 8 | J |
| 21 | 617 | 10.6 | 355 | J | 10.6 | 31 | 316 | 4.9 | -4.8 | 4.1 | 7 | J |
| 22 | 608 | 7.8 | 277 | J | 8.9 | 18 | 321 | 5.5 | -4.6 | 2.2 | 5 | J |
| 23 | 582 | 8.5 | 323 | J | 10.0 | 1 | 335 | 8.8 | -4.1 | -0.0 | 2 | J |
| 24 |  |  |  |  | 11.0 | -30 | 346 | 9.2 | -2.1 | -5.6 | 1 | J |

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  | 10.8 | -18 | 341 | 7.8 | -2.6 | -2.8 | 6 | J |
| 2 |  |  |  |  | 10.4 | -6 | 308 | 5.6 | -7.2 | -0.9 | 5 | J |
| 3 |  |  |  |  | 10.0 | -2 | 333 | 8.5 | -4.4 | -0.2 | 2 | C |
| 4 |  |  |  |  | 10.2 | -1 | 323 | 7.3 | -5.5 | 0.4 | 3 | C |
| 5 |  |  |  |  | 9.6 | 28 | 315 | 5.3 | -4.5 | 4.7 | 4 | C |
| 6 |  |  |  |  | 9.5 | 21 | 312 | 4.6 | -4.5 | 3.8 | 5 | C |
| 7 |  |  |  |  | 8.5 | -12 | 320 | 6.0 | -5.3 | -0.3 | 2 | C |
| 8 |  |  |  |  | 7.8 | -13 | 286 | 1.8 | -6.7 | 0.6 | 2 | C |
| 9 |  |  |  |  | 7.6 | -4 | 321 | 4.5 | -3.6 | 0.9 | 4 | C |
| 10 |  |  |  |  | 7.5 | 15 | 308 | 3.7 | -3.9 | 3.2 | 4 | C |
| 11 |  |  |  |  | 7.4 | 31 | 333 | 5.1 | -1.1 | 4.2 | 3 | C |
| 12 |  |  |  |  | 7.0 | -27 | 332 | 4.7 | -3.3 | -1.7 | 3 | C |
| 13 |  |  |  |  | 6.7 | -47 | 310 | 2.4 | -4.1 | -2.9 | 3 | C |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  | 6.0 | 18 | 8 | 4.1 | 0.9 | 1.2 | 3 | C |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  | 6.7 | -1 | 281 | 1.1 | -5.6 | -0.2 | 2 | C |
| 22 |  |  |  |  | 5.9 | 8 | 297 | 2.2 | -4.3 | 0.5 | 2 | C |
| 23 |  |  |  |  | 5.4 | 42 | 2 | 3.2 | -0.1 | 2.8 | 3 | C |
| 24 |  |  |  |  | 5.4 | -16 | 350 | 4.3 | -0.7 | -1.3 | 3 | C |

DEC. 2, 1983 336

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  | 4.4 | 12 | 18 | 3.0 | 1.0 | 0.7 | 3 | C |
| 2 |  |  |  |  | 4.2 | -12 | 349 | 3.9 | -0.7 | -0.9 | 1 | C |
| 3 |  |  |  |  | 4.4 | 16 | 347 | 3.8 | -0.9 | 1.1 | 2 | C |
| 4 |  |  |  |  | 4.2 | -10 | 345 | 2.6 | -0.8 | -0.4 | 3 | C |
| 5 |  |  |  |  | 4.3 | 21 | 305 | 1.6 | -2.1 | 1.5 | 3 | C |
| 6 |  |  |  |  | 4.3 | 26 | 342 | 2.9 | -0.6 | 1.7 | 2 | C |
| 7 |  |  |  |  | 3.7 | 11 | 348 | 2.7 | -0.4 | 0.7 | 2 | C |
| 8 |  |  |  |  | 4.6 | 42 | 258 | -0.7 | -2.1 | 3.7 | 1 | C |
| 9 |  |  |  |  | 4.8 | 27 | 245 | -1.6 | -2.7 | 3.1 | 1 | C |
| 10 |  |  |  |  | 4.5 | 29 | 268 | -0.1 | -2.5 | 3.0 | 2 | C |
| 11 |  |  |  |  | 4.2 | 23 | 242 | -1.5 | -2.2 | 2.3 | 2 | C |
| 12 |  |  |  |  | 4.0 | 48 | 250 | -0.8 | -1.2 | 3.2 | 1 | C |
| 13 |  |  |  |  | 4.4 | 55 | 296 | 1.0 | -0.9 | 3.6 | 2 | C |
| 14 |  |  |  |  | 4.5 | -21 | 353 | 3.6 | -0.8 | -1.2 | 2 | C |
| 15 |  |  |  |  | 4.8 | -3 | 287 | 0.7 | -2.4 | 0.4 | 3 | C |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  | 4.6 | 10 | 311 | 2.9 | -3.4 | 0.6 | 1 | C |
| 22 |  |  |  |  | 4.5 | 10 | 324 | 3.3 | -2.4 | 0.6 | 1 | C |
| 23 |  |  |  |  | 4.5 | 9 | 330 | 3.8 | -2.2 | 0.6 | 1 | C |
| 24 |  |  |  |  | 4.7 | 2 | 323 | 3.7 | -2.8 | -0.0 | 0 | C |

DEC. 4, 1983 338

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  | 3.7 | 4 | 282 | 0.5 | -2.4 | 0.0 | 3 | C |
| 2 |  |  |  |  | 4.0 | -28 | 343 | 3.3 | -1.0 | -1.9 | 1 | C |
| 3 |  |  |  |  | 3.9 | -22 | 330 | 3.1 | -1.8 | -1.4 | 0 | C |
| 4 |  |  |  |  | 4.0 | -9 | 329 | 3.3 | -2.1 | -0.4 | 1 | C |
| 5 |  |  |  |  | 4.2 | -34 | 323 | 2.6 | -2.2 | -1.9 | 1 | C |
| 6 |  |  |  |  | 4.0 | -12 | 311 | 2.5 | -2.9 | -0.3 | 1 | C |
| 7 |  |  |  |  | 4.1 | -18 | 332 | 3.3 | -2.1 | -0.8 | 1 | C |
| 8 |  |  |  |  | 4.3 | 19 | 309 | 2.6 | -2.6 | 2.3 | 1 | C |
| 9 |  |  |  |  | 4.1 | 4 | 327 | 3.4 | -2.0 | 1.0 | 1 | C |
| 10 |  |  |  |  | 4.2 | -21 | 341 | 3.6 | -1.7 | -1.0 | 1 | C |
| 11 |  |  |  |  | 4.5 | -33 | 347 | 3.6 | -1.6 | -2.0 | 1 | C |
| 12 |  |  |  |  | 4.4 | -14 | 339 | 3.8 | -1.7 | -0.5 | 1 | C |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  | 6.1 | 74 | 227 | -1.1 | -1.3 | 5.8 | 0 | C |
| 21 |  |  |  |  | 6.2 | 79 | 260 | -0.2 | -1.4 | 5.5 | 2 | C |
| 22 |  |  |  |  | 4.6 | 46 | 112 | -1.0 | 2.2 | 2.9 | 2 | C |
| 23 |  |  |  |  | 5.4 | 87 | 329 | 0.3 | -0.6 | 5.1 | 1 | C |
| 24 |  |  |  |  | 7.6 | 75 | 150 | -1.6 | 0.3 | 6.9 | 2 | C |

NOV. 29, 1983 333

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 609 | 8.8 | 166 | J | 11.4 | -15 | 336 | 9.7 | -4.3 | -2.9 | 3 | J |
| 2 | 621 | 9.1 | 209 | J | 12.0 | 4 | 304 | 5.9 | -8.7 | 0.8 | 6 | J |
| 3 | 602 | 7.3 | 187 | J | 13.6 | -1 | 321 | 10.2 | -8.2 | 0.2 | 3 | J |
| 4 | 585 | 7.4 | 227 | J | 13.6 | -1 | 328 | 11.1 | -6.9 | 0.5 | 4 | J |
| 5 | 603 | 8.7 | 319 | J | 12.7 | 9 | 296 | 5.0 | -9.8 | 3.5 | 5 | J |
| 6 | 591 | 9.6 | 268 | J | 13.7 | 4 | 311 | 8.0 | -8.7 | 2.9 | 6 | J |
| 7 | 586 | 11.4 | 264 | J | 13.7 | 12 | 315 | 8.6 | -7.5 | 4.9 | 6 | J |
| 8 | 631 | 10.8 | 399 | J | 11.6 | 68 | 316 | 1.4 | 0.3 | 4.9 | 11 | J |
| 9 |  |  |  |  | 11.5 | -6 | 319 | 8.2 | -7.0 | 1.4 | 3 | C |
| 10 |  |  |  |  | 10.0 | -19 | 335 | 5.7 | -3.2 | -1.0 | 7 | C |
| 11 |  |  |  |  | 9.4 | 27 | 316 | 4.1 | -2.6 | 4.3 | 6 | C |
| 12 |  |  |  |  | 10.7 | -20 | 318 | 6.1 | -6.3 | -0.8 | 4 | C |
| 13 |  |  |  |  | 10.9 | -26 | 342 | 8.7 | -4.1 | -3.3 | 3 | C |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  | 10.0 | -1 | 315 | 5.4 | -5.3 | 1.3 | 5 | C |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 689 | 7.6 | 243 | J | 10.3 | 41 | 317 | 4.7 | -3.4 | 6.2 | 6 | J |
| 18 | 665 | 7.8 | 258 | J | 10.1 | 16 | 320 | 6.6 | -5.2 | 3.0 | 4 | J |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  | 8.9 | 21 | 17 | 7.5 | 2.2 | 3.0 | 3 | J |
| 22 |  |  |  |  | 9.0 | 29 | 63 | 3.3 | 6.3 | 4.3 | 4 | J |
| 23 |  |  |  |  | 8.8 | -19 | 289 | 2.1 | -6.1 | -2.6 | 5 | C |
| 24 |  |  |  |  | 9.3 | -8 | 329 | 6.7 | -4.0 | -1.3 | 4 | C |

DEC. 1, 1983 335

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  | 5.6 | -13 | 309 | 2.8 | -3.4 | -1.2 | 3 | C |
| 2 |  |  |  |  | 5.8 | -6 | 290 | 1.6 | -4.3 | -0.5 | 3 | C |
| 3 |  |  |  |  | 6.1 | -6 | 321 | 4.0 | -3.3 | -0.5 | 3 | C |
| 4 |  |  |  |  | 6.1 | 10 | 297 | 2.2 | -4.3 | 1.3 | 3 | C |
| 5 |  |  |  |  | 6.0 | -2 | 290 | 1.9 | -5.2 | 0.6 | 2 | C |
| 6 |  |  |  |  | 6.2 | -30 | 349 | 5.2 | -1.7 | -2.8 | 1 | C |
| 7 |  |  |  |  | 5.1 | 12 | 279 | 0.6 | -3.2 | 1.7 | 3 | C |
| 8 |  |  |  |  | 5.0 | 15 | 242 | -1.7 | -2.7 | 1.9 | 3 | C |
| 9 |  |  |  |  | 4.7 | 23 | 259 | -0.6 | -2.2 | 2.1 | 3 | C |
| 10 |  |  |  |  | 4.9 | -8 | 317 | 3.3 | -3.1 | 0.5 | 1 | C |
| 11 |  |  |  |  | 4.7 | 15 | 336 | 3.9 | -1.2 | 1.7 | 1 | C |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  | 5.1 | -10 | 320 | 3.8 | -3.2 | 0.2 | 1 | C |
| 14 |  |  |  |  | 4.6 | 56 | 111 | -0.3 | 1.2 | 1.0 | 4 | C |
| 15 |  |  |  |  | 5.5 | 26 | 311 | 2.7 | -2.6 | 2.8 | 3 | C |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  | 4.0 | -25 | 7 | 2.0 | 0.3 | -0.9 | 3 | C |
| 22 |  |  |  |  | 4.6 | 69 | 92 | -0.1 | 1.2 | 3.7 | 2 | C |
| 23 |  |  |  |  | 4.6 | 60 | 145 | -1.5 | 0.9 | 3.3 | 2 | C |
| 24 |  |  |  |  | 3.7 | 19 | 49 | 2.1 | 2.3 | 1.2 | 1 | C |

DEC. 3, 1983 337

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  | 4.1 | -5 | 334 | 3.4 | -1.7 | -0.1 | 1 | C |
| 6 |  |  |  |  | 4.3 | -4 | 322 | 3.1 | -2.5 | 0.2 | 1 | C |
| 7 |  |  |  |  | 4.3 | 41 | 283 | 0.6 | -2.1 | 3.2 | 1 | C |
| 8 |  |  |  |  | 4.6 | 50 | 277 | 0.3 | -1.6 | 4.0 | 1 | C |
| 9 |  |  |  |  | 4.8 | 50 | 292 | 1.1 | -1.5 | 4.3 | 1 | C |
| 10 |  |  |  |  | 4.9 | 20 | 294 | 1.8 | -3.2 | 2.8 | 2 | C |
| 11 |  |  |  |  | 4.9 | 1 | 311 | 3.0 | -3.3 | 1.3 | 1 | C |
| 12 |  |  |  |  | 4.7 | -5 | 296 | 1.9 | -3.8 | 1.0 | 1 | C |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  | 4.1 | 26 | 34 | 3.0 | 2.3 | 1.5 | 0 | C |
| 18 |  |  |  |  | 4.1 | 29 | 48 | 2.4 | 2.8 | 1.7 | 0 | C |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  | 3.6 | 10 | 330 | 2.9 | -1.7 | 0.5 | 1 | C |
| 22 |  |  |  |  | 3.7 | 23 | 332 | 2.6 | -1.4 | 1.1 | 2 | C |
| 23 |  |  |  |  | 3.8 | 15 | 5 | 3.6 | 0.3 | 1.0 | 0 | C |
| 24 |  |  |  |  | 3.6 | 11 | 336 | 2.7 | -1.2 | 0.5 | 2 | C |

DEC. 5, 1983 339

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 13.0 | 48 | J | 11.1 | -4 | 129 | -6.2 | 7.6 | -0.2 | 4 | J |
| 2 | 393 | 14.6 | 59 | J | 11.0 | 8 | 123 | -5.0 | 7.7 | 1.6 | 5 | J |
| 3 | 398 | 14.7 | 56 | J | 11.2 | -20 | 131 | -5.5 | 6.4 | -3.1 | 6 | J |
| 4 | 398 | 15.1 | 48 | J | 11.5 | -41 | 160 | -6.5 | 2.0 | -6.1 | 7 | J |
| 5 |  |  |  |  | 10.7 | -2 | 111 | -3.6 | 9.0 | -1.5 | 3 | C |
| 6 | 423 | 12.1 | 69 | J | 11.2 | 0 | 121 | -5.4 | 8.8 | -1.7 | 3 | J |
| 7 | 429 | 13.0 | 88 | J | 11.4 | -3 | 127 | -6.3 | 8.0 | -2.6 | 4 | J |
| 8 | 427 | 14.5 | 93 | J | 11.5 | -14 | 131 | -6.9 | 6.8 | -4.8 | 4 | J |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  | 7.5 | -21 | 155 | -4.6 | 1.4 | -2.5 | 4 | C |
| 12 |  |  |  |  | 9.3 | 39 | 153 | -5.5 | 4.2 | 3.7 | 4 | C |
| 13 |  |  |  |  | 8.6 | 13 | 117 | -2.8 | 5.9 | -0.3 | 5 | C |
| 14 |  |  |  |  | 11.6 | 14 | 121 | -5.7 | 9.9 | 0.2 | 1 | C |
| 15 | 428 | 19.2 | 164 | J | 12.6 | 12 | 118 | -5.6 | 10.8 | 0.1 | 3 | J |
| 16 | 438 | 16.1 | 148 | J | 12.9 | 2 | 119 | -6.1 | 10.8 | -1.5 | 3 | J |
| 17 | 455 | 13.6 | 144 | J | 12.8 | 3 | 130 | -7.3 | 8.7 | -0.5 | 6 | J |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  | 11.1 | -4 | 291 | 1.9 | -5.0 | -0.5 | 10 | C |
| 21 |  |  |  |  | 9.6 | 8 | 174 | -6.9 | 0.7 | 1.0 | 6 | C |
| 22 |  |  |  |  | 12.3 | -12 | 138 | -8.6 | 7.8 | -1.7 | 3 | C |
| 23 |  |  |  |  | 12.9 | 5 | 117 | -5.8 | 10.9 | 2.2 | 2 | C |
| 24 | 465 | 9.8 | 174 | J | 13.7 | -1 | 118 | -6.2 | 11.7 | 0.8 | 3 | J |

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### DEC. 6, 1983

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 477 | 8.1 | 135 | J | 13.6 | -2 | 127 | -7.9 | 10.5 | 0.3 | 3 | J |
| 2 | 483 | 9.8 | 168 | J | 13.4 | -9 | 124 | -7.3 | 10.9 | -1.6 | 2 | J |
| 3 | | | | | 12.9 | 9 | 125 | -7.1 | 10.3 | 2.0 | 2 | C |
| 4 | | | | | 13.5 | 3 | 126 | -7.6 | 10.3 | 0.2 | 3 | C |
| 5 | | | | | 14.3 | -3 | 125 | -7.9 | 11.2 | -2.0 | 3 | C |
| 6 | | | | | 13.7 | -37 | 144 | -7.2 | 4.0 | -7.5 | 7 | C |
| 7 | | | | | | | | | | | | |
| 8 | | | | | 13.9 | -25 | 148 | -10.6 | 4.8 | -7.4 | 1 | C |
| 9 | 621 | 6.4 | 332 | J | 10.3 | -6 | 150 | -6.5 | 3.4 | -1.9 | 7 | J |
| 10 | 620 | 6.7 | 241 | J | 10.5 | -9 | 147 | -7.5 | 4.2 | -2.9 | 5 | J |
| 11 | 625 | 7.2 | 293 | J | 9.8 | 8 | 148 | -6.6 | 4.2 | -0.3 | 6 | J |
| 12 | 621 | 6.7 | 245 | J | 9.5 | 1 | 150 | -6.7 | 3.7 | -1.1 | 6 | J |
| 13 | 615 | 6.3 | 197 | J | 8.7 | 4 | 172 | -7.3 | 1.1 | 0.2 | 4 | J |
| 14 | 625 | 6.2 | 203 | J | 9.2 | -31 | 164 | -6.7 | 0.8 | -4.5 | 4 | J |
| 15 | 623 | 5.6 | 159 | J | 9.9 | -25 | 153 | -7.3 | 2.8 | -4.6 | 4 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 9.4 | 0 | 127 | -3.9 | 5.2 | 0.2 | 6 | C |
| 21 | | | | | 8.6 | -19 | 108 | -2.2 | 7.0 | -2.0 | 3 | C |
| 22 | | | | | 7.8 | 14 | 163 | -5.1 | 1.5 | 1.4 | 5 | C |
| 23 | | | | | 7.8 | 28 | 154 | -5.3 | 2.3 | 3.4 | 3 | C |
| 24 | 646 | 4.6 | 274 | J | 6.8 | -34 | 139 | -1.7 | 5.3 | -3.1 | 3 | J |

### DEC. 7, 1983

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 618 | 5.7 | 203 | J | 6.4 | -20 | 172 | -4.8 | 0.8 | -1.7 | 4 | J |
| 2 | 618 | 5.2 | 227 | J | 6.5 | 4 | 130 | -3.1 | 3.6 | 0.5 | 4 | J |
| 3 | 609 | 4.5 | 166 | J | 6.9 | -21 | 120 | -2.8 | 4.8 | -2.1 | 3 | J |
| 4 | 650 | 4.2 | 141 | J | 7.1 | -21 | 75 | 1.6 | 5.7 | -2.6 | 3 | J |
| 5 | | | | | 6.9 | 46 | 128 | -2.2 | 3.2 | 3.3 | 4 | C |
| 6 | | | | | 6.8 | 77 | 134 | -1.0 | 2.1 | 5.8 | 2 | C |
| 7 | | | | | 6.9 | 42 | 130 | -2.9 | 4.2 | 3.2 | 3 | C |
| 8 | | | | | 6.7 | -21 | 149 | -4.5 | 2.1 | -2.6 | 3 | C |
| 9 | 602 | 5.0 | 164 | J | 6.4 | -35 | 163 | -3.7 | 0.3 | -2.9 | 4 | J |
| 10 | 6[illegible]2 | 4.9 | 152 | J | 6.3 | -44 | 149 | -3.5 | 0.7 | -4.3 | 3 | J |
| 11 | | | | | 6.4 | -36 | 133 | -3.3 | 2.2 | -4.5 | 2 | C |
| 12 | | | | | 6.5 | -33 | 131 | -2.8 | 2.3 | -3.6 | 3 | C |
| 13 | | | | | 6.5 | -13 | 169 | -5.0 | 0.6 | -1.4 | 3 | C |
| 14 | | | | | 6.6 | -63 | 102 | -0.6 | 1.3 | -5.8 | 2 | C |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 4.5 | -17 | 190 | -3.7 | -0.6 | -1.2 | 2 | C |
| 22 | | | | | 4.8 | 12 | 185 | -4.4 | -0.5 | 0.9 | 1 | C |
| 23 | | | | | 4.8 | -5 | 141 | -3.4 | 2.8 | -0.1 | 2 | C |
| 24 | 536 | 4.6 | 65 | J | 4.6 | -13 | 141 | -3.4 | 2.9 | -0.7 | 1 | J |

### DEC. 8, 1983

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 578 | 4.8 | 100 | J | 4.7 | -29 | 136 | -2.8 | 2.9 | -1.9 | 1 | J |
| 2 | 569 | 5.1 | 63 | J | 5.0 | -5 | 135 | -3.4 | 3.4 | -0.2 | 1 | J |
| 3 | 562 | 5.1 | 75 | J | 5.1 | 0 | 115 | -2.0 | 4.4 | 0.0 | 2 | J |
| 4 | 560 | 7.0 | 79 | J | 6.1 | -5 | 92 | -0.2 | 5.5 | -0.7 | 2 | J |
| 5 | | | | | 5.5 | 8 | 65 | 2.2 | 4.7 | 0.3 | 1 | C |
| 6 | | | | | 5.5 | -1 | 67 | 1.8 | 4.0 | -0.7 | 3 | C |
| 7 | | | | | 4.7 | 13 | 72 | 1.2 | 3.8 | 0.1 | 1 | C |
| 8 | | | | | 4.7 | 13 | 70 | 1.3 | 3.9 | -0.1 | 2 | C |
| 9 | 525 | 5.0 | 73 | J | 4.6 | 31 | 55 | 2.0 | 3.4 | 1.2 | 2 | J |
| 10 | 526 | 4.9 | 70 | J | 4.6 | 40 | 37 | 2.7 | 2.8 | 2.1 | 1 | J |
| 11 | 519 | 5.3 | 50 | J | 5.0 | -4 | 156 | -4.6 | 1.8 | -1.0 | 1 | J |
| 12 | 521 | 5.2 | 98 | J | 4.7 | -29 | 166 | -3.9 | 0.3 | -2.4 | 1 | J |
| 13 | 502 | 6.5 | 67 | J | 4.8 | -5 | 147 | -3.5 | 2.1 | -1.0 | 2 | J |
| 14 | 499 | 8.3 | 73 | J | 4.3 | 0 | 106 | -1.0 | 3.3 | -0.8 | 3 | J |
| 15 | | | | | 4.2 | -51 | 127 | -1.6 | 1.4 | -3.6 | 1 | J |
| 16 | 488 | 9.4 | 85 | J | 5.3 | 31 | 160 | -3.1 | 1.4 | 1.8 | 3 | J |
| 17 | 503 | 8.3 | 58 | J | 5.2 | 54 | 149 | -1.6 | 1.2 | 2.4 | 4 | J |
| 18 | 504 | 8.4 | 59 | J | 5.0 | 46 | 144 | -2.8 | 2.2 | 3.4 | 1 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 5.9 | -22 | 128 | -3.1 | 4.1 | -1.8 | 2 | C |
| 21 | | | | | 6.3 | -12 | 72 | 1.5 | 4.8 | -0.7 | 3 | C |
| 22 | 518 | 7.1 | 57 | J | 6.6 | 27 | 37 | 4.5 | 3.1 | 3.2 | 2 | J |
| 23 | 506 | 9.6 | 40 | J | 6.3 | 48 | 7 | 4.1 | -0.0 | 4.6 | 1 | J |
| 24 | 495 | 10.9 | 26 | J | 5.8 | 56 | 329 | 2.6 | -2.1 | 4.3 | 2 | J |

### DEC. 9, 1983

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 493 | 15.5 | 23 | J | 6.0 | 48 | 281 | 0.8 | -4.3 | 4.0 | 1 | J |
| 2 | 493 | 11.9 | 24 | J | 6.4 | 53 | 286 | 1.0 | -3.7 | 4.4 | 3 | J |
| 3 | 483 | 8.7 | 9 | L | 6.4 | 56 | 311 | 2.3 | -2.8 | 5.2 | 1 | J |
| 4 | 472 | 14.3 | 31 | J | 5.7 | 57 | 269 | -0.1 | -2.8 | 4.6 | 2 | J |
| 5 | 480 | 15.3 | 28 | J | 5.9 | 53 | 342 | 3.1 | -0.6 | 4.5 | 2 | J |
| 6 | 471 | 16.6 | 35 | J | 6.1 | 42 | 335 | 4.0 | -1.2 | 4.3 | 1 | J |
| 7 | 462 | 14.3 | 38 | J | 6.4 | 42 | 333 | 4.2 | -1.2 | 4.6 | 1 | J |
| 8 | 459 | 13.5 | 34 | J | 6.9 | 34 | 349 | 5.6 | -0.1 | 4.0 | 1 | J |
| 9 | 454 | 12.4 | 26 | J | 6.9 | 36 | 358 | 5.6 | 1.0 | 3.9 | 1 | J |
| 10 | 450 | 9.8 | 23 | J | 7.1 | 34 | 360 | 5.8 | 1.2 | 3.7 | 0 | J |
| 11 | 445 | 8.2 | 20 | J | 7.0 | 41 | 359 | 5.2 | 1.3 | 4.3 | 1 | J |
| 12 | 443 | 7.3 | 21 | J | 7.0 | 27 | 359 | 6.1 | 0.8 | 3.0 | 1 | J |
| 13 | 448 | 6.3 | 32 | J | 7.0 | 24 | 359 | 6.4 | 0.7 | 2.8 | 1 | J |
| 14 | 430 | 5.9 | 28 | J | 7.5 | 29 | 2 | 6.6 | 1.1 | 3.5 | 1 | J |
| 15 | 427 | 5.6 | 34 | J | 8.1 | 27 | 2 | 7.2 | 1.0 | 3.6 | 0 | J |
| 16 | 429 | 6.9 | 27 | J | 8.3 | 27 | 6 | 7.4 | 1.3 | 3.6 | 0 | J |
| 17 | 424 | 6.8 | 37 | J | 8.6 | 24 | 2 | 7.8 | 0.6 | 3.4 | 1 | J |
| 18 | 412 | 6.6 | 28 | J | 8.4 | 21 | 2 | 7.8 | 0.4 | 3.0 | 0 | J |
| 19 | 415 | 8.9 | 31 | J | 7.3 | 21 | 4 | 6.7 | 0.4 | 2.6 | 1 | J |
| 20 | 397 | 13.1 | 41 | J | 4.9 | 20 | 20 | 3.8 | 1.5 | 1.5 | 3 | J |
| 21 | 409 | 11.3 | 31 | J | 6.2 | 31 | 20 | 4.9 | 1.5 | 3.3 | 1 | J |
| 22 | 405 | 8.7 | 20 | J | 7.1 | 21 | 14 | 6.3 | 1.3 | 2.7 | 1 | J |
| 23 | 403 | 7.6 | 17 | J | 7.2 | 18 | 8 | 6.6 | 0.7 | 2.3 | 1 | J |
| 24 | 389 | 6.2 | 14 | L | 7.2 | 20 | 13 | 6.6 | 1.2 | 2.6 | 0 | J |

### DEC. 10, 1983

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 380 | 8.2 | 26 | J | 5.9 | 21 | 7 | 5.4 | 0.4 | 2.1 | 1 | J |
| 2 | 363 | 9.7 | 38 | J | 5.0 | 18 | 31 | 4.1 | 2.3 | 1.7 | 1 | J |
| 3 | | | | | 5.8 | 34 | 19 | 4.4 | 1.5 | 3.2 | 1 | C |
| 4 | | | | | 10.2 | 48 | 57 | 3.6 | 5.7 | 7.1 | 2 | C |
| 5 | | | | | 12.2 | 35 | 87 | 0.5 | 9.1 | 5.2 | 5 | C |
| 6 | | | | | 12.2 | 59 | 69 | 2.0 | 6.5 | 8.5 | 4 | C |
| 7 | | | | | 10.3 | 25 | 106 | -2.0 | 7.8 | 2.0 | 5 | C |
| 8 | | | | | 11.9 | -24 | 128 | -6.1 | 6.3 | -6.2 | 5 | C |
| 9 | | | | | | | | | | | | |
| 10 | 471 | 17.9 | 102 | J | 14.4 | 35 | 89 | 0.2 | 13.0 | 4.2 | 4 | J |
| 11 | 454 | 30.2 | 93 | J | 11.5 | 3 | 103 | -2.5 | 10.6 | -2.7 | 2 | J |
| 12 | 449 | 26.7 | 113 | J | 11.2 | -12 | 110 | -3.6 | 8.9 | -5.1 | 2 | J |
| 13 | 446 | 17.8 | 105 | J | 12.7 | -22 | 108 | -3.4 | 8.9 | -7.1 | 4 | J |
| 14 | 438 | 16.5 | 88 | J | 12.9 | -17 | 113 | -4.8 | 10.1 | -6.2 | 1 | J |
| 15 | 431 | 17.5 | 96 | J | 12.9 | -10 | 118 | -5.9 | 10.4 | -4.3 | 2 | J |
| 16 | 436 | 17.4 | 71 | J | 13.3 | -24 | 116 | -5.0 | 9.5 | -6.5 | 5 | J |
| 17 | | | | | | | | | | | | |
| 18 | 418 | 15.9 | 55 | J | 12.2 | -9 | 136 | -8.0 | 7.6 | -2.0 | 5 | J |
| 19 | 402 | 16.0 | 52 | J | 11.6 | -4 | 147 | -9.5 | 6.2 | -0.7 | 2 | J |
| 20 | 409 | 17.2 | 59 | J | 10.0 | -10 | 156 | -7.6 | 3.4 | -1.3 | 5 | J |
| 21 | 420 | 21.8 | 94 | J | 7.1 | 13 | 120 | -3.1 | 5.2 | 1.9 | 3 | J |
| 22 | 423 | 21.1 | 92 | J | 6.9 | 17 | 127 | -3.7 | 4.7 | 2.5 | 2 | J |
| 23 | 423 | 20.2 | 74 | J | 7.5 | 39 | 143 | -3.5 | 2.2 | 3.9 | 5 | J |
| 24 | 401 | 18.4 | 54 | J | 9.3 | 12 | 155 | -7.9 | 3.4 | 2.3 | 2 | J |

### DEC. 11, 1983

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 409 | 18.4 | 44 | J | 9.0 | -8 | 185 | -8.4 | -0.6 | -1.3 | 2 | J |
| 2 | 412 | 15.8 | 38 | J | 9.9 | -16 | 170 | -9.1 | 1.8 | -2.5 | 2 | J |
| 3 | 413 | 15.9 | 49 | J | 9.2 | -10 | 155 | -7.7 | 3.6 | -1.4 | 3 | J |
| 4 | 415 | 16.3 | 40 | J | 8.5 | 1 | 124 | -4.7 | 7.0 | 0.0 | 2 | J |
| 5 | 412 | 16.9 | 52 | J | 8.1 | -4 | 139 | -6.0 | 5.2 | -1.0 | 1 | J |
| 6 | 416 | 18.9 | 77 | J | 6.4 | 0 | 179 | -4.9 | 0.1 | -0.0 | 4 | J |
| 7 | 426 | 27.9 | 128 | J | 8.5 | -5 | 174 | -6.2 | 0.5 | -0.7 | 6 | J |
| 8 | 445 | 28.9 | 114 | J | 9.6 | 49 | 103 | -1.2 | 6.4 | 4.6 | 5 | J |
| 9 | 446 | 31.8 | 128 | J | 9.0 | 24 | 131 | -2.6 | 3.3 | 0.9 | 8 | J |
| 10 | 486 | 34.4 | 165 | J | 11.9 | 19 | 65 | 3.2 | 7.3 | 0.5 | 9 | J |
| 11 | 479 | 42.3 | 109 | J | 17.2 | 59 | 285 | 1.3 | -2.2 | 9.6 | 14 | J |
| 12 | 473 | 43.6 | 108 | J | 13.6 | -65 | 178 | -1.8 | -1.0 | -3.7 | 13 | J |
| 13 | 475 | 33.2 | 120 | J | 12.8 | 71 | 32 | 2.0 | 2.9 | 6.2 | 11 | J |
| 14 | 468 | 22.6 | 145 | J | 13.0 | -44 | 93 | -0.4 | 6.1 | -9.5 | 7 | J |
| 15 | 463 | 21.6 | 65 | J | 13.6 | -50 | 132 | -2.6 | 2.0 | -5.0 | 12 | J |
| 16 | 470 | 22.6 | 60 | J | 10.3 | 17 | 270 | -0.0 | -9.0 | 4.1 | 4 | J |
| 17 | 485 | 19.4 | 77 | J | 7.1 | -1 | 215 | -4.5 | -3.2 | 0.2 | 4 | J |
| 18 | 487 | 20.7 | 62 | J | 5.6 | -3 | 212 | -2.9 | -1.8 | -0.1 | 5 | J |
| 19 | 502 | 19.5 | 69 | J | 4.7 | 38 | 231 | -1.7 | -2.1 | 2.0 | 4 | J |
| 20 | 508 | 9.7 | 72 | J | 8.5 | -27 | 247 | -2.8 | -6.2 | -4.0 | 3 | J |
| 21 | 501 | 9.1 | 93 | J | 8.1 | -42 | 247 | -2.0 | -4.2 | -5.1 | 4 | J |
| 22 | 488 | 7.2 | 103 | J | 8.0 | -88 | 206 | -0.2 | 0.8 | -7.4 | 3 | J |
| 23 | 519 | 13.8 | 91 | J | 9.1 | 3 | 205 | -7.8 | -3.7 | -0.1 | 3 | J |
| 24 | | | | | 9.3 | 15 | 206 | -7.6 | -4.0 | 1.7 | 3 | J |

### DEC. 12, 1983

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 493 | 9.0 | 141 | J | 9.4 | -33 | 275 | 0.6 | -6.3 | -5.3 | 5 | J |
| 2 | 477 | 9.0 | 252 | J | 7.4 | -9 | 321 | 4.4 | -3.4 | -1.2 | 5 | J |
| 3 | 465 | 9.6 | 219 | J | 9.0 | -2 | 325 | 5.6 | -3.9 | -0.4 | 6 | J |
| 4 | 466 | 9.4 | 206 | J | 9.8 | -19 | 310 | 5.2 | -6.3 | -2.7 | 4 | J |
| 5 | 464 | 12.0 | 164 | J | 11.3 | -23 | 306 | 5.9 | -8.4 | -3.7 | 3 | J |
| 6 | 448 | 14.3 | 116 | J | 13.0 | 24 | 330 | 9.0 | -4.5 | 5.3 | 6 | J |
| 7 | 458 | 15.8 | 77 | J | 13.9 | 42 | 315 | 6.7 | -5.0 | 9.7 | 5 | J |
| 8 | 495 | 11.1 | 219 | J | 7.5 | 52 | 78 | 0.4 | 2.5 | 2.0 | 7 | J |
| 9 | 523 | 10.8 | 284 | J | 8.1 | -7 | 28 | 1.7 | 0.8 | -0.5 | 8 | J |
| 10 | 532 | 11.4 | 343 | J | 11.1 | -17 | 330 | 8.1 | -5.3 | -1.4 | 5 | J |
| 11 | 527 | 12.8 | 379 | J | 11.5 | 10 | 320 | 7.5 | -5.6 | 3.5 | 5 | J |
| 12 | | | | | 14.0 | -4 | 309 | 7.9 | -9.4 | 1.9 | 5 | C |
| 13 | 558 | 10.4 | 376 | J | 14.0 | 32 | 282 | 2.2 | -8.4 | 9.0 | 6 | J |
| 14 | | | | | 12.4 | -34 | 330 | 7.3 | -5.4 | -4.7 | 6 | C |
| 15 | 606 | 9.0 | 278 | J | 11.5 | 9 | 330 | 8.7 | -4.7 | 2.5 | 5 | J |
| 16 | | | | | 12.1 | 2 | 301 | 5.3 | -8.9 | 1.5 | 4 | C |
| 17 | | | | | 12.1 | 2 | 298 | 5.0 | -9.3 | 1.1 | 4 | C |
| 18 | 680 | 6.9 | 285 | J | 7.2 | -1 | 61 | 2.9 | 5.2 | -0.2 | 4 | J |
| 19 | 699 | 6.8 | 267 | J | 6.1 | 70 | 342 | 1.0 | -0.4 | 2.9 | 5 | J |
| 20 | 693 | 6.2 | 256 | J | 6.3 | 5 | 292 | 1.7 | -4.3 | 0.1 | 4 | J |
| 21 | 683 | 5.9 | 244 | J | 7.0 | 17 | 306 | 3.1 | -4.5 | 1.2 | 4 | J |
| 22 | 669 | 6.8 | 261 | J | 7.2 | -16 | 305 | 3.3 | -4.5 | -2.3 | 4 | J |
| 23 | 656 | 6.4 | 231 | J | 7.5 | -20 | 313 | 4.2 | -4.2 | -2.9 | 4 | J |
| 24 | 651 | 6.3 | 300 | J | 7.3 | -2 | 347 | 5.8 | -1.3 | -0.4 | 4 | J |

### DEC. 13, 1983

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| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 641 | 6.5 | 297 | J | 7.6 | -5 | 329 | 5.9 | -3.4 | -1.1 | 3 | J |
| 2 | 655 | 6.5 | 306 | J | 6.7 | 13 | 324 | 3.8 | -2.8 | 0.8 | 5 | J |
| 3 | 650 | 6.7 | 225 | J | 6.6 | -3 | 321 | 3.8 | -3.1 | -0.4 | 4 | J |
| 4 | 629 | 6.6 | 116 | J | 7.7 | -11 | 337 | 6.5 | -2.8 | -1.4 | 2 | J |
| 5 | | | | | 8.7 | -11 | 344 | 8.1 | -2.4 | -1.4 | 1 | C |
| 6 | | | | | 7.2 | -9 | 331 | 5.1 | -2.9 | -0.6 | 3 | C |
| 7 | | | | | 7.1 | 17 | 334 | 5.2 | -2.2 | 2.2 | 3 | C |
| 8 | | | | | 8.0 | 0 | 323 | 6.0 | -4.4 | 1.1 | 2 | C |
| 9 | | | | | 8.0 | -7 | 323 | 5.7 | -4.4 | 0.2 | 3 | C |
| 10 | | | | | 8.2 | -11 | 320 | 4.6 | -4.1 | -0.1 | 5 | C |
| 11 | | | | | 7.5 | 8 | 313 | 3.2 | -3.1 | 1.6 | 5 | C |
| 12 | | | | | 7.4 | 4 | 308 | 3.9 | -4.7 | 1.8 | 3 | C |
| 13 | | | | | 6.1 | 13 | 353 | 4.7 | -0.3 | 1.2 | 3 | C |
| 14 | | | | | 6.4 | -3 | 2 | 6.0 | 0.1 | -0.3 | 2 | C |
| 15 | | | | | 6.0 | -14 | 332 | 3.4 | -1.9 | -0.7 | 4 | C |
| 16 | | | | | 6.0 | 58 | 284 | 0.4 | -1.3 | 2.9 | 5 | C |
| 17 | | | | | 6.3 | 56 | 242 | -0.7 | -1.2 | 2.3 | 5 | C |
| 18 | | | | | 6.4 | 19 | 295 | 1.4 | -3.0 | 1.2 | 5 | C |
| 19 | | | | | 6.2 | 5 | 324 | 3.9 | -2.8 | 0.3 | 4 | C |
| 20 | | | | | 5.9 | -9 | 334 | 4.6 | -2.1 | -1.0 | 2 | C |
| 21 | | | | | 5.8 | 16 | 318 | 2.8 | -2.6 | 0.8 | 4 | C |
| 22 | | | | | 5.9 | -25 | 339 | 4.6 | -1.4 | -2.5 | 2 | C |
| 23 | | | | | 5.5 | -25 | 323 | 3.0 | -2.0 | -2.1 | 3 | C |
| 24 | | | | | 5.7 | -22 | 344 | 5.0 | -1.1 | -2.3 | 1 | C |

# 12/14/83 – 12/23/83

DEC. 14, 1983 348

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.9 | -10 | 324 | 4.3 | -3.0 | -1.4 | 2 | C |
| 2 | | | | | 6.5 | -13 | 311 | 3.9 | -4.3 | -1.8 | 2 | C |
| 3 | | | | | 6.4 | 31 | 278 | 0.7 | -4.6 | 2.4 | 3 | C |
| 4 | | | | | 6.7 | -10 | 293 | 2.2 | -5.1 | -1.0 | 3 | C |
| 5 | | | | | 6.1 | 3 | 329 | 4.5 | -2.7 | 0.5 | 2 | C |
| 6 | | | | | 6.4 | -34 | 298 | 1.9 | -3.9 | -2.3 | 3 | C |
| 7 | | | | | 6.1 | -13 | 333 | 4.4 | -2.4 | -0.7 | 3 | C |
| 8 | | | | | 6.5 | -17 | 355 | 5.8 | -0.8 | -1.6 | 2 | C |
| 9 | | | | | 6.6 | 1 | 314 | 3.6 | -3.5 | 1.0 | 4 | C |
| 10 | | | | | 8.1 | 41 | 297 | 2.6 | -3.5 | 6.0 | 3 | C |
| 11 | | | | | 7.5 | -23 | 322 | 4.5 | -4.1 | -1.4 | 4 | C |
| 12 | | | | | 6.9 | 35 | 335 | 4.3 | -1.0 | 3.8 | 3 | C |
| 13 | | | | | 6.5 | 6 | 339 | 4.5 | -1.6 | 0.9 | 3 | C |
| 14 | | | | | 6.6 | -10 | 333 | 5.1 | -2.7 | -0.5 | 2 | C |
| 15 | | | | | 6.7 | -2 | 333 | 4.9 | -2.4 | 0.2 | 3 | C |
| 16 | | | | | 5.9 | -6 | 344 | 3.5 | -1.1 | -0.2 | 4 | C |
| 17 | | | | | 5.9 | -19 | 343 | 4.5 | -1.4 | -1.5 | 3 | C |
| 18 | | | | | 5.7 | -22 | 336 | 3.5 | -1.6 | -1.5 | 3 | C |
| 19 | | | | | 5.7 | -15 | 327 | 2.6 | -1.6 | -0.9 | 4 | C |
| 20 | | | | | 6.0 | -32 | 349 | 3.9 | -0.5 | -2.6 | 3 | C |
| 21 | | | | | 5.9 | -34 | 19 | 4.2 | 1.8 | -2.9 | 2 | C |
| 22 | | | | | 5.9 | -26 | 12 | 4.7 | 1.4 | -2.2 | 2 | C |
| 23 | | | | | 5.9 | -9 | 346 | 4.8 | -1.0 | -0.9 | 2 | C |
| 24 | | | | | 6.6 | -7 | 312 | 3.1 | -3.3 | -1.1 | 0 | C |

DEC. 15, 1983 349

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.7 | 2 | 301 | 2.4 | -3.9 | -0.4 | 2 | C |
| 2 | | | | | 5.8 | -17 | 331 | 4.1 | -2.1 | -1.7 | 3 | C |
| 3 | | | | | 5.9 | 0 | 308 | 2.8 | -3.6 | -0.2 | 3 | C |
| 4 | | | | | 5.7 | 18 | 325 | 3.6 | -2.5 | 1.4 | 3 | C |
| 5 | | | | | 5.6 | 8 | 297 | 2.2 | -4.2 | 0.9 | 2 | C |
| 6 | | | | | 5.7 | 2 | 318 | 3.8 | -3.5 | 0.5 | 2 | C |
| 7 | | | | | 5.9 | -26 | 329 | 2.7 | -1.9 | -1.3 | 4 | C |
| 8 | | | | | 6.2 | -23 | 46 | 3.6 | 3.2 | -2.9 | 2 | C |
| 9 | | | | | 6.1 | 2 | 49 | 3.5 | 4.0 | -0.8 | 2 | C |
| 10 | | | | | 6.2 | 16 | 27 | 4.7 | 2.7 | 0.8 | 3 | C |
| 11 | | | | | 5.7 | 43 | 22 | 3.3 | 2.2 | 2.9 | 2 | C |
| 12 | | | | | 5.1 | 15 | 338 | 3.2 | -1.1 | 1.2 | 3 | C |
| 13 | | | | | 4.9 | 22 | 33 | 3.1 | 2.3 | 1.0 | 2 | C |
| 14 | | | | | 5.5 | 9 | 351 | 4.2 | -0.5 | 0.8 | 3 | C |
| 15 | | | | | 5.2 | 11 | 27 | 4.0 | 2.1 | 0.6 | 2 | C |
| 16 | | | | | 5.3 | 3 | 348 | 4.7 | -0.9 | 0.4 | 2 | C |
| 17 | | | | | 6.1 | -8 | 349 | 5.9 | -1.2 | -0.7 | 1 | C |
| 18 | | | | | 5.9 | 7 | 318 | 4.0 | -3.6 | 0.7 | 2 | C |
| 19 | | | | | 5.7 | 11 | 327 | 3.7 | -2.5 | 0.8 | 3 | C |
| 20 | | | | | 5.6 | 7 | 6 | 5.0 | 0.5 | 0.7 | 2 | C |
| 21 | | | | | 5.9 | -24 | 349 | 4.9 | -0.7 | -2.3 | 2 | C |
| 22 | | | | | 5.3 | -25 | 323 | 3.3 | -2.1 | -2.2 | 2 | C |
| 23 | | | | | 4.9 | -22 | 302 | 2.1 | -3.0 | -2.1 | 2 | C |
| 24 | | | | | 5.2 | -46 | 301 | 1.7 | -2.3 | -4.0 | 1 | C |

DEC. 18, 1983 352

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 377 | 9.0 | 24 | J | 8.6 | 29 | 318 | 5.5 | -4.3 | 4.7 | 2 | J |
| 8 | 374 | 9.6 | 22 | J | 8.5 | 25 | 317 | 5.6 | -4.4 | 4.5 | 1 | J |
| 9 | 377 | 9.6 | 26 | J | 8.7 | 16 | 310 | 5.3 | -5.6 | 3.7 | 1 | J |
| 10 | 385 | 9.1 | 27 | J | 8.7 | 28 | 302 | 4.0 | -5.3 | 5.5 | 1 | J |
| 11 | 374 | 11.6 | 25 | J | 8.6 | 21 | 314 | 5.4 | -4.7 | 4.2 | 2 | J |
| 12 | 376 | 10.6 | 26 | J | 9.2 | 10 | 310 | 5.6 | -6.1 | 3.0 | 2 | J |
| 13 | 381 | 11.3 | 29 | J | 9.2 | 20 | 306 | 5.0 | -6.1 | 4.4 | 2 | J |
| 14 | 388 | 12.7 | 35 | J | 9.7 | 24 | 298 | 4.1 | -6.9 | 5.1 | 2 | J |
| 15 | 384 | 13.0 | 53 | J | 10.0 | -28 | 310 | 4.4 | -5.6 | -2.9 | 6 | J |
| 16 | 399 | 8.3 | 93 | J | 10.4 | -48 | 325 | 5.2 | -4.2 | -6.7 | 4 | J |
| 17 | 411 | 8.5 | 117 | J | 10.7 | -35 | 307 | 5.2 | -7.0 | -5.8 | 2 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 401 | 11.3 | 119 | J | 11.9 | 6 | 282 | 2.5 | -11.6 | -0.5 | 1 | J |
| 22 | 399 | 9.9 | 104 | J | 12.7 | 37 | 290 | 3.3 | -10.3 | 5.6 | 3 | J |
| 23 | 393 | 13.7 | 69 | J | 11.5 | 29 | 285 | 1.7 | -6.8 | 2.3 | 9 | J |
| 24 | 390 | 15.8 | 50 | J | 12.4 | -9 | 292 | 4.5 | -10.6 | -4.0 | 2 | J |

DEC. 19, 1983 353

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 391 | 26.1 | 40 | J | 11.8 | 79 | 26 | 1.9 | -1.0 | 10.8 | 4 | J |
| 2 | 391 | 33.2 | 40 | J | 12.0 | 72 | 292 | 1.3 | -4.9 | 10.3 | 3 | J |
| 3 | 392 | 21.8 | 39 | J | 14.6 | 17 | 279 | 2.0 | -12.9 | 2.6 | 6 | J |
| 4 | 403 | 12.1 | 138 | J | 13.9 | -10 | 273 | 0.7 | -12.4 | -2.8 | 5 | J |
| 5 | 395 | 11.2 | 161 | J | 13.8 | 2 | 279 | 2.1 | -13.2 | 0.7 | 3 | J |
| 6 | 395 | 11.9 | 159 | J | 14.0 | -3 | 280 | 2.4 | -13.4 | 0.3 | 3 | J |
| 7 | 394 | 11.5 | 106 | J | 15.1 | 2 | 280 | 2.6 | -14.3 | 2.4 | 4 | J |
| 8 | 406 | 15.2 | 107 | J | 14.7 | -6 | 275 | 1.1 | -13.1 | 1.0 | 7 | J |
| 9 | 404 | 18.4 | 109 | J | 12.2 | 25 | 278 | 1.3 | -8.3 | 6.4 | 6 | J |
| 10 | 411 | 16.4 | 86 | J | 13.2 | -6 | 265 | -1.0 | -11.8 | 1.5 | 6 | J |
| 11 | 413 | 12.1 | 110 | J | 13.0 | -13 | 259 | -2.3 | -12.2 | 0.1 | 3 | J |
| 12 | 430 | 3.5 | 162 | J | | | | | | | | |
| 13 | 400 | 4.5 | 270 | L | 10.0 | 1 | 258 | -1.9 | -8.8 | 2.0 | 4 | J |
| 14 | 399 | 4.8 | 446 | J | 9.1 | -1 | 249 | -2.7 | -6.9 | 1.0 | 5 | J |
| 15 | 408 | 4.8 | 147 | J | 9.1 | -12 | 256 | -1.8 | -7.4 | -0.7 | 5 | J |
| 16 | 406 | 6.3 | 141 | J | 8.7 | -16 | 253 | -1.9 | -6.4 | -1.4 | 5 | J |
| 17 | 413 | 6.7 | 135 | J | 9.2 | 17 | 270 | -0.0 | -8.2 | 2.7 | 3 | J |
| 18 | 414 | 10.7 | 129 | J | 6.1 | -41 | 322 | 3.3 | -2.4 | -3.7 | 3 | J |
| 19 | 422 | 9.8 | 146 | J | 6.8 | 25 | 278 | 0.5 | -4.0 | 1.5 | 5 | J |
| 20 | 425 | 9.5 | 137 | J | 8.8 | 9 | 277 | 1.0 | -8.2 | 0.3 | 3 | J |
| 21 | 419 | 7.6 | 93 | J | 9.9 | 15 | 270 | -0.0 | -9.8 | 1.0 | 2 | J |
| 22 | 418 | 6.5 | 72 | J | 9.9 | 0 | 248 | -3.6 | -8.8 | -1.7 | 2 | J |
| 23 | 417 | 5.3 | 46 | J | 9.5 | -7 | 251 | -3.0 | -8.4 | -2.9 | 1 | J |
| 24 | 422 | 5.5 | 46 | J | 9.2 | -5 | 252 | -2.7 | -8.1 | -2.4 | 2 | J |

DEC. 20, 1983 354

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 5.3 | 41 | J | 8.8 | -6 | 257 | -1.9 | -8.1 | -2.4 | 1 | J |
| 2 | 432 | 5.8 | 69 | J | 7.6 | 6 | 267 | -0.3 | -6.7 | -0.3 | 4 | J |
| 3 | 435 | 6.9 | 67 | J | 7.5 | -3 | 252 | -2.1 | -6.3 | -1.0 | 3 | J |
| 4 | 417 | 5.2 | 54 | J | 7.3 | 11 | 306 | 3.9 | -5.5 | 1.0 | 3 | J |
| 5 | 462 | 2.6 | 128 | J | 7.3 | 16 | 333 | 6.2 | -3.1 | 2.0 | 2 | J |
| 6 | 479 | 2.4 | 90 | J | 7.4 | 16 | 341 | 6.6 | -2.1 | 2.2 | 1 | J |
| 7 | 482 | 2.9 | 180 | J | 6.4 | 15 | 336 | 5.5 | -2.2 | 1.9 | 1 | J |
| 8 | 480 | 3.1 | 166 | J | 5.6 | 15 | 330 | 4.6 | -2.4 | 1.9 | 1 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 460 | 4.0 | 122 | L | 5.1 | 18 | 326 | 3.8 | -2.2 | 1.9 | 2 | J |
| 14 | 467 | 3.2 | 91 | J | 5.3 | 31 | 333 | 4.0 | -1.6 | 3.0 | 1 | J |
| 15 | 463 | 3.6 | 72 | J | 4.5 | 15 | 333 | 3.4 | -1.6 | 1.2 | 2 | J |
| 16 | 449 | 3.8 | 116 | L | 4.8 | 13 | 332 | 4.0 | -2.1 | 1.2 | 1 | J |
| 17 | 455 | 3.1 | 111 | J | 4.8 | 19 | 327 | 3.7 | -2.4 | 1.6 | 1 | J |
| 18 | 455 | 3.5 | 143 | J | 4.6 | 22 | 330 | 3.6 | -2.1 | 1.6 | 1 | J |
| 19 | 426 | 5.0 | 59 | J | 4.1 | 24 | 244 | -1.6 | -3.4 | 1.3 | 1 | J |
| 20 | 433 | 4.9 | 573 | J | 5.1 | -24 | 332 | 4.0 | -1.9 | -2.3 | 0 | J |
| 21 | 444 | 3.6 | 182 | J | 4.9 | -4 | 317 | 3.2 | -2.9 | -0.8 | 2 | J |
| 22 | 417 | 4.5 | 49 | J | 3.9 | 14 | 288 | 0.9 | -3.0 | 0.2 | 2 | J |
| 23 | 419 | 4.7 | 59 | J | 4.0 | 34 | 323 | 2.4 | -2.2 | 1.6 | 2 | J |
| 24 | 415 | 4.3 | 61 | J | 5.0 | 13 | 321 | 3.6 | -3.1 | 0.4 | 1 | J |

DEC. 21, 1983 355

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 410 | 4.8 | 84 | J | 5.5 | -2 | 333 | 4.7 | -2.3 | -0.6 | 1 | J |
| 2 | 406 | 4.7 | 124 | J | 5.5 | -23 | 351 | 4.6 | -0.4 | -2.1 | 2 | J |
| 3 | 415 | 4.1 | 67 | J | 5.0 | -14 | 342 | 4.3 | -1.3 | -1.3 | 2 | J |
| 4 | 413 | 3.9 | 58 | J | 5.5 | -14 | 2 | 5.2 | 0.3 | -1.3 | 1 | J |
| 5 | 411 | 4.0 | 54 | J | 5.4 | -4 | 2 | 5.2 | 0.2 | -0.4 | 1 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 407 | 5.0 | 73 | J | 4.9 | 14 | 307 | 2.8 | -3.5 | 1.8 | 1 | J |
| 9 | 402 | 5.8 | 74 | J | 4.6 | 9 | 293 | 1.7 | -3.8 | 1.5 | 1 | J |
| 10 | 393 | 6.1 | 68 | J | 4.3 | -2 | 296 | 1.9 | -3.8 | 0.7 | 1 | J |
| 11 | 383 | 5.6 | 48 | J | 4.5 | -5 | 307 | 2.6 | -3.4 | 0.4 | 1 | J |
| 12 | 388 | 5.6 | 55 | J | 4.5 | -3 | 298 | 1.9 | -3.5 | 0.5 | 2 | J |
| 13 | 382 | 4.7 | 43 | J | 5.1 | -11 | 339 | 4.6 | -1.9 | -0.6 | 1 | J |
| 14 | 378 | 5.3 | 44 | J | 4.7 | -1 | 326 | 3.6 | -2.4 | 0.3 | 2 | J |
| 15 | 370 | 6.3 | 45 | J | 4.9 | -23 | 327 | 3.6 | -2.5 | -1.5 | 2 | J |
| 16 | 370 | 7.1 | 42 | J | 4.9 | -19 | 312 | 3.0 | -3.5 | -1.4 | 1 | J |
| 17 | 371 | 7.6 | 38 | J | 5.0 | -18 | 306 | 2.7 | -3.7 | -1.5 | 1 | J |
| 18 | 371 | 8.1 | 39 | J | 5.4 | -1 | 293 | 1.8 | -4.1 | -0.3 | 3 | J |
| 19 | 390 | 8.8 | 42 | J | 5.5 | 21 | 248 | -1.7 | -4.5 | 1.4 | 2 | J |
| 20 | 392 | 8.8 | 50 | J | 5.1 | -1 | 250 | -1.6 | -4.5 | -0.7 | 1 | J |
| 21 | 368 | 8.2 | 57 | J | 6.1 | -22 | 311 | 3.5 | -3.6 | -2.9 | 2 | J |
| 22 | 367 | 9.4 | 67 | J | 6.5 | -11 | 306 | 3.6 | -4.6 | -2.1 | 2 | J |
| 23 | 378 | 10.9 | 41 | J | 7.0 | 7 | 283 | 1.5 | -6.5 | -0.6 | 2 | J |
| 24 | 381 | 12.2 | 39 | J | 8.0 | 7 | 280 | 1.3 | -7.7 | -0.7 | 2 | J |

DEC. 22, 1983 356

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 13.3 | 41 | J | 9.0 | 7 | 292 | 3.2 | -8.1 | -0.6 | 2 | J |
| 2 | 373 | 21.4 | 40 | J | 7.8 | 9 | 294 | 3.0 | -6.9 | 0.0 | 3 | J |
| 3 | 374 | 31.8 | 37 | J | 4.6 | 17 | 308 | 2.3 | -3.1 | 0.8 | 3 | J |
| 4 | 373 | 23.7 | 58 | J | 7.8 | 1 | 288 | 2.3 | -6.9 | -0.4 | 3 | J |
| 5 | 366 | 22.1 | 27 | J | 7.6 | -4 | 115 | -2.3 | 4.9 | -0.3 | 6 | J |
| 6 | 396 | 14.8 | 37 | J | 10.1 | 2 | 103 | -2.2 | 9.7 | -0.2 | 2 | J |
| 7 | 408 | 9.0 | 43 | J | 10.5 | -3 | 116 | -4.4 | 9.0 | -1.5 | 3 | J |
| 8 | 415 | 13.9 | 54 | J | 10.2 | -4 | 135 | -6.8 | 6.6 | -1.7 | 3 | J |
| 9 | 404 | 7.6 | 64 | J | 10.7 | -24 | 158 | -9.0 | 2.7 | -4.9 | 2 | J |
| 10 | 405 | 7.0 | 75 | J | 10.4 | -31 | 165 | -8.5 | 1.1 | -5.7 | 2 | J |
| 11 | 412 | 6.4 | 90 | J | 9.5 | -15 | 142 | -7.1 | 4.9 | -3.5 | 2 | J |
| 12 | 415 | 6.5 | 97 | J | 8.6 | -14 | 151 | -7.0 | 3.4 | -2.7 | 2 | J |
| 13 | 404 | 8.9 | 216 | J | 7.1 | -29 | 143 | -4.0 | 2.5 | -3.3 | 4 | J |
| 14 | 392 | 8.6 | 165 | J | 8.0 | -24 | 153 | -6.0 | 2.6 | -3.4 | 3 | J |
| 15 | 394 | 9.4 | 86 | J | 8.3 | -6 | 134 | -5.6 | 5.7 | -1.4 | 2 | J |
| 16 | 378 | 9.6 | 35 | J | 8.7 | -4 | 134 | -5.7 | 5.8 | -0.9 | 3 | J |
| 17 | 352 | 19.1 | 31 | J | 7.3 | -51 | 144 | -3.7 | 2.7 | -5.7 | 1 | J |
| 18 | 343 | 24.0 | 24 | J | 5.9 | -39 | 136 | -3.1 | 3.1 | -3.3 | 2 | J |
| 19 | 345 | 17.8 | 26 | J | 7.1 | -4 | 97 | -0.8 | 6.5 | 0.2 | 3 | J |
| 20 | 348 | 11.3 | 33 | J | 7.8 | -4 | 110 | -1.3 | 7.3 | 0.6 | 2 | J |
| 21 | 347 | 11.9 | 36 | J | 7.4 | 4 | 109 | -2.3 | 6.6 | 1.7 | 2 | J |
| 22 | 373 | 12.1 | 29 | J | 8.5 | 12 | 96 | -0.8 | 7.4 | 3.3 | 2 | J |
| 23 | 382 | 9.8 | 57 | J | 7.8 | 37 | 84 | 0.6 | 4.7 | 5.6 | 3 | J |
| 24 | | | | | | | | | | | | |

DEC. 23, 1983 357

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 10.7 | 7 | 73 | 3.0 | 9.5 | 3.3 | 2 | J |
| 2 | 415 | 7.0 | 90 | J | 10.6 | 11 | 82 | 1.4 | 9.3 | 3.6 | 3 | J |
| 3 | 409 | 9.3 | 99 | J | 8.9 | 31 | 110 | -2.1 | 5.2 | 4.5 | 5 | J |
| 4 | 413 | 7.3 | 58 | J | 9.5 | -1 | 102 | -1.8 | 8.4 | 0.5 | 4 | J |
| 5 | 410 | 6.7 | 51 | J | 8.9 | -21 | 111 | -2.8 | 7.5 | -2.9 | 3 | J |
| 6 | 424 | 8.1 | 91 | J | 6.8 | -37 | 116 | -2.1 | 4.2 | -3.9 | 3 | J |
| 7 | 410 | 6.8 | 68 | J | 4.7 | -12 | 133 | -2.5 | 2.6 | -1.0 | 3 | J |
| 8 | 412 | 6.7 | 66 | J | 4.2 | -29 | 128 | -1.8 | 2.1 | -2.0 | 3 | J |
| 9 | 408 | 6.7 | 59 | J | 4.0 | 39 | 167 | -2.5 | 0.9 | 1.9 | 2 | J |
| 10 | 415 | 6.6 | 51 | J | 4.0 | 35 | 94 | -0.2 | 2.6 | 1.1 | 3 | J |
| 11 | | | | | 4.1 | 41 | 129 | -1.1 | 1.7 | 1.3 | 3 | J |
| 12 | 423 | 6.5 | 63 | J | 4.4 | -10 | 54 | 2.1 | 2.8 | -1.2 | 2 | J |
| 13 | 429 | 6.7 | 77 | J | 4.5 | -33 | 46 | 2.4 | 2.1 | -2.7 | 1 | J |
| 14 | 423 | 6.7 | 59 | J | 4.7 | -23 | 62 | 1.9 | 3.4 | -2.2 | 1 | J |
| 15 | 406 | 6.7 | 50 | J | 5.4 | -30 | 109 | -1.4 | 3.7 | -2.8 | 3 | J |
| 16 | 398 | 7.3 | 44 | J | 5.9 | -1 | 108 | -1.7 | 5.3 | -0.3 | 2 | J |
| 17 | 397 | 8.2 | 43 | J | 5.7 | -7 | 89 | 0.1 | 5.3 | -0.6 | 2 | J |
| 18 | 386 | 8.3 | 42 | J | 5.7 | 24 | 90 | 0.0 | 4.4 | 2.3 | 3 | J |
| 19 | 373 | 7.1 | 33 | J | 5.7 | -28 | 129 | -2.9 | 3.8 | -2.0 | 2 | J |
| 20 | 374 | 8.2 | 30 | J | 5.7 | -39 | 136 | -2.6 | 2.9 | -2.5 | 3 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

## DEC. 24, 1983

358

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.8 | 70 | 103 | -0.3 | 0.4 | 3.5 | 4 | C |
| 2 | 367 | 10.9 | 18 | J | 7.4 | 75 | 21 | 1.8 | -0.7 | 7.2 | 0 | J |
| 3 | 368 | 12.2 | 17 | J | 7.3 | 69 | 37 | 2.1 | 0.6 | 6.9 | 1 | J |
| 4 | 368 | 13.3 | 17 | J | 7.6 | 66 | 34 | 2.5 | 1.1 | 7.0 | 1 | J |
| 5 | 366 | 14.3 | 16 | J | 8.9 | 78 | 98 | -0.3 | 1.6 | 8.6 | 2 | J |
| 6 | 355 | 13.4 | 19 | J | 8.9 | 62 | 120 | -2.0 | 3.8 | 7.5 | 2 | J |
| 7 | 353 | 14.4 | 26 | J | 8.4 | 62 | 129 | -2.4 | 3.6 | 6.8 | 2 | J |
| 8 | 364 | 19.2 | 34 | J | 7.5 | 61 | 92 | -0.1 | 4.5 | 6.0 | 0 | J |
| 9 | 370 | 20.3 | 32 | J | 10.1 | 49 | 97 | -0.8 | 7.4 | 6.0 | 3 | J |
| 10 | 374 | 19.5 | 22 | J | 11.8 | 86 | 41 | 0.6 | 2.8 | 11.3 | 2 | J |
| 11 | 375 | 23.6 | 21 | J | 10.8 | 49 | 110 | -2.2 | 7.5 | 6.1 | 4 | J |
| 12 | | | | | 10.0 | 1 | 177 | -5.9 | 0.3 | 0.0 | 8 | J |
| 13 | 408 | 13.7 | 49 | J | 12.1 | -68 | 135 | -2.8 | 1.1 | -10.1 | 6 | J |
| 14 | 382 | 12.2 | 42 | J | 13.2 | -72 | 148 | -3.4 | 0.5 | -12.3 | 3 | J |
| 15 | | | | | 13.5 | -25 | 118 | -5.3 | 9.6 | -6.3 | 4 | C |
| 16 | | | | | 12.9 | 0 | 111 | -4.3 | 11.5 | -0.5 | 3 | C |
| 17 | 405 | 6.8 | 200 | J | 12.2 | -17 | 109 | -3.7 | 10.8 | -3.3 | 2 | J |
| 18 | 409 | 7.9 | 198 | J | 11.1 | -24 | 110 | -3.3 | 9.3 | -3.7 | 4 | J |
| 19 | 419 | 8.3 | 218 | J | 9.7 | -21 | 95 | -0.8 | 9.0 | -2.3 | 3 | J |
| 20 | 412 | 7.3 | 189 | J | 8.2 | -35 | 113 | -2.2 | 5.7 | -3.0 | 5 | J |
| 21 | 412 | 6.9 | 186 | J | 8.6 | -56 | 126 | -2.7 | 5.0 | -5.9 | 2 | J |
| 22 | | | | | 9.7 | -4 | 87 | 0.4 | 8.2 | 1.3 | 5 | J |
| 23 | 408 | 11.3 | 126 | J | 10.0 | -1 | 75 | 2.4 | 8.6 | 1.9 | 4 | J |
| 24 | | | | | 8.7 | -41 | 83 | 0.8 | 7.2 | -3.8 | 3 | J |

## DEC. 25, 1983

359

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 13.3 | 101 | J | 8.6 | -77 | 323 | 1.1 | 0.5 | -6.2 | 6 | J |
| 2 | 394 | 14.5 | 114 | J | 8.2 | -5 | 280 | 1.1 | -6.1 | -1.8 | 5 | J |
| 3 | 385 | 11.8 | 117 | J | 7.2 | -34 | 89 | 0.1 | 5.0 | -2.4 | 5 | J |
| 4 | 389 | 11.1 | 109 | J | 8.0 | -18 | 93 | -0.3 | 6.4 | -1.4 | 5 | J |
| 5 | 383 | 10.9 | 108 | J | 9.0 | -2 | 109 | -2.6 | 7.6 | -0.0 | 4 | J |
| 6 | 380 | 11.5 | 132 | J | 8.9 | 23 | 108 | -2.2 | 7.0 | 2.9 | 4 | J |
| 7 | 372 | 11.4 | 141 | J | 9.2 | 5 | 117 | -4.1 | 8.0 | 0.1 | 2 | J |
| 8 | 373 | 12.4 | 180 | J | 9.1 | 9 | 113 | -3.3 | 7.9 | 0.3 | 3 | J |
| 9 | | | | | 9.5 | 12 | 98 | -1.2 | 8.7 | 0.4 | 2 | C |
| 10 | | | | | 9.0 | 20 | 104 | -1.9 | 8.0 | 1.3 | 3 | C |
| 11 | | | | | 9.5 | -1 | 138 | -7.0 | 6.1 | -1.4 | 1 | J |
| 12 | 379 | 8.6 | 61 | J | 9.7 | 14 | 107 | -2.6 | 8.9 | 0.7 | 2 | C |
| 13 | 359 | 8.6 | 58 | J | 8.8 | -11 | 87 | 0.4 | 7.6 | -2.8 | 3 | J |
| 14 | 382 | 9.3 | 66 | J | 7.3 | -34 | 172 | -5.3 | 0.3 | -3.7 | 3 | J |
| 15 | | | | | 6.9 | -20 | 152 | -5.1 | 2.5 | -2.3 | 2 | C |
| 16 | | | | | 7.1 | -1 | 159 | -6.1 | 2.3 | -0.2 | 3 | C |
| 17 | 390 | 9.6 | 85 | J | 7.3 | 9 | 135 | -4.8 | 4.8 | 1.2 | 2 | J |
| 18 | 406 | 9.6 | 55 | J | 7.6 | 17 | 122 | -3.0 | 4.7 | 2.1 | 5 | J |
| 19 | 404 | 8.8 | 40 | J | 9.1 | -21 | 72 | 2.4 | 7.7 | -2.0 | 4 | J |
| 20 | 420 | 9.1 | 34 | J | 9.3 | -6 | 87 | 0.5 | 9.0 | 0.6 | 2 | J |
| 21 | 419 | 9.4 | 32 | J | 8.9 | -2 | 95 | -0.7 | 8.3 | 1.4 | 2 | J |
| 22 | 406 | 9.9 | 48 | J | 8.7 | 2 | 109 | -2.5 | 7.1 | 2.0 | 4 | J |
| 23 | 412 | 9.9 | 35 | J | 9.4 | 7 | 105 | -2.3 | 8.1 | 3.2 | 2 | J |
| 24 | | | | | 8.7 | 17 | 87 | 0.4 | 7.2 | 4.4 | 2 | C |

## DEC. 26, 1983

360

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 10.3 | 52 | L | 8.2 | 6 | 122 | -1.7 | 7.3 | 2.6 | 2 | C |
| 2 | | | | | 7.9 | 11 | 131 | -4.7 | 5.0 | 2.5 | 2 | C |
| 3 | | | | | 8.0 | -13 | 150 | -6.2 | 3.9 | -1.1 | 3 | C |
| 4 | | | | | 8.9 | -23 | 169 | -7.7 | 1.8 | -3.1 | 2 | C |
| 5 | | | | | 8.6 | 12 | 156 | -7.3 | 3.2 | 1.8 | 2 | C |
| 6 | | | | | 7.7 | 17 | 133 | -4.6 | 5.0 | 2.0 | 2 | C |
| 7 | | | | | 7.5 | -24 | 134 | -4.6 | 4.5 | -3.3 | 2 | C |
| 8 | | | | | 11.2 | 5 | 136 | -7.9 | 7.6 | 0.0 | 2 | C |
| 9 | | | | | 10.1 | 5 | 137 | -7.2 | 6.8 | -0.2 | 2 | C |
| 10 | 396 | 35.1 | 29 | L | 11.0 | 40 | 169 | -8.1 | 2.8 | 6.6 | 2 | J |
| 11 | 397 | 44.5 | 31 | L | 8.4 | 39 | 231 | -2.0 | -1.9 | 2.9 | 8 | J |
| 12 | | | | | 6.1 | 0 | 320 | 1.6 | -1.3 | 0.2 | 6 | J |
| 13 | | | | | 5.1 | 32 | 205 | -2.6 | -0.9 | 1.9 | 4 | C |
| 14 | | | | | 5.0 | 7 | 90 | 0.0 | 2.0 | 0.0 | 4 | C |
| 15 | | | | | 9.1 | 6 | 313 | 5.2 | -5.5 | 1.2 | 5 | C |
| 16 | | | | | 6.0 | 49 | 221 | -1.8 | -0.6 | 2.2 | 5 | C |
| 17 | | | | | 8.2 | 0 | 313 | 4.0 | -4.3 | -0.1 | 6 | C |
| 18 | | | | | 5.5 | 33 | 184 | -1.1 | -0.1 | 0.7 | 5 | C |
| 19 | | | | | 8.6 | -27 | 2 | 7.3 | 0.7 | -3.7 | 2 | C |
| 20 | | | | | 9.0 | -13 | 344 | 8.0 | -1.9 | -2.3 | 3 | C |
| 21 | | | | | 8.9 | 6 | 322 | 6.3 | -5.0 | -0.3 | 3 | C |
| 22 | | | | | 9.7 | -6 | 338 | 8.7 | -3.2 | -1.8 | 1 | C |
| 23 | | | | | | | | | | | | |
| 24 | | | | | 7.0 | 8 | 343 | 4.6 | -1.6 | 0.3 | 5 | C |

## DEC. 27, 1983

361

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | 7.3 | 23 | 300 | 3.3 | -5.4 | 3.5 | 1 | C |
| 8 | | | | | 7.7 | 10 | 310 | 4.6 | -5.3 | 2.1 | 2 | C |
| 9 | | | | | 7.2 | 7 | 321 | 5.3 | -4.1 | 1.6 | 2 | C |
| 10 | | | | | 6.3 | 27 | 295 | 1.6 | -3.0 | 2.4 | 4 | C |
| 11 | | | | | 5.8 | 26 | 323 | 3.7 | -2.4 | 2.7 | 2 | C |
| 12 | | | | | 7.6 | 32 | 313 | 3.0 | -2.8 | 3.2 | 5 | C |
| 13 | | | | | 8.8 | 8 | 296 | 3.5 | -7.0 | 1.9 | 3 | C |
| 14 | | | | | 7.5 | -1 | 299 | 2.8 | -5.0 | 0.3 | 4 | C |
| 15 | | | | | 6.9 | -8 | 322 | 3.6 | -2.8 | -0.6 | 5 | C |
| 16 | | | | | 5.9 | 9 | 283 | 1.1 | -4.8 | 0.6 | 3 | C |
| 17 | | | | | 8.1 | -6 | 322 | 5.6 | -4.3 | -1.2 | 3 | C |
| 18 | | | | | 8.3 | -8 | 324 | 6.1 | -4.2 | -1.6 | 3 | C |
| 19 | | | | | 8.4 | -22 | 337 | 6.3 | -2.1 | -3.2 | 3 | C |
| 20 | | | | | 11.3 | -17 | 295 | 4.3 | -8.4 | -5.2 | 3 | C |
| 21 | | | | | 9.5 | -11 | 307 | 5.3 | -6.5 | -3.5 | 2 | C |
| 22 | | | | | 8.5 | -4 | 307 | 4.7 | -5.8 | -2.1 | 2 | C |
| 23 | | | | | 8.8 | 1 | 300 | 4.0 | -6.7 | -1.6 | 3 | C |
| 24 | | | | | | | | | | | | |

## DEC. 28, 1983

362

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 8.3 | -2 | 321 | 5.9 | -4.5 | -1.4 | 3 | C |
| 2 | | | | | 9.3 | 18 | 290 | 2.7 | -7.9 | 0.9 | 3 | C |
| 3 | | | | | 9.2 | 11 | 299 | 4.2 | -7.6 | 0.4 | 2 | C |
| 4 | | | | | 9.0 | 14 | 292 | 3.0 | -7.6 | 1.1 | 2 | C |
| 5 | | | | | 8.2 | 11 | 308 | 4.5 | -5.7 | 1.0 | 3 | C |
| 6 | | | | | 8.4 | 24 | 325 | 6.0 | -4.2 | 3.2 | 2 | C |
| 7 | | | | | 7.1 | 2 | 326 | 5.3 | -3.5 | 0.4 | 3 | C |
| 8 | | | | | 7.1 | -20 | 328 | 4.4 | -2.9 | -1.6 | 4 | C |
| 9 | | | | | 6.9 | 6 | 319 | 4.5 | -3.8 | 1.2 | 3 | C |
| 10 | | | | | 6.2 | -21 | 327 | 3.9 | -2.8 | -1.3 | 3 | C |
| 11 | | | | | 6.4 | -19 | 320 | 4.1 | -3.8 | -1.2 | 3 | C |
| 12 | | | | | 5.7 | 3 | 326 | 4.5 | -3.0 | 0.7 | 0 | C |
| 13 | | | | | 5.9 | -26 | 315 | 3.1 | -3.3 | -1.7 | 3 | C |
| 14 | | | | | | | | | | | | |
| 15 | | | | | 6.3 | -3 | 315 | 4.2 | -4.2 | -0.1 | 2 | C |
| 16 | | | | | 5.1 | 25 | 335 | 3.9 | -1.8 | 2.0 | 2 | C |
| 17 | | | | | 5.0 | 43 | 332 | 3.1 | -1.8 | 3.2 | 1 | C |
| 18 | | | | | 4.9 | 25 | 326 | 3.0 | -2.1 | 1.5 | 2 | C |
| 19 | | | | | 4.6 | 10 | 329 | 3.2 | -2.0 | 0.4 | 2 | C |
| 20 | | | | | 5.2 | -4 | 339 | 4.8 | -1.7 | -0.7 | 1 | C |
| 21 | | | | | 5.0 | -15 | 331 | 4.1 | -2.0 | -1.7 | 1 | C |
| 22 | | | | | 4.3 | 4 | 8 | 4.1 | 0.5 | 0.4 | 1 | C |
| 23 | | | | | 3.8 | 9 | 12 | 3.0 | 0.5 | 0.7 | 2 | C |
| 24 | | | | | 4.2 | -22 | 322 | 1.9 | -1.2 | -1.3 | 3 | C |

## DEC. 29, 1983

363

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 4.5 | -26 | 319 | 2.6 | -1.7 | -2.2 | 2 | C |
| 2 | | | | | 4.5 | -34 | 4 | 3.3 | 0.7 | -2.1 | 2 | C |
| 3 | | | | | 5.0 | -27 | 343 | 3.7 | -0.7 | -2.2 | 2 | C |
| 4 | | | | | 5.1 | 12 | 33 | 4.0 | 2.5 | 1.4 | 1 | C |
| 5 | | | | | 5.5 | -9 | 48 | 3.4 | 3.8 | -0.6 | 1 | C |
| 6 | | | | | 5.9 | -9 | 38 | 4.2 | 3.3 | -0.8 | 2 | C |
| 7 | | | | | 5.9 | -30 | 30 | 4.0 | 2.2 | -2.8 | 2 | C |
| 8 | | | | | 5.9 | -30 | 29 | 4.1 | 2.0 | -3.0 | 2 | C |
| 9 | | | | | 5.3 | -24 | 25 | 3.5 | 1.4 | -1.9 | 3 | C |
| 10 | | | | | 4.6 | -50 | 339 | 2.6 | -1.5 | -3.1 | 1 | C |
| 11 | | | | | 4.6 | -21 | 26 | 2.7 | 1.1 | -1.3 | 3 | C |
| 12 | | | | | 5.1 | 36 | 66 | 1.5 | 3.8 | 2.2 | 2 | C |
| 13 | | | | | 4.8 | -25 | 346 | 3.6 | -1.1 | -1.6 | 2 | C |
| 14 | | | | | 5.1 | 22 | 20 | 3.5 | 1.4 | 1.4 | 3 | C |
| 15 | | | | | 5.2 | -5 | 350 | 3.5 | -0.6 | -0.3 | 3 | C |
| 16 | | | | | 5.4 | 19 | 303 | 2.7 | -4.1 | 1.7 | 1 | C |
| 17 | | | | | 5.5 | 2 | 342 | 5.1 | -1.7 | 0.1 | 1 | C |
| 18 | | | | | 5.3 | 33 | 336 | 3.7 | -1.9 | 2.5 | 2 | C |
| 19 | | | | | 3.9 | 17 | 310 | 2.1 | -2.6 | 0.6 | 2 | C |
| 20 | | | | | 3.8 | 31 | 288 | 0.9 | -3.0 | 1.1 | 2 | C |
| 21 | | | | | 3.8 | 27 | 287 | 0.9 | -3.3 | 0.8 | 1 | C |
| 22 | | | | | 3.5 | 18 | 300 | 1.6 | -2.9 | 0.3 | 1 | C |
| 23 | | | | | 3.6 | -3 | 326 | 3.0 | -1.9 | -0.7 | 1 | C |
| 24 | | | | | 3.6 | 8 | 339 | 3.2 | -1.3 | 0.1 | 1 | C |

## DEC. 30, 1983

364

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 3.6 | -9 | 288 | 0.6 | -1.6 | -0.8 | 3 | C |
| 2 | | | | | 3.4 | -1 | 240 | -1.6 | -2.6 | -0.7 | 1 | C |
| 3 | | | | | 5.2 | -4 | 229 | -3.3 | -3.7 | -1.0 | 1 | C |
| 4 | | | | | 8.4 | -36 | 270 | -0.0 | -3.8 | -3.7 | 7 | C |
| 5 | | | | | 10.3 | 51 | 200 | -4.2 | -1.9 | 5.3 | 7 | C |
| 6 | | | | | 11.8 | 18 | 262 | -1.3 | -9.0 | 2.8 | 6 | C |
| 7 | | | | | 11.1 | -19 | 309 | 6.2 | -7.8 | -3.0 | 3 | C |
| 8 | | | | | 10.2 | 23 | 113 | -1.4 | 3.4 | 1.2 | 9 | C |
| 9 | | | | | 16.7 | -9 | 69 | 5.8 | 14.4 | -4.4 | 4 | C |
| 10 | | | | | 15.5 | -6 | 71 | 4.9 | 14.0 | -3.7 | 2 | C |
| 11 | | | | | 14.1 | -13 | 78 | 2.8 | 12.5 | -5.1 | 3 | C |
| 12 | | | | | 13.9 | -19 | 79 | 2.4 | 12.0 | -6.1 | 2 | C |
| 13 | | | | | 11.2 | -23 | 62 | 4.5 | 8.0 | -5.0 | 4 | C |
| 14 | | | | | 8.5 | 20 | 155 | -4.3 | 2.2 | 1.6 | 7 | C |
| 15 | 498 | 15.6 | 113 | J | 10.7 | 22 | 145 | -7.1 | 5.2 | 3.2 | 5 | C |
| 16 | 530 | 23.8 | 107 | J | 12.7 | -28 | 331 | 9.0 | -5.1 | -5.5 | 3 | C |
| 17 | 546 | 21.8 | 133 | J | 14.7 | -35 | 340 | 11.1 | -3.6 | -8.4 | 3 | C |
| 18 | 577 | 10.7 | 108 | J | 14.9 | -38 | 334 | 10.1 | -3.9 | -9.3 | 3 | C |
| 19 | 574 | 10.4 | 107 | J | 15.2 | -21 | 311 | 8.0 | -8.3 | -6.2 | 7 | C |
| 20 | 566 | 13.3 | 92 | J | 13.8 | -16 | 328 | 10.9 | -6.0 | -4.9 | 3 | C |
| 21 | 584 | 8.9 | 80 | J | 12.4 | -3 | 339 | 11.2 | -4.0 | -1.6 | 3 | C |
| 22 | 581 | 9.9 | 77 | J | 10.9 | 12 | 352 | 10.2 | -2.0 | 1.8 | 2 | C |
| 23 | | | | | 10.2 | 2 | 359 | 10.0 | -0.3 | 0.3 | 2 | C |
| 24 | | | | | 9.0 | -2 | 20 | 8.1 | 2.9 | 0.5 | 2 | C |

## DEC. 31, 1983

365

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 530 | 10.6 | 148 | J | 5.6 | -15 | 8 | 5.3 | 1.1 | -1.2 | 2 | J |
| 2 | 511 | 9.9 | 148 | J | 5.3 | -25 | 17 | 4.0 | 1.6 | -1.6 | 3 | J |
| 3 | 530 | 8.8 | 118 | J | 6.6 | -20 | 344 | 5.5 | -1.1 | -2.4 | 3 | J |
| 4 | 531 | 9.5 | 87 | J | 7.2 | -19 | 355 | 6.3 | -0.2 | -2.2 | 3 | C |
| 5 | | | | | 8.1 | -55 | 324 | 2.7 | -1.6 | -4.9 | 5 | C |
| 6 | 555 | 15.1 | 168 | J | 7.2 | -35 | 335 | 5.1 | -2.3 | -4.0 | 1 | J |
| 7 | 547 | 16.3 | 121 | J | 6.2 | -46 | 312 | 2.8 | -3.3 | -4.2 | 1 | J |
| 8 | | | | | 6.9 | -37 | 321 | 4.2 | -3.7 | -3.8 | 2 | C |
| 9 | | | | | 6.8 | -36 | 310 | 3.2 | -4.3 | -3.1 | 2 | C |
| 10 | | | | | 6.2 | -33 | 309 | 3.0 | -4.0 | -2.6 | 2 | C |
| 11 | | | | | 6.5 | -39 | 295 | 2.1 | -5.1 | -3.4 | 1 | C |
| 12 | 538 | 4.9 | 55 | J | 6.4 | -27 | 285 | 1.4 | -5.7 | -2.1 | 2 | J |
| 13 | 519 | 6.3 | 58 | J | 5.7 | -55 | 301 | 1.5 | -3.0 | -3.9 | 3 | J |
| 14 | 519 | 12.1 | 57 | J | 3.1 | -14 | 348 | 1.1 | -0.3 | -0.3 | 3 | J |
| 15 | 521 | 11.8 | 69 | J | 4.5 | -22 | 310 | 2.0 | -2.4 | -1.1 | 3 | J |
| 16 | 521 | 10.5 | 65 | J | 5.5 | -50 | 308 | 2.0 | -2.5 | -3.9 | 2 | J |
| 17 | 503 | 20.3 | 55 | J | 4.9 | -64 | 304 | 1.0 | -1.2 | -3.7 | 3 | J |
| 18 | 496 | 19.7 | 53 | J | 3.9 | -39 | 287 | 0.7 | -1.9 | -2.1 | 3 | J |
| 19 | 483 | 12.7 | 37 | J | 6.8 | -27 | 305 | 3.3 | -4.2 | -3.7 | 2 | J |
| 20 | 486 | 8.1 | 37 | J | 7.9 | -29 | 306 | 3.9 | -4.5 | -4.7 | 2 | J |
| 21 | 486 | 10.8 | 54 | J | 7.3 | -55 | 296 | 1.8 | -2.1 | -6.5 | 2 | J |
| 22 | 472 | 11.2 | 65 | J | 8.1 | -22 | 126 | -3.7 | 5.6 | -1.1 | 4 | J |
| 23 | 475 | 10.5 | 212 | J | 7.9 | -15 | 110 | -2.6 | 7.5 | 0.1 | 1 | J |
| 24 | | | | | 10.6 | -23 | 131 | -6.1 | 8.0 | -1.8 | 2 | C |

# 01/01/84 – 01/12/84

JAN. 1, 1984 1

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 495 | 12.7 | 96 | J | | | | | | | | |
| 12 | 509 | 13.2 | 99 | J | | | | | | | | |
| 13 | 497 | 13.0 | 106 | J | | | | | | | | |
| 14 | 489 | 13.3 | 134 | J | | | | | | | | |
| 15 | 475 | 12.5 | 135 | J | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 495 | 10.4 | 208 | J | | | | | | | | |
| 22 | 507 | 11.6 | 189 | J | | | | | | | | |
| 23 | 515 | 10.5 | 232 | J | | | | | | | | |
| 24 | 519 | 8.0 | 173 | J | | | | | | | | |

JAN. 2, 1984 2

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 495 | 6.9 | 84 | J | | | | | | | | |
| 2 | 534 | 8.5 | 195 | J | | | | | | | | |
| 3 | 538 | 9.3 | 194 | J | | | | | | | | |
| 4 | 544 | 9.0 | 183 | J | | | | | | | | |
| 5 | 530 | 8.1 | 192 | J | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 531 | 8.7 | 151 | J | | | | | | | | |
| 8 | 504 | 6.2 | 86 | J | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 560 | 6.3 | 171 | J | | | | | | | | |
| 13 | 554 | 6.8 | 164 | J | | | | | | | | |
| 14 | 560 | 6.0 | 119 | J | | | | | | | | |
| 15 | 574 | 4.9 | 148 | J | | | | | | | | |
| 16 | 552 | 4.4 | 159 | J | | | | | | | | |
| 17 | 558 | 4.7 | 134 | J | | | | | | | | |
| 18 | 535 | 4.4 | 175 | J | | | | | | | | |
| 19 | 516 | 4.7 | 115 | J | | | | | | | | |
| 20 | 515 | 3.5 | 65 | J | | | | | | | | |
| 21 | 517 | 3.7 | 107 | J | | | | | | | | |
| 22 | 507 | 5.1 | 66 | J | | | | | | | | |
| 23 | 504 | 5.5 | 133 | J | | | | | | | | |
| 24 | | | | | | | | | | | | |

JAN. 3, 1984 3

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 500 | 6.4 | 134 | J | | | | | | | | |
| 2 | 501 | 6.0 | 125 | J | | | | | | | | |
| 3 | 500 | 6.5 | 105 | J | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 477 | 9.4 | 91 | J | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 412 | 8.9 | 39 | J | | | | | | | | |
| 14 | 411 | 9.9 | 47 | J | | | | | | | | |
| 15 | 430 | 11.9 | 91 | J | | | | | | | | |
| 16 | 434 | 14.5 | 109 | J | | | | | | | | |
| 17 | 431 | 14.2 | 111 | J | | | | | | | | |
| 18 | 418 | 13.2 | 77 | J | | | | | | | | |
| 19 | 444 | 12.2 | 68 | J | | | | | | | | |
| 20 | 434 | 13.4 | 68 | J | | | | | | | | |
| 21 | 440 | 13.7 | 65 | J | | | | | | | | |
| 22 | 416 | 10.2 | 63 | J | | | | | | | | |
| 23 | 410 | 7.0 | 51 | J | | | | | | | | |
| 24 | | | | | | | | | | | | |

JAN. 4, 1984 4

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 408 | 7.5 | 102 | J | | | | | | | | |
| 2 | 436 | 7.8 | 95 | J | | | | | | | | |
| 3 | 433 | 6.1 | 76 | J | | | | | | | | |
| 4 | 439 | 10.0 | 198 | J | | | | | | | | |
| 5 | 471 | 13.9 | 262 | J | | | | | | | | |
| 6 | 515 | 16.1 | 288 | J | | | | | | | | |
| 7 | 494 | 10.7 | 277 | J | | | | | | | | |
| 8 | 532 | 17.6 | 172 | J | | | | | | | | |
| 9 | 520 | 19.3 | 114 | J | | | | | | | | |
| 10 | 518 | 15.7 | 93 | J | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 584 | 10.1 | 386 | J | | | | | | | | |
| 16 | 559 | 10.7 | 387 | J | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 584 | 9.9 | 329 | J | 12.2 | -4 | 115 | -4.3 | 9.1 | 0.6 | 7 | J |
| 19 | 576 | 9.9 | 308 | J | 12.2 | 4 | 120 | -5.8 | 9.8 | 2.8 | 3 | J |
| 20 | | | | | | | | | | | | |
| 21 | 569 | 9.4 | 327 | J | 12.0 | -6 | 127 | -6.6 | 8.8 | 1.3 | 4 | J |
| 22 | 563 | 10.3 | 306 | J | 12.1 | 8 | 128 | -6.3 | 7.3 | 3.8 | 6 | J |
| 23 | 552 | 11.0 | 252 | J | 11.7 | 20 | 147 | -8.5 | 4.1 | 5.3 | 4 | J |
| 24 | | | | | | | | | | | | |

JAN. 5, 1984 5

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 564 | 8.4 | 261 | J | 10.2 | -16 | 122 | -5.0 | 8.4 | -0.4 | 3 | J |
| 3 | 591 | 10.3 | 287 | J | 10.0 | -38 | 87 | 0.3 | 6.7 | -3.0 | 7 | J |
| 4 | 566 | 8.7 | 244 | J | 8.6 | 29 | 151 | -5.7 | 2.4 | 4.1 | 4 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 612 | 4.1 | 115 | J | 6.0 | -29 | 122 | -2.6 | 3.9 | -3.1 | 2 | J |
| 13 | 633 | 3.9 | 115 | J | 6.0 | -31 | 98 | -0.7 | 4.5 | -3.2 | 2 | J |
| 14 | 600 | 3.9 | 144 | J | 5.8 | 0 | 147 | -4.7 | 3.0 | -0.1 | 1 | J |
| 15 | 611 | 3.7 | 116 | J | 5.3 | 24 | 164 | -4.4 | 1.3 | 2.0 | 2 | J |
| 16 | 612 | 3.7 | 111 | J | 5.4 | 5 | 201 | -4.5 | -1.7 | 0.3 | 2 | J |
| 17 | 611 | 3.7 | 124 | J | 5.5 | 24 | 188 | -4.2 | -0.8 | 1.8 | 3 | J |
| 18 | 617 | 3.9 | 116 | J | 5.4 | 16 | 208 | -4.2 | -2.4 | 1.0 | 2 | J |
| 19 | 607 | 3.7 | 121 | J | 5.3 | 0 | 198 | -4.5 | -1.4 | -0.3 | 2 | J |
| 20 | 594 | 3.6 | 144 | J | 5.5 | -1 | 205 | -4.3 | -1.9 | -0.6 | 2 | J |
| 21 | 599 | 3.8 | 162 | J | 5.2 | 17 | 173 | -4.2 | 0.1 | 1.4 | 3 | J |
| 22 | | | | | 5.0 | 13 | 197 | -4.0 | -1.5 | 0.5 | 3 | J |
| 23 | 582 | 4.2 | 148 | J | 5.3 | -9 | 202 | -4.3 | -1.4 | -1.3 | 2 | J |
| 24 | 579 | 3.7 | 116 | J | 5.0 | -14 | 160 | -3.9 | 1.7 | -0.5 | 2 | J |

JAN. 6, 1984 6

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 5.3 | 11 | 91 | -0.1 | 3.9 | 2.2 | 3 | J |
| 2 | 581 | 3.7 | 75 | J | 5.2 | 9 | 170 | -2.7 | 0.3 | 0.6 | 4 | J |
| 3 | | | | | 5.1 | 17 | 164 | -4.5 | 0.9 | 1.7 | 2 | J |
| 4 | 594 | 4.3 | 128 | J | 4.9 | 6 | 131 | -2.3 | 2.6 | 0.9 | 3 | J |
| 5 | | | | | 4.6 | -57 | 183 | -1.7 | 0.3 | -2.6 | 3 | J |
| 6 | | | | | | | | | | | | |
| 7 | 581 | 4.3 | 101 | J | 4.7 | -20 | 135 | -2.1 | 2.1 | -1.1 | 3 | J |
| 8 | 562 | 4.0 | 76 | J | 4.8 | -28 | 164 | -3.6 | 1.0 | -2.1 | 2 | J |
| 9 | 539 | 4.1 | 125 | J | 4.6 | -24 | 173 | -4.2 | 0.4 | -1.9 | 1 | J |
| 10 | 543 | 3.5 | 80 | J | 4.7 | -36 | 153 | -3.3 | 1.4 | -2.8 | 1 | J |
| 11 | 537 | 4.1 | 89 | L | 4.7 | -35 | 147 | -3.2 | 1.8 | -2.9 | 0 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 522 | 4.3 | 62 | J | 3.7 | -41 | 138 | -1.7 | 1.4 | -2.0 | 2 | J |
| 15 | 517 | 4.6 | 60 | J | 4.2 | -68 | 211 | -1.1 | -0.7 | -3.2 | 2 | J |
| 16 | 508 | 4.4 | 55 | J | 4.7 | -33 | 156 | -3.2 | 1.6 | -2.2 | 2 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 4.9 | 51 | 141 | -2.2 | 0.6 | 3.9 | 2 | J |
| 23 | | | | | 4.9 | 39 | 173 | -3.3 | -0.5 | 2.7 | 2 | J |
| 24 | | | | | 4.8 | 17 | 173 | -4.6 | 0.1 | 1.5 | 0 | J |

JAN. 7, 1984 7

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 4.9 | -11 | 127 | -2.7 | 3.6 | 0.2 | 2 | J |
| 3 | | | | | 5.2 | -23 | 141 | -3.7 | 3.4 | -1.2 | 1 | J |
| 4 | | | | | 5.2 | -30 | 142 | -3.5 | 3.2 | -2.0 | 1 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 341 | 5.8 | 135 | L | | | | | | | | |
| 20 | 342 | 7.3 | 120 | L | | | | | | | | |
| 21 | 356 | 7.4 | 98 | L | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JAN. 12, 1984 12

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 413 | 4.3 | 38 | J | 8.5 | 4 | 291 | 2.8 | -7.3 | -0.5 | 3 | J |
| 18 | 398 | 4.8 | 62 | J | 8.2 | 9 | 305 | 4.4 | -6.4 | -0.1 | 2 | J |
| 19 | 389 | 4.8 | 61 | J | 8.6 | 11 | 309 | 5.1 | -6.5 | -0.0 | 2 | J |
| 20 | 369 | 3.7 | 31 | J | 7.9 | 14 | 327 | 6.3 | -4.4 | 0.6 | 1 | J |
| 21 | 406 | 5.4 | 56 | J | 8.0 | 21 | 297 | 3.1 | -6.6 | 0.5 | 3 | J |
| 22 | 404 | 5.4 | 27 | J | 8.0 | 28 | 276 | 0.7 | -7.8 | 1.0 | 1 | J |
| 23 | 406 | 5.3 | 31 | J | 7.8 | 23 | 279 | 1.1 | -7.5 | 0.2 | 1 | J |
| 24 | | | | | | | | | | | | |

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## 01/13/84 – 01/24/84

### JAN. 13, 1984

13

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 374 | 7.3 | 27 | J | 7.2 | -23 | 342 | 6.0 | -1.1 | -3.2 | 2 | J |
| 4 | 395 | 6.9 | 40 | J | 6.8 | -12 | 339 | 5.8 | -1.9 | -1.8 | 2 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 413 | 15.3 | 68 | J | 5.4 | -4 | 298 | 1.9 | -3.6 | -3.2 | 1 | J |
| 13 | 413 | 15.9 | 65 | J | 5.4 | -2 | 294 | 1.7 | -3.8 | -0.1 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | 400 | 13.7 | 55 | J | 8.9 | -27 | 347 | 7.6 | -1.5 | -4.0 | 2 | J |
| 16 | 399 | 13.8 | 52 | J | 9.2 | -34 | 354 | 7.6 | -0.3 | -5.2 | 1 | J |
| 17 | 411 | 15.9 | 68 | J | 8.1 | 56 | 261 | -0.7 | -5.3 | 5.7 | 2 | J |
| 18 | 408 | 18.5 | 63 | J | 8.4 | 6 | 281 | 1.3 | -6.5 | -0.7 | 5 | J |
| 19 | 420 | 17.1 | 98 | J | 6.5 | 30 | 293 | 1.9 | -5.0 | 1.6 | 3 | J |
| 20 | 430 | 15.8 | 144 | J | 6.5 | 53 | 296 | 1.4 | -4.0 | 3.2 | 4 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

### JAN. 15, 1984

15

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 405 | 6.5 | 59 | J | 7.1 | 28 | 347 | 5.9 | -2.5 | 2.5 | 1 | J |
| 2 | 404 | 6.3 | 63 | J | 6.8 | -17 | 324 | 5.0 | -2.8 | -3.0 | 2 | J |
| 3 | 401 | 6.4 | 95 | J | 6.0 | 13 | 315 | 3.4 | -3.6 | 0.0 | 4 | J |
| 4 | 421 | 7.0 | 60 | J | 6.2 | 85 | 310 | 0.3 | -1.7 | 5.0 | 3 | J |
| 5 | 429 | 7.5 | 82 | J | 6.1 | 68 | 185 | -2.2 | -1.3 | 5.3 | 1 | J |
| 6 | 414 | 6.9 | 54 | J | 6.2 | -10 | 266 | -0.3 | -3.6 | -1.2 | 5 | J |
| 7 | 395 | 7.3 | 80 | J | 6.4 | -31 | 295 | 2.1 | -4.3 | -3.4 | 2 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 373 | 7.3 | 40 | J | 5.8 | -28 | 323 | 3.5 | -2.5 | -2.4 | 3 | J |
| 15 | 364 | 6.8 | 51 | J | 5.9 | -8 | 320 | 4.2 | -3.5 | -1.0 | 2 | J |
| 16 | 395 | 8.5 | 57 | J | 6.2 | -21 | 266 | -0.4 | -4.9 | -2.6 | 3 | J |
| 17 | 373 | 7.5 | 52 | J | 6.4 | 12 | 293 | 2.3 | -5.6 | 0.3 | 2 | J |
| 18 | 373 | 6.9 | 47 | J | 6.5 | 15 | 296 | 2.7 | -5.8 | 0.4 | 1 | J |
| 19 | 371 | 7.4 | 69 | J | 6.0 | -6 | 304 | 3.1 | -4.2 | -1.8 | 2 | J |
| 20 | 380 | 7.9 | 74 | J | 5.5 | 15 | 292 | 1.5 | -3.9 | -0.1 | 3 | J |
| 21 | 384 | 8.0 | 80 | J | 5.8 | 27 | 285 | 0.9 | -4.0 | 0.5 | 4 | J |
| 22 | 391 | 7.7 | 55 | J | 6.3 | 13 | 267 | -0.3 | -5.7 | -0.9 | 2 | J |
| 23 | | | | | 5.4 | -6 | 323 | 4.2 | -2.7 | -1.7 | 1 | J |
| 24 | 373 | 8.5 | 56 | J | 5.4 | 1 | 282 | 1.0 | -4.5 | -1.8 | 2 | J |

### JAN. 17, 1984

17

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 369 | 9.0 | 35 | J | 7.1 | -15 | 244 | -2.8 | -4.7 | -3.8 | 2 | J |
| 2 | 368 | 11.0 | 46 | J | 6.9 | -56 | 207 | -2.9 | 0.3 | -5.0 | 4 | J |
| 3 | 358 | 8.2 | 28 | J | 7.7 | -17 | 273 | 0.4 | -6.0 | -4.3 | 2 | J |
| 4 | 363 | 8.1 | 21 | J | 7.7 | -8 | 265 | -0.7 | -6.9 | -3.0 | 1 | J |
| 5 | 366 | 9.2 | 26 | J | 7.4 | 13 | 275 | 0.6 | -6.8 | 0.1 | 3 | J |
| 6 | 366 | 9.3 | 26 | J | 7.5 | 11 | 267 | -0.3 | -6.8 | 0.3 | 3 | J |
| 7 | 377 | 11.3 | 25 | J | 7.5 | 2 | 253 | -2.1 | -6.8 | -0.4 | 3 | J |
| 8 | | | | | 7.9 | 14 | 298 | 3.6 | -6.9 | 1.6 | 1 | J |
| 9 | 360 | 12.1 | 35 | J | 7.9 | 11 | 300 | 3.5 | -6.1 | 1.3 | 3 | J |
| 10 | 357 | 12.8 | 44 | J | 7.9 | 23 | 297 | 3.2 | -6.3 | 3.1 | 2 | J |
| 11 | 344 | 13.8 | 77 | J | 7.8 | 24 | 312 | 4.7 | -5.2 | 3.2 | 1 | J |
| 12 | | | | | | | | | | | | |
| 13 | 351 | 13.0 | 52 | J | 7.4 | 1 | 306 | 4.2 | -5.7 | 0.1 | 2 | J |
| 14 | 338 | 12.6 | 22 | J | 7.1 | 6 | 324 | 5.6 | -4.1 | 0.6 | 1 | J |
| 15 | 339 | 12.5 | 29 | J | 7.1 | 2 | 321 | 5.4 | -4.3 | -0.1 | 1 | J |
| 16 | 338 | 13.0 | 27 | J | 6.5 | -11 | 318 | 4.3 | -3.7 | -1.6 | 3 | J |
| 17 | 336 | 13.0 | 24 | J | 6.5 | -7 | 303 | 3.4 | -4.9 | -1.7 | 2 | J |
| 18 | 335 | 12.7 | 20 | J | 6.6 | 15 | 301 | 3.2 | -5.5 | 0.4 | 1 | J |
| 19 | 331 | 12.7 | 24 | J | 6.4 | 10 | 303 | 3.1 | -4.9 | -0.4 | 3 | J |
| 20 | 323 | 13.0 | 33 | J | 6.1 | 3 | 339 | 5.7 | -2.2 | -0.4 | 1 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 5.8 | 28 | 322 | 3.7 | -3.6 | 1.2 | 2 | J |
| 23 | 324 | 12.7 | 28 | J | 5.7 | 27 | 313 | 3.3 | -4.3 | 0.9 | 1 | J |
| 24 | | | | | 5.1 | 25 | 312 | 3.0 | -3.9 | 0.6 | 1 | J |

### JAN. 19, 1984

19

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 322 | 32.1 | 24 | J | 8.9 | -35 | 299 | 2.8 | -3.1 | -5.7 | 5 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 338 | 42.6 | 32 | J | 8.0 | -45 | 185 | -5.5 | 1.1 | -5.4 | 2 | J |
| 5 | 334 | 38.4 | 57 | J | 7.3 | -55 | 200 | -3.7 | -0.0 | -5.8 | 2 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | 14.2 | -32 | 175 | -10.6 | 1.3 | -6.6 | 7 | J |
| 9 | | | | | 13.7 | -27 | 148 | -7.3 | 4.7 | -4.3 | 10 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 10.4 | -5 | 133 | -6.6 | 7.1 | 0.2 | 4 | J |
| 17 | 439 | 13.7 | 154 | L | 10.3 | 19 | 127 | -5.5 | 6.6 | 4.5 | 3 | J |
| 18 | 404 | 13.4 | 196 | L | 7.4 | 34 | 108 | -1.2 | 3.0 | 3.5 | 6 | J |
| 19 | 398 | 15.5 | 189 | L | 6.1 | 40 | 133 | -1.7 | 1.1 | 2.6 | 5 | J |
| 20 | | | | | 8.6 | -24 | 143 | -6.1 | 5.4 | -1.7 | 2 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

### JAN. 14, 1984

14

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 439 | 5.3 | 85 | L | 5.2 | 10 | 359 | 5.1 | -0.3 | 0.9 | 1 | J |
| 6 | 428 | 4.4 | 93 | J | 4.7 | 7 | 355 | 4.5 | -0.5 | 0.5 | 1 | J |
| 7 | 424 | 4.0 | 84 | J | 5.1 | 7 | 328 | 4.2 | -2.7 | 0.4 | 1 | J |
| 8 | 421 | 4.7 | 81 | J | 4.8 | 15 | 321 | 3.5 | -2.9 | 1.1 | 1 | J |
| 9 | 417 | 3.9 | 60 | J | 5.0 | 8 | 306 | 2.8 | -3.8 | 0.7 | 1 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 413 | 3.8 | 85 | L | 5.4 | -44 | 286 | 1.0 | -3.7 | -3.5 | 1 | J |
| 13 | 390 | 3.3 | 69 | J | 5.1 | -3 | 322 | 3.6 | -2.8 | -0.2 | 2 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 389 | 3.6 | 34 | J | 6.2 | -13 | 317 | 4.3 | -3.8 | -1.8 | 2 | J |
| 17 | 387 | 2.9 | 53 | J | 6.3 | 13 | 342 | 5.6 | -2.0 | 1.0 | 2 | J |
| 18 | 393 | 3.6 | 34 | J | 6.1 | 2 | 320 | 4.1 | -3.4 | -0.6 | 3 | J |
| 19 | 406 | 4.0 | 38 | J | 5.8 | -9 | 326 | 4.3 | -2.6 | -1.5 | 3 | J |
| 20 | | | | | | | | | | | | |
| 21 | 411 | 4.8 | 39 | J | 5.7 | -36 | 2 | 4.4 | 1.2 | -3.0 | 1 | J |
| 22 | 411 | 4.8 | 52 | J | 5.7 | -18 | 330 | 4.0 | -1.6 | -2.2 | 3 | J |
| 23 | 410 | 5.0 | 70 | J | 5.7 | 12 | 326 | 3.6 | -2.6 | -0.1 | 4 | J |
| 24 | 405 | 5.4 | 63 | J | 6.2 | 5 | 337 | 4.8 | -2.0 | -0.4 | 3 | J |

### JAN. 16, 1984

16

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 358 | 8.7 | 78 | J | 5.6 | 14 | 318 | 3.9 | -3.7 | -0.1 | 1 | J |
| 2 | 353 | 9.4 | 60 | J | 5.8 | 4 | 302 | 2.9 | -4.5 | -1.3 | 2 | J |
| 3 | 353 | 10.1 | 76 | J | 6.3 | -8 | 307 | 3.6 | -4.2 | -2.3 | 2 | J |
| 4 | 354 | 11.3 | 76 | J | 6.4 | -20 | 315 | 4.1 | -3.4 | -3.1 | 2 | J |
| 5 | 361 | 12.9 | 55 | J | 6.4 | -36 | 313 | 3.3 | -2.7 | -4.2 | 2 | J |
| 6 | 364 | 14.5 | 39 | J | 6.9 | 3 | 288 | 1.6 | -4.9 | -0.4 | 5 | J |
| 7 | 363 | 11.8 | 32 | J | 7.4 | 56 | 240 | -2.0 | -3.9 | 5.5 | 2 | J |
| 8 | 364 | 13.6 | 35 | J | 6.6 | 79 | 144 | -0.9 | 0.4 | 6.0 | 3 | J |
| 9 | 364 | 14.9 | 32 | J | 6.1 | 66 | 84 | 0.3 | 2.4 | 5.4 | 2 | J |
| 10 | 370 | 15.9 | 37 | J | 6.4 | 41 | 116 | -2.0 | 4.1 | 3.9 | 2 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 357 | 14.3 | 66 | J | 6.4 | -14 | 309 | 3.7 | -4.6 | -1.5 | 2 | J |
| 14 | 366 | 12.2 | 69 | J | 7.6 | -11 | 303 | 3.8 | -5.8 | -1.6 | 3 | J |
| 15 | 373 | 11.6 | 50 | J | 6.8 | -58 | 311 | 1.5 | -1.5 | -3.9 | 5 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 356 | 10.9 | 63 | J | 7.4 | -12 | 265 | -0.6 | -6.0 | -2.8 | 3 | J |
| 19 | | | | | 6.9 | 19 | 303 | 3.1 | -5.2 | 0.6 | 3 | J |
| 20 | | | | | 7.0 | 26 | 277 | 0.7 | -6.4 | 0.9 | 3 | J |
| 21 | 347 | 11.7 | 48 | J | | | | | | | | |
| 22 | 348 | 10.8 | 54 | J | 6.7 | -25 | 281 | 1.0 | -3.9 | -4.3 | 3 | J |
| 23 | 349 | 10.1 | 53 | J | 6.5 | -53 | 254 | -0.9 | -1.2 | -5.1 | 4 | J |
| 24 | 377 | 9.2 | 38 | J | 7.3 | -13 | 240 | -3.5 | -4.9 | -3.8 | 2 | J |

### JAN. 18, 1984

18

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 317 | 14.5 | 32 | J | 5.1 | 30 | 306 | 2.4 | -4.0 | 0.9 | 2 | J |
| 2 | 314 | 14.5 | 32 | J | 5.3 | 14 | 307 | 2.9 | -4.0 | -0.3 | 1 | J |
| 3 | 312 | 14.8 | 37 | J | 5.0 | 20 | 326 | 3.7 | -2.9 | 0.7 | 2 | J |
| 4 | 316 | 15.7 | 33 | J | 5.4 | 23 | 315 | 3.3 | -3.7 | 1.0 | 2 | J |
| 5 | 320 | 17.0 | 34 | J | 5.3 | 37 | 344 | 4.1 | -1.8 | 2.9 | 1 | J |
| 6 | 328 | 17.0 | 22 | J | 6.7 | 25 | 268 | -0.2 | -6.3 | 1.8 | 1 | J |
| 7 | 328 | 17.7 | 24 | J | 6.7 | 17 | 268 | -0.2 | -6.3 | 1.2 | 2 | J |
| 8 | 326 | 18.5 | 28 | J | 5.8 | 1 | 283 | 1.2 | -5.3 | -0.2 | 2 | J |
| 9 | 318 | 18.5 | 32 | J | 6.9 | -10 | 304 | 3.7 | -5.5 | -1.3 | 1 | J |
| 10 | 317 | 18.8 | 28 | J | 7.8 | -24 | 307 | 4.1 | -5.5 | -3.0 | 2 | J |
| 11 | | | | | 7.8 | -39 | 325 | 4.8 | -3.4 | -4.7 | 2 | J |
| 12 | | | | | 8.6 | 31 | 255 | -1.9 | -7.1 | 4.5 | 0 | J |
| 13 | | | | | | | | | | | | |
| 14 | 323 | 16.9 | 22 | J | 8.2 | 46 | 260 | -1.0 | -5.7 | 5.4 | 3 | J |
| 15 | 326 | 19.9 | 21 | J | 7.2 | 47 | 253 | -1.4 | -5.1 | 4.8 | 1 | J |
| 16 | 321 | 17.4 | 24 | J | 7.1 | 46 | 252 | -1.5 | -5.3 | 4.4 | 1 | J |
| 17 | | | | | 6.2 | 12 | 268 | -0.2 | -6.1 | 0.1 | 1 | J |
| 18 | 332 | 22.4 | 29 | J | 8.5 | -13 | 284 | 2.0 | -7.2 | -3.7 | 3 | J |
| 19 | 338 | 23.1 | 21 | J | 11.7 | -12 | 289 | 3.6 | -9.3 | -5.2 | 3 | J |
| 20 | 334 | 24.5 | 23 | J | 11.1 | -15 | 291 | 3.8 | -8.4 | -6.0 | 2 | J |
| 21 | 334 | 26.3 | 20 | J | 10.4 | -2 | 293 | 3.9 | -8.4 | -3.6 | 3 | J |
| 22 | 332 | 25.5 | 17 | J | 10.5 | -19 | 293 | 3.7 | -6.7 | -6.4 | 3 | J |
| 23 | 331 | 26.9 | 16 | J | 10.3 | -37 | 283 | 1.9 | -4.8 | -8.9 | 1 | J |
| 24 | 330 | 31.8 | 21 | J | 10.1 | -38 | 295 | 3.3 | -4.0 | -8.5 | 2 | J |

### JAN. 24, 1984

24

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 383 | 11.1 | 59 | L | | | | | | | | |
| 14 | 389 | 11.3 | 42 | J | 6.2 | 42 | 25 | 4.1 | 1.6 | 4.2 | 1 | J |
| 15 | 394 | 11.2 | 42 | J | 6.6 | 44 | 24 | 4.3 | 1.3 | 4.8 | 1 | J |
| 16 | 390 | 11.4 | 41 | J | 6.7 | 46 | 24 | 4.3 | 1.0 | 5.1 | 0 | J |
| 17 | 391 | 11.7 | 40 | J | | | | | | | | |
| 18 | 382 | 11.1 | 46 | J | 7.3 | 44 | 9 | 5.1 | -0.6 | 5.0 | 1 | J |
| 19 | 413 | 8.8 | 46 | J | 7.4 | 46 | 9 | 5.1 | -0.9 | 5.3 | 1 | J |
| 20 | 381 | 11.5 | 32 | J | 7.5 | 47 | 24 | 4.3 | -0.0 | 5.4 | 3 | J |
| 21 | 382 | 12.9 | 43 | J | 7.7 | 50 | 4 | 4.7 | -1.9 | 5.3 | 2 | J |
| 22 | 394 | 12.8 | 49 | J | 7.9 | 35 | 336 | 5.8 | -4.2 | 3.0 | 1 | J |
| 23 | 445 | 9.2 | 49 | J | 7.8 | 54 | 344 | 4.4 | -3.8 | 5.1 | 1 | J |
| 24 | | | | | | | | | | | | |

JAN. 25, 1984

25

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 382 | 17.0 | 64 | J | 5.9 | -32 | 273 | 0.2 | -4.1 | -3.1 | 3 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 360 | 17.4 | 73 | J | 6.9 | 9 | 343 | 6.4 | -2.2 | 0.4 | 1 | J |
| 20 | 367 | 17.0 | 67 | J | 6.1 | -28 | 278 | 0.6 | -2.9 | -3.4 | 4 | J |
| 21 | 367 | 15.8 | 52 | J | 6.6 | -16 | 268 | -0.2 | -4.6 | -3.8 | 3 | J |
| 22 | 368 | 15.2 | 45 | J | 5.6 | -26 | 266 | -0.3 | -2.5 | -3.1 | 4 | J |
| 23 | 359 | 15.0 | 81 | J | 4.3 | -24 | 295 | 1.0 | -1.5 | -1.9 | 4 | J |
| 24 | 360 | 14.5 | 54 | J | 5.4 | -52 | 243 | -1.0 | -0.5 | -3.3 | 4 | J |

JAN. 26, 1984

26

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 370 | 15.0 | 40 | J | 5.5 | -51 | 211 | -2.5 | 0.2 | -4.0 | 3 | J |
| 2 | | | | | 5.1 | -34 | 256 | -0.8 | -2.0 | -3.3 | 3 | J |
| 3 | 378 | 15.8 | 50 | J | 5.7 | -26 | 230 | -3.2 | -2.6 | -3.6 | 1 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 374 | 21.0 | 32 | J | 9.3 | -49 | 262 | -0.7 | -3.9 | -7.2 | 4 | J |
| 7 | 364 | 20.4 | 51 | J | 8.8 | -55 | 289 | 1.3 | -2.9 | -6.4 | 5 | J |
| 8 | 368 | 21.4 | 52 | J | 8.7 | -28 | 274 | 0.4 | -5.5 | -3.8 | 6 | J |
| 9 | 370 | 22.8 | 52 | J | 8.2 | -7 | 280 | 1.3 | -7.2 | -1.4 | 3 | J |
| 10 | 370 | 23.3 | 54 | J | 9.1 | 23 | 290 | 2.5 | -6.9 | 2.7 | 5 | J |
| 11 | | | | | | | | | | | | |
| 12 | 363 | 14.5 | 67 | J | 8.6 | 49 | 308 | 3.4 | -4.7 | 6.2 | 1 | J |
| 13 | 383 | 13.7 | 107 | J | 6.1 | -32 | 256 | -0.8 | -3.0 | -2.2 | 5 | J |
| 14 | 388 | 13.5 | 94 | J | 6.7 | -15 | 260 | -0.9 | -5.0 | -1.9 | 4 | J |
| 15 | 383 | 13.0 | 75 | J | 7.5 | -20 | 270 | -0.0 | -6.2 | -3.3 | 3 | J |
| 16 | 393 | 12.4 | 75 | J | 7.3 | -34 | 263 | -0.7 | -4.7 | -4.6 | 3 | J |
| 17 | 394 | 11.1 | 72 | J | 6.6 | -58 | 241 | -1.6 | -1.6 | -5.9 | 2 | J |
| 18 | 385 | 11.3 | 78 | J | 7.2 | 12 | 300 | 3.2 | -5.7 | -0.3 | 3 | J |
| 19 | 392 | 10.4 | 59 | J | 6.8 | 25 | 294 | 2.2 | -5.5 | 0.7 | 3 | J |
| 20 | 390 | 9.4 | 61 | J | 6.8 | 30 | 302 | 3.0 | -5.6 | 1.2 | 2 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JAN. 27, 1984

27

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 377 | 6.5 | 90 | J | 4.9 | 2 | 341 | 4.4 | -1.4 | -0.5 | 1 | J |
| 2 | 391 | 8.0 | 76 | J | 5.4 | 5 | 332 | 4.6 | -2.4 | -0.6 | 1 | J |
| 3 | 410 | 7.5 | 46 | J | 5.2 | -54 | 263 | -0.2 | -0.8 | -3.3 | 4 | J |
| 4 | 404 | 7.0 | 67 | J | 4.8 | -22 | 310 | 1.4 | -1.3 | -1.4 | 4 | J |
| 5 | 390 | 7.0 | 74 | J | 4.1 | -23 | 351 | 3.3 | -0.1 | -1.5 | 2 | J |
| 6 | 386 | 6.5 | 70 | J | 3.4 | -9 | 344 | 2.6 | -0.6 | -0.6 | 2 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 379 | 6.0 | 34 | J | 4.3 | -3 | 13 | 4.1 | 1.0 | -0.1 | 1 | J |
| 10 | 376 | 6.7 | 28 | J | 4.8 | 9 | 0 | 4.6 | -0.0 | 0.7 | 1 | J |
| 11 | 378 | 6.4 | 30 | J | 4.4 | -5 | 333 | 3.4 | -1.7 | -0.4 | 2 | J |
| 12 | 373 | 6.9 | 26 | J | 4.8 | -9 | 338 | 4.2 | -1.7 | -0.8 | 2 | J |
| 13 | 376 | 7.3 | 28 | J | 4.6 | -6 | 305 | 2.2 | -3.1 | -0.6 | 3 | J |
| 14 | | | | | 4.5 | -23 | 55 | 2.4 | 3.6 | -1.4 | 0 | J |
| 15 | | | | | 4.7 | -29 | 147 | -3.1 | 2.3 | -1.7 | 2 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JAN. 28, 1984

28

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 374 | 36.1 | 15 | J | 2.3 | 35 | 301 | 0.2 | -0.3 | 0.1 | 2 | J |
| 4 | 380 | 44.3 | 25 | J | 4.3 | -63 | 213 | -1.6 | 0.3 | -4.0 | 0 | J |
| 5 | 376 | 49.8 | 21 | J | 7.5 | -41 | 274 | 0.4 | -3.9 | -6.1 | 3 | J |
| 6 | 375 | 36.9 | 37 | J | 10.0 | -33 | 146 | -2.7 | 2.3 | -1.7 | 9 | J |
| 7 | 416 | 13.0 | 71 | J | 12.0 | -1 | 134 | -7.8 | 8.0 | 1.2 | 4 | J |
| 8 | | | | | | | | | | | | |
| 9 | 453 | 16.6 | 98 | J | 13.1 | 12 | 117 | -5.4 | 10.4 | 3.4 | 5 | J |
| 10 | 466 | 14.1 | 165 | J | 13.9 | -36 | 138 | -7.2 | 6.9 | -6.6 | 7 | J |
| 11 | 496 | 13.3 | 216 | J | 13.2 | -7 | 138 | -8.8 | 8.0 | -1.0 | 6 | J |
| 12 | 509 | 12.6 | 274 | J | 14.9 | 34 | 129 | -7.7 | 9.0 | 8.8 | 1 | J |
| 13 | 507 | 12.5 | 239 | J | 15.8 | 29 | 123 | -7.3 | 10.7 | 8.3 | 3 | J |
| 14 | 511 | 14.7 | 296 | J | 14.0 | 15 | 126 | -7.8 | 10.3 | 4.7 | 3 | J |
| 15 | 517 | 16.5 | 281 | L | 12.0 | -31 | 143 | -6.1 | 5.2 | -3.9 | 8 | J |
| 16 | 541 | 9.9 | 231 | L | 10.2 | -13 | 148 | -7.5 | 5.0 | -1.1 | 5 | J |
| 17 | 560 | 10.2 | 235 | L | 9.5 | 8 | 133 | -5.6 | 5.6 | 2.6 | 5 | J |
| 18 | 536 | 7.2 | 209 | J | 10.6 | 0 | 142 | -7.6 | 5.7 | 1.7 | 4 | J |
| 19 | 536 | 7.0 | 156 | J | 11.5 | 18 | 137 | -7.9 | 5.7 | 5.8 | 2 | J |
| 20 | 556 | 8.8 | 279 | J | 9.6 | -10 | 131 | -5.3 | 6.2 | 1.0 | 5 | J |
| 21 | 546 | 10.5 | 340 | J | 9.5 | -23 | 129 | -4.3 | 6.1 | -0.4 | 6 | J |
| 22 | 507 | 9.7 | 140 | J | 11.2 | -10 | 141 | -8.3 | 6.9 | 1.3 | 3 | J |
| 23 | 496 | 9.9 | 111 | J | 12.1 | -5 | 135 | -8.2 | 7.7 | 2.8 | 3 | J |
| 24 | 496 | 11.6 | 143 | J | 10.4 | 8 | 143 | -7.7 | 4.5 | 3.8 | 4 | J |

JAN. 29, 1984

29

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 564 | 13.0 | 221 | J | 11.7 | -83 | 239 | -0.7 | 3.8 | -10.1 | 4 | J |
| 2 | 499 | 15.4 | 175 | J | 11.2 | -6 | 129 | -6.3 | 7.4 | 2.3 | 5 | J |
| 3 | 489 | 16.4 | 198 | J | 11.2 | 21 | 151 | -8.1 | 2.8 | 5.0 | 5 | J |
| 4 | 501 | 16.3 | 191 | J | 12.0 | -29 | 121 | -3.6 | 7.0 | -1.6 | 9 | J |
| 5 | 473 | 16.0 | 206 | J | 12.3 | -1 | 131 | -7.8 | 8.7 | 2.4 | 3 | J |
| 6 | 472 | 14.6 | 152 | J | 12.4 | 4 | 137 | -8.8 | 7.8 | 2.7 | 3 | J |
| 7 | 460 | 13.2 | 178 | J | 12.9 | -5 | 133 | -7.8 | 8.4 | 0.5 | 6 | J |
| 8 | | | | | 13.8 | -4 | 131 | -8.3 | 9.6 | 0.3 | 5 | J |
| 9 | 485 | 11.7 | 142 | J | 12.2 | 13 | 114 | -4.6 | 10.0 | 3.5 | 4 | J |
| 10 | 479 | 15.5 | 153 | J | 10.6 | -33 | 159 | -7.4 | 3.2 | -4.9 | 5 | J |
| 11 | 470 | 16.8 | 116 | J | 10.8 | -18 | 166 | -7.8 | 2.1 | -2.5 | 7 | J |
| 12 | 513 | 15.5 | 143 | J | 10.7 | 1 | 88 | 0.4 | 10.2 | 0.8 | 3 | J |
| 13 | 478 | 15.6 | 155 | J | 10.6 | 13 | 126 | -5.0 | 6.7 | 2.5 | 6 | J |
| 14 | 485 | 16.0 | 143 | J | 9.6 | 11 | 145 | -6.8 | 4.5 | 2.1 | 5 | J |
| 15 | 513 | 15.4 | 164 | J | 10.0 | 32 | 102 | -1.7 | 6.9 | 6.1 | 4 | J |
| 16 | 508 | 15.0 | 154 | J | 10.2 | 22 | 104 | -2.2 | 7.8 | 5.3 | 3 | J |
| 17 | 509 | 13.4 | 140 | J | 10.4 | 32 | 92 | -0.3 | 7.0 | 7.3 | 2 | J |
| 18 | 486 | 14.2 | 155 | J | 9.9 | 22 | 140 | -6.3 | 4.0 | 4.7 | 4 | J |
| 19 | 497 | 13.8 | 189 | J | 10.6 | 17 | 132 | -5.6 | 5.0 | 4.6 | 6 | J |
| 20 | 482 | 12.5 | 114 | J | 12.2 | -5 | 164 | -11.2 | 3.4 | 0.3 | 4 | J |
| 21 | 493 | 12.6 | 114 | J | 12.0 | 22 | 153 | -9.1 | 2.5 | 5.7 | 5 | J |
| 22 | | | | | 10.1 | -39 | 163 | -6.9 | 4.5 | -4.3 | 4 | J |
| 23 | | | | | 10.1 | -49 | 183 | -5.5 | 2.7 | -5.8 | 6 | J |
| 24 | | | | | 10.2 | -28 | 134 | -5.6 | 7.1 | -1.1 | 5 | J |

JAN. 30, 1984

30

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 9.8 | -22 | 131 | -4.6 | 6.0 | -0.1 | 6 | J |
| 2 | | | | | 10.4 | -25 | 134 | -5.7 | 7.0 | -0.9 | 5 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 8.4 | -9 | 248 | -2.8 | -6.0 | -3.5 | 4 | J |
| 5 | | | | | 8.9 | -37 | 236 | -2.4 | -2.4 | -4.1 | 7 | J |
| 6 | | | | | 5.1 | 25 | 196 | -3.4 | -1.3 | 1.4 | 4 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 707 | 6.7 | 206 | J | 7.6 | 23 | 161 | -5.4 | 1.6 | 2.6 | 4 | J |
| 15 | 697 | 6.6 | 168 | J | 7.3 | 18 | 161 | -6.1 | 1.7 | 2.4 | 3 | J |
| 16 | 751 | 5.8 | 264 | J | 7.0 | -3 | 151 | -3.7 | 2.0 | 0.2 | 6 | J |
| 17 | | | | | | | | | | | | |
| 18 | 656 | 5.4 | 192 | J | 6.7 | -10 | 189 | -5.5 | -0.5 | -1.2 | 3 | J |
| 19 | 655 | 5.8 | 197 | J | 7.6 | -2 | 147 | -5.7 | 3.5 | 1.1 | 3 | J |
| 20 | 652 | 5.8 | 173 | J | 7.0 | -7 | 202 | -5.9 | -1.9 | -1.7 | 3 | J |
| 21 | | | | | 7.1 | -18 | 193 | -6.5 | -0.4 | -2.6 | 1 | J |
| 22 | 627 | 4.7 | 69 | J | 7.1 | -12 | 172 | -6.1 | 1.4 | -0.8 | 3 | J |
| 23 | 663 | 5.1 | 167 | J | 7.4 | -8 | 136 | -4.1 | 3.9 | 1.1 | 4 | J |
| 24 | 633 | 5.2 | 125 | J | 7.8 | -15 | 137 | -5.1 | 5.1 | 0.6 | 3 | J |

JAN. 31, 1984

31

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 650 | 5.4 | 183 | J | 8.2 | -2 | 123 | -3.8 | 5.3 | 2.4 | 4 | J |
| 2 | 641 | 5.0 | 160 | J | 8.2 | 8 | 126 | -4.3 | 4.9 | 3.5 | 3 | J |
| 3 | 653 | 4.5 | 182 | J | 6.9 | -15 | 183 | -3.8 | 0.2 | -1.0 | 6 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 649 | 5.0 | 283 | J | 7.1 | -8 | 139 | -5.2 | 4.6 | 0.1 | 2 | J |
| 7 | 663 | 4.8 | 223 | J | 7.3 | -11 | 148 | -6.0 | 3.9 | -0.7 | 1 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | 6.3 | -18 | 166 | -5.7 | 1.9 | -1.5 | 1 | J |
| 18 | 706 | 5.5 | 111 | J | 6.9 | -12 | 163 | -5.8 | 2.1 | -0.7 | 3 | J |
| 19 | | | | | 6.8 | -29 | 164 | -5.1 | 2.4 | -2.2 | 3 | J |
| 20 | 698 | 5.2 | 109 | J | 7.0 | 21 | 126 | -3.4 | 3.4 | 3.9 | 3 | J |
| 21 | 689 | 5.0 | 102 | J | 6.6 | 5 | 141 | -4.3 | 2.9 | 1.9 | 4 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

FEB. 1, 1984

32

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 685 | 4.8 | 168 | J | 6.1 | -45 | 142 | -2.2 | 2.8 | -1.7 | 4 | J |
| 2 | 691 | 5.4 | 257 | J | 6.1 | 23 | 134 | -3.3 | 2.2 | 3.3 | 3 | J |
| 3 | 679 | 5.2 | 238 | J | 6.0 | 37 | 186 | -3.4 | -1.4 | 2.2 | 4 | J |
| 4 | 676 | 5.1 | 226 | J | 5.7 | 15 | 146 | -3.1 | 1.6 | 1.7 | 4 | J |
| 5 | 664 | 5.2 | 216 | J | 5.7 | 31 | 180 | -4.4 | -0.8 | 2.5 | 3 | J |
| 6 | 675 | 5.2 | 213 | J | 5.4 | -29 | 145 | -2.6 | 2.2 | -1.2 | 4 | J |
| 7 | | | | | | | | | | | | |
| 8 | 660 | 4.9 | 241 | J | 6.2 | -26 | 169 | -4.0 | 1.0 | -1.8 | 4 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | 5.2 | -15 | 140 | -3.3 | 2.8 | -0.9 | 3 | J |
| 11 | | | | | 4.7 | -12 | 136 | -2.7 | 2.6 | -0.6 | 3 | J |
| 12 | | | | | 4.6 | 19 | 146 | -3.1 | 2.0 | 1.4 | 2 | J |
| 13 | | | | | 4.5 | 10 | 128 | -2.1 | 2.6 | 0.9 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | 637 | 3.2 | 142 | L | | | | | | | | |
| 16 | 633 | 3.0 | 95 | J | 3.8 | 42 | 137 | -1.9 | 1.2 | 2.7 | 2 | J |
| 17 | 629 | 3.1 | 90 | J | 4.0 | 20 | 169 | -2.6 | 0.2 | 1.1 | 3 | J |
| 18 | 618 | 3.5 | 145 | L | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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37

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 391 | 8.7 | 54 | J | 5.9 | -1 | 306 | 2.8 | -3.3 | -1.8 | 3 | J |
| 3 | 396 | 8.9 | 51 | J | 5.5 | 22 | 309 | 2.7 | -3.8 | 0.2 | 3 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 412 | 15.7 | 37 | J | 6.0 | 15 | 162 | -5.1 | 1.3 | 1.7 | 2 | J |
| 8 | 412 | 16.3 | 33 | J | 5.3 | -2 | 165 | -4.7 | 1.3 | 0.0 | 1 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 396 | 11.2 | 89 | J | 8.8 | 3 | 308 | 5.3 | -6.7 | -0.9 | 2 | J |
| 16 | 382 | 11.1 | 61 | J | 8.4 | 11 | 312 | 5.3 | -6.0 | 0.1 | 3 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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38

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 380 | 9.0 | 112 | J | 11.1 | 14 | 286 | 2.8 | -9.8 | -1.4 | 4 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 403 | 5.9 | 80 | J | 5.8 | 17 | 29 | 4.9 | 2.1 | 2.4 | 0 | J |
| 18 | 411 | 4.7 | 71 | J | 5.7 | 12 | 286 | 1.0 | -3.5 | -0.5 | 4 | J |
| 19 | 393 | 5.9 | 94 | J | 4.9 | 13 | 18 | 3.8 | 0.8 | 1.3 | 3 | J |
| 20 | 399 | 6.5 | 105 | J | 5.8 | 21 | 43 | 3.8 | 2.4 | 3.3 | 1 | J |
| 21 | 391 | 6.8 | 89 | J | 6.0 | -9 | 301 | 2.7 | -3.6 | -2.8 | 3 | J |
| 22 | 383 | 6.4 | 61 | J | 5.9 | 28 | 324 | 4.1 | -3.9 | 0.9 | 2 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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39

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 378 | 5.2 | 49 | J | 6.4 | 16 | 335 | 5.2 | -2.9 | 0.6 | 2 | J |
| 5 | 385 | 5.3 | 56 | J | 6.1 | 21 | 323 | 4.2 | -3.6 | 0.8 | 2 | J |
| 6 | 379 | 4.7 | 44 | J | 6.6 | -1 | 305 | 3.4 | -4.7 | -1.5 | 2 | J |
| 7 | 411 | 5.3 | 36 | J | 6.8 | 36 | 286 | 1.4 | -5.7 | 2.5 | 2 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 408 | 6.5 | 30 | J | 6.9 | -6 | 268 | -0.2 | -6.5 | -1.6 | 2 | J |
| 14 | 396 | 6.2 | 38 | J | 7.3 | 1 | 289 | 2.3 | -6.7 | -1.0 | 1 | J |
| 15 | | | | | | | | | | | | |
| 16 | 377 | 5.7 | 27 | J | 7.8 | 19 | 310 | 4.7 | -6.0 | 1.1 | 1 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 396 | 10.4 | 55 | J | 9.0 | 9 | 312 | 5.9 | -6.4 | -2.0 | 1 | J |
| 23 | 395 | 9.8 | 46 | J | 9.3 | -2 | 314 | 6.3 | -5.5 | -3.6 | 2 | J |
| 24 | | | | | | | | | | | | |

FEB. 9, 1984

40

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | 8.2 | -4 | 321 | 5.4 | -4.1 | -1.7 | 4 | J |
| 7 | 401 | 10.3 | 54 | J | 8.4 | -4 | 340 | 7.1 | -2.4 | -1.1 | 3 | J |
| 8 | 406 | 9.0 | 58 | J | 8.9 | 6 | 10 | 8.3 | 1.3 | 1.1 | 3 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 6.1 | 40 | 297 | 1.7 | -4.5 | 1.2 | 3 | J |
| 22 | 453 | 6.7 | 109 | J | 6.5 | 38 | 310 | 2.5 | -4.1 | 1.2 | 4 | J |
| 23 | 442 | 7.5 | 110 | J | 7.2 | 12 | 292 | 2.5 | -6.1 | -1.9 | 2 | J |
| 24 | | | | | 7.1 | 8 | 304 | 3.9 | -5.5 | -2.1 | 1 | J |

FEB. 10, 1984

41

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 424 | 8.6 | 87 | J | 7.2 | 15 | 308 | 4.2 | -5.5 | -1.1 | 2 | J |
| 2 | 430 | 10.6 | 125 | J | 7.2 | 38 | 342 | 4.0 | -2.7 | 2.3 | 5 | J |
| 3 | 422 | 11.4 | 147 | J | 7.5 | -3 | 47 | 4.8 | 4.8 | 1.9 | 2 | J |
| 4 | 405 | 9.5 | 74 | J | 7.7 | 16 | 337 | 5.7 | -2.9 | 0.7 | 4 | J |
| 5 | 402 | 9.5 | 67 | J | 8.3 | 15 | 303 | 4.3 | -7.0 | -0.3 | 1 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 12.8 | -13 | 318 | 9.2 | -5.8 | -6.6 | 3 | J |
| 23 | | | | | 14.1 | -21 | 300 | 6.2 | -6.8 | -9.6 | 5 | J |
| 24 | | | | | 14.4 | -22 | 286 | 3.3 | -7.4 | -9.9 | 7 | J |

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42

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 13.5 | 138 | J | 13.4 | -10 | 279 | 2.0 | -9.8 | -8.3 | 3 | J |
| 2 | 411 | 14.6 | 129 | J | 13.0 | -28 | 296 | 4.8 | -5.8 | -9.7 | 4 | J |
| 3 | 405 | 15.1 | 139 | J | 12.4 | -35 | 314 | 5.1 | -2.5 | -7.0 | 8 | J |
| 4 | 415 | 14.4 | 157 | J | 12.2 | 3 | 287 | 3.1 | -9.6 | -3.5 | 6 | J |
| 5 | 427 | 14.7 | 184 | J | 10.9 | 18 | 277 | 1.2 | -10.1 | -0.4 | 4 | J |
| 6 | 404 | 14.1 | 153 | J | 10.0 | -10 | 334 | 7.0 | -2.9 | -2.3 | 6 | J |
| 7 | 444 | 15.0 | 196 | J | 9.7 | 12 | 283 | 1.9 | -8.6 | -0.2 | 4 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 457 | 5.3 | 49 | J | 5.6 | -18 | 271 | 0.1 | -4.8 | -2.6 | 1 | J |
| 15 | 461 | 5.7 | 51 | J | 5.9 | 0 | 264 | -0.6 | -5.1 | -1.2 | 2 | J |
| 16 | 454 | 5.3 | 58 | J | 5.5 | 18 | 279 | 0.8 | -5.1 | 0.3 | 2 | J |
| 17 | 455 | 5.4 | 58 | J | 5.0 | 15 | 269 | -0.1 | -4.7 | -0.2 | 2 | J |
| 18 | 443 | 4.9 | 65 | J | 5.0 | 11 | 280 | 0.7 | -3.8 | -0.6 | 3 | J |
| 19 | 419 | 4.3 | 51 | J | 5.0 | -2 | 304 | 2.5 | -3.3 | -1.6 | 2 | J |
| 20 | 419 | 4.3 | 52 | J | 4.8 | -4 | 299 | 2.1 | -3.2 | -1.9 | 2 | J |
| 21 | | | | | 5.0 | -22 | 286 | 1.1 | -2.7 | -3.3 | 2 | J |
| 22 | | | | | 5.1 | 12 | 294 | 1.9 | -4.1 | -1.3 | 2 | J |
| 23 | | | | | 5.0 | 0 | 305 | 2.6 | -3.2 | -1.9 | 2 | J |
| 24 | | | | | 4.5 | 17 | 338 | 3.8 | -2.0 | 0.3 | 1 | J |

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43

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 4.8 | 10 | 299 | 2.1 | -3.7 | -1.1 | 2 | J |
| 3 | | | | | 5.0 | 48 | 295 | 1.3 | -4.1 | 1.9 | 2 | J |
| 4 | | | | | 4.7 | 50 | 312 | 2.0 | -3.4 | 2.3 | 1 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 377 | 6.4 | 25 | J | 5.1 | 38 | 284 | 0.9 | -3.9 | 2.2 | 2 | J |
| 10 | 385 | 6.7 | 29 | J | 5.4 | 18 | 265 | -0.4 | -4.6 | 0.8 | 3 | J |
| 11 | 373 | 6.0 | 29 | J | 5.5 | 22 | 283 | 1.0 | -4.6 | 1.2 | 2 | J |
| 12 | 369 | 5.4 | 24 | J | 6.0 | 13 | 290 | 1.9 | -5.3 | 0.6 | 2 | J |
| 13 | 360 | 4.1 | 21 | J | 6.4 | 11 | 292 | 2.3 | -5.8 | 0.3 | 1 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | 7.8 | -1 | 282 | 1.5 | -6.8 | -1.7 | 3 | J |
| 16 | | | | | 11.3 | 0 | 282 | 2.3 | -10.3 | -2.8 | 4 | J |
| 17 | 423 | 9.4 | 29 | J | 14.0 | 33 | 292 | 4.1 | -11.7 | 3.6 | 5 | J |
| 18 | 417 | 8.5 | 26 | J | 14.3 | 49 | 311 | 6.0 | -10.3 | 7.4 | 3 | J |
| 19 | 415 | 9.7 | 29 | J | 15.1 | 45 | 307 | 6.0 | -11.3 | 5.9 | 5 | J |
| 20 | 416 | 10.1 | 30 | J | 15.8 | 31 | 293 | 5.1 | -14.3 | 1.7 | 4 | J |
| 21 | 416 | 11.3 | 23 | J | 16.3 | 12 | 283 | 3.5 | -15.0 | -4.4 | 3 | J |
| 22 | | | | | 15.8 | 3 | 273 | 0.8 | -13.9 | -7.2 | 2 | J |
| 23 | | | | | 16.1 | 7 | 261 | -2.5 | -14.4 | -6.4 | 2 | J |
| 24 | | | | | 16.3 | 3 | 258 | -3.4 | -14.0 | -7.4 | 1 | J |

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44

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 17.0 | 52 | J | 15.7 | -1 | 254 | -4.3 | -12.7 | -7.8 | 3 | J |
| 2 | | | | | 14.0 | -14 | 270 | -0.0 | -10.0 | -9.2 | 3 | J |
| 3 | 392 | 16.2 | 58 | J | 13.5 | -15 | 273 | 0.7 | -9.6 | -8.6 | 4 | J |
| 4 | | | | | | | | | | | | |
| 5 | 390 | 17.3 | 26 | J | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | 11.7 | -5 | 244 | -4.8 | -9.4 | -2.9 | 4 | J |
| 9 | | | | | 12.6 | -12 | 232 | -7.4 | -8.9 | -4.1 | 2 | J |
| 10 | | | | | 13.0 | -21 | 229 | -7.8 | -8.2 | -5.8 | 2 | J |
| 11 | | | | | 12.8 | -36 | 231 | -6.1 | -6.5 | -8.0 | 4 | J |
| 12 | | | | | 11.8 | -33 | 205 | -8.8 | -3.2 | -6.8 | 2 | J |
| 13 | | | | | 10.7 | -32 | 199 | -8.3 | -2.0 | -5.9 | 2 | J |
| 14 | 398 | 16.2 | 98 | L | 10.3 | -25 | 210 | -7.8 | -3.6 | -4.9 | 2 | J |
| 15 | 379 | 13.4 | 153 | L | 9.2 | -45 | 199 | -5.7 | -0.6 | -6.3 | 3 | J |
| 16 | 376 | 11.1 | 134 | L | 10.3 | -31 | 238 | -4.0 | -5.0 | -6.1 | 5 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

FEB. 17, 1984

48

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 458 | 6.5 | 144 | L | | | | | | | | |

FEB. 18, 1984

49

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 429 | 7.3 | 120 | J | 9.5 | -41 | 157 | -6.3 | 4.1 | -5.0 | 3 | J |
| 8 | 423 | 5.1 | 75 | J | 8.0 | -12 | 157 | -6.7 | 3.1 | -0.9 | 3 | J |
| 9 | 415 | 5.5 | 61 | J | 8.1 | -9 | 158 | -6.6 | 2.8 | -0.6 | 3 | J |
| 10 | 422 | 6.4 | 58 | J | 8.4 | -22 | 167 | -7.0 | 2.1 | -2.6 | 3 | J |
| 11 | 407 | 8.0 | 56 | J | 8.4 | -6 | 152 | -7.2 | 3.9 | -0.3 | 2 | J |
| 12 | | | | | | | | | | | | |
| 13 | 413 | 7.5 | 47 | J | 7.6 | -19 | 157 | -6.4 | 3.1 | -1.9 | 2 | J |
| 14 | 424 | 7.9 | 69 | J | 7.3 | -23 | 149 | -5.0 | 3.5 | -1.8 | 3 | J |
| 15 | 465 | 9.2 | 108 | J | 5.8 | -53 | 177 | -3.3 | 1.2 | -4.2 | 2 | J |
| 16 | 457 | 8.6 | 91 | J | 5.9 | -26 | 166 | -4.6 | 1.8 | -1.9 | 2 | J |
| 17 | 451 | 8.5 | 93 | J | 6.2 | -21 | 165 | -5.4 | 2.1 | -1.5 | 1 | J |
| 18 | 457 | 8.6 | 96 | J | 5.4 | -1 | 169 | -4.7 | 0.9 | 0.3 | 2 | J |
| 19 | 447 | 8.4 | 103 | J | 5.5 | -25 | 198 | -4.7 | -0.4 | -2.7 | 1 | J |
| 20 | | | | | 6.1 | 7 | 163 | -4.7 | 1.0 | 1.2 | 3 | J |
| 21 | 468 | 8.9 | 105 | J | 5.4 | 54 | 126 | -1.4 | 0.0 | 3.8 | 4 | J |
| 22 | 453 | 8.1 | 94 | J | 5.1 | 64 | 104 | -0.5 | -0.5 | 4.3 | 3 | J |
| 23 | 429 | 7.8 | 107 | J | 5.1 | 29 | 168 | -3.6 | -0.4 | 2.1 | 3 | J |
| 24 | 435 | 8.4 | 159 | J | 5.0 | 18 | 153 | -3.7 | 0.9 | 2.2 | 2 | J |

FEB. 19, 1984

50

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 435 | 8.1 | 126 | J | 5.5 | -24 | 149 | -4.3 | 3.4 | -0.6 | 1 | J |
| 2 | 427 | 8.2 | 137 | J | 5.7 | -8 | 147 | -4.5 | 2.9 | 0.8 | 2 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 412 | 8.8 | 49 | J | 6.4 | -25 | 153 | -4.7 | 2.8 | -2.0 | 3 | J |
| 13 | 414 | 8.7 | 42 | J | 6.5 | -20 | 148 | -4.7 | 3.3 | -1.5 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | 413 | 7.6 | 49 | J | 7.8 | -35 | 171 | -6.2 | 2.0 | -4.0 | 1 | J |
| 16 | 420 | 9.3 | 53 | J | 7.0 | 29 | 119 | -2.0 | 2.7 | 3.1 | 5 | J |
| 17 | | | | | | | | | | | | |
| 18 | 426 | 11.2 | 47 | J | 7.3 | -39 | 106 | -1.5 | 6.4 | -2.0 | 2 | J |
| 19 | 420 | 12.5 | 45 | J | 7.0 | -19 | 113 | -1.9 | 4.8 | 0.4 | 5 | J |
| 20 | 408 | 13.7 | 51 | J | 6.7 | 40 | 131 | -3.0 | 1.3 | 5.0 | 3 | J |
| 21 | 410 | 13.9 | 57 | J | 6.4 | 54 | 126 | -2.1 | 0.0 | 5.6 | 2 | J |
| 22 | 401 | 13.5 | 66 | J | 6.0 | -1 | 134 | -3.1 | 2.7 | 1.6 | 4 | J |
| 23 | 395 | 12.6 | 83 | J | 5.2 | -39 | 160 | -3.7 | 2.8 | -1.9 | 1 | J |
| 24 | 383 | 12.7 | 107 | J | 5.2 | -11 | 154 | -4.2 | 2.2 | 0.3 | 2 | J |

FEB. 20, 1984

51

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 409 | 12.2 | 55 | J | 5.5 | 10 | 71 | 1.7 | 3.6 | 3.3 | 2 | J |
| 2 | 409 | 13.0 | 67 | J | 5.1 | 28 | 71 | 1.4 | 2.3 | 4.0 | 2 | J |
| 3 | 412 | 12.8 | 48 | J | 6.8 | 34 | 29 | 4.6 | 0.6 | 4.4 | 2 | J |
| 4 | 408 | 12.7 | 46 | J | 6.7 | 29 | 32 | 4.8 | 1.4 | 4.1 | 2 | J |
| 5 | 399 | 11.7 | 37 | J | 7.1 | 27 | 1 | 5.9 | -1.0 | 2.8 | 3 | J |
| 6 | 398 | 11.4 | 34 | J | 7.0 | 35 | 5 | 5.6 | -0.8 | 3.9 | 1 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 402 | 14.6 | 62 | J | 6.8 | 7 | 126 | -3.9 | 5.0 | 1.8 | 2 | J |
| 10 | 402 | 15.2 | 82 | J | 6.1 | 31 | 158 | -2.9 | 0.8 | 2.1 | 5 | J |
| 11 | 414 | 15.5 | 58 | J | 8.3 | 80 | 196 | -1.1 | -1.4 | 6.4 | 5 | J |
| 12 | 405 | 15.6 | 61 | J | 7.9 | 40 | 125 | -3.4 | 4.0 | 5.7 | 2 | J |
| 13 | 409 | 17.3 | 47 | J | 8.0 | 30 | 114 | -2.7 | 5.2 | 4.8 | 2 | J |
| 14 | 408 | 23.1 | 60 | J | 5.2 | 4 | 108 | -1.4 | 4.3 | 1.3 | 2 | J |
| 15 | 396 | 24.1 | 67 | J | 5.8 | 19 | 153 | -4.8 | 1.9 | 2.4 | 1 | J |
| 16 | 420 | 27.3 | 59 | J | 10.8 | -15 | 125 | -5.9 | 8.9 | -0.2 | 3 | J |
| 17 | 445 | 38.1 | 81 | J | 15.4 | 31 | 127 | -7.6 | 6.9 | 10.5 | 5 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 488 | 16.9 | 146 | L | | | | | | | | |

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52

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 482 | 14.9 | 151 | J | 11.4 | -1 | 294 | 4.4 | -8.4 | -5.4 | 3 | J |
| 2 | 475 | 13.2 | 137 | J | 10.9 | 7 | 306 | 6.2 | -8.1 | -3.2 | 2 | J |
| 3 | 473 | 11.7 | 146 | J | 10.6 | 12 | 317 | 7.4 | -7.1 | -1.4 | 2 | J |
| 4 | 480 | 11.1 | 114 | J | 10.4 | 9 | 314 | 6.9 | -7.1 | -1.6 | 3 | J |
| 5 | 491 | 11.3 | 105 | J | 10.3 | 11 | 308 | 5.8 | -7.6 | -1.1 | 4 | J |
| 6 | 471 | 10.2 | 110 | J | 10.3 | 0 | 323 | 8.0 | -5.7 | -2.0 | 2 | J |
| 7 | 466 | 10.2 | 82 | J | 9.9 | 3 | 327 | 8.0 | -5.1 | -0.9 | 3 | J |
| 8 | 463 | 9.6 | 63 | J | 9.9 | 2 | 342 | 8.7 | -2.8 | -0.3 | 4 | J |
| 9 | | | | | 9.2 | 4 | 313 | 2.4 | -2.6 | -0.3 | 7 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 432 | 8.8 | 68 | J | 9.4 | 26 | 352 | 8.0 | -2.6 | 3.2 | 3 | J |
| 19 | 434 | 9.0 | 87 | J | 9.7 | 17 | 12 | 8.3 | 0.5 | 3.1 | 4 | J |
| 20 | 434 | 8.0 | 93 | J | 9.1 | -15 | 353 | 6.9 | 0.1 | -2.0 | 5 | J |
| 21 | 515 | 7.4 | 52 | J | 9.8 | 20 | 277 | 1.0 | -8.9 | -1.6 | 4 | J |
| 22 | | | | | 9.4 | 7 | 309 | 5.6 | -6.4 | -2.7 | 3 | J |
| 23 | 455 | 6.1 | 55 | J | 9.6 | 20 | 287 | 2.4 | -8.1 | -1.7 | 4 | J |
| 24 | 418 | 6.5 | 40 | J | 9.1 | 20 | 335 | 7.3 | -4.5 | 0.6 | 3 | J |

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53

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 460 | 6.3 | 40 | J | 9.6 | 26 | 272 | 0.3 | -9.4 | -1.0 | 1 | J |
| 2 | 459 | 6.1 | 52 | J | 9.2 | 22 | 274 | 0.6 | -8.8 | -1.3 | 2 | J |
| 3 | 430 | 6.0 | 41 | J | 9.3 | 27 | 298 | 3.5 | -7.5 | 0.2 | 4 | J |
| 4 | | | | | 8.8 | 28 | 275 | 0.6 | -8.2 | 0.4 | 3 | J |
| 5 | | | | | 8.6 | 25 | 310 | 4.7 | -6.5 | 1.0 | 3 | J |
| 6 | | | | | | | | | | | | |
| 7 | 455 | 7.1 | 46 | J | 8.5 | 30 | 284 | 1.7 | -7.6 | 2.0 | 3 | J |
| 8 | 454 | 6.8 | 40 | J | 8.3 | 28 | 274 | 0.5 | -7.5 | 1.9 | 3 | J |
| 9 | 440 | 6.5 | 46 | J | 8.3 | 11 | 272 | 0.3 | -7.6 | -0.1 | 3 | J |
| 10 | 425 | 6.3 | 49 | J | 8.2 | 26 | 286 | 2.0 | -7.3 | 2.2 | 2 | J |
| 11 | 419 | 6.1 | 39 | J | 8.4 | 15 | 283 | 1.8 | -8.0 | 0.8 | 2 | J |
| 12 | 428 | 6.3 | 46 | J | 8.2 | -8 | 271 | 0.1 | -7.8 | -2.5 | 1 | J |
| 13 | 402 | 6.1 | 46 | J | 6.9 | 10 | 20 | 6.1 | 2.0 | 1.5 | 2 | J |
| 14 | 406 | 6.8 | 49 | J | 6.9 | -6 | 28 | 6.0 | 3.3 | -0.0 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 411 | 6.7 | 33 | J | 7.4 | 12 | 298 | 3.4 | -6.5 | -0.8 | 0 | J |
| 18 | 406 | 6.5 | 36 | J | 7.2 | 11 | 304 | 3.7 | -5.6 | -1.0 | 2 | J |
| 19 | 408 | 6.8 | 33 | J | 7.0 | 22 | 304 | 3.3 | -5.5 | -0.0 | 3 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 424 | 7.6 | 31 | J | 7.2 | 33 | 271 | 0.1 | -6.8 | 0.0 | 2 | J |
| 24 | | | | | 7.0 | 41 | 276 | 0.5 | -6.8 | 1.0 | 1 | J |

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54

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 381 | 8.9 | 30 | J | 6.9 | 6 | 320 | 5.0 | -3.9 | -1.6 | 2 | J |
| 2 | 414 | 10.1 | 29 | J | 6.5 | 34 | 266 | -0.3 | -5.8 | 0.4 | 3 | J |
| 3 | 396 | 8.7 | 58 | J | 6.5 | 24 | 316 | 3.7 | -4.3 | 0.3 | 3 | J |
| 4 | 389 | 8.6 | 57 | J | 6.9 | 18 | 311 | 4.1 | -5.2 | -0.2 | 2 | J |
| 5 | 392 | 9.0 | 61 | J | 6.7 | -18 | 328 | 4.0 | -1.7 | -2.4 | 4 | J |
| 6 | 402 | 10.4 | 54 | J | 7.8 | -42 | 326 | 4.6 | -1.3 | -5.7 | 2 | J |
| 7 | 402 | 11.2 | 52 | J | 8.5 | -23 | 311 | 4.9 | -4.5 | -4.6 | 3 | J |
| 8 | 406 | 11.6 | 47 | J | 7.2 | -2 | 307 | 4.0 | -5.1 | -1.5 | 3 | J |
| 9 | | | | | 5.8 | -20 | 316 | 3.9 | -3.2 | -2.7 | 2 | J |
| 10 | | | | | | | | | | | | |
| 11 | 394 | 19.3 | 40 | J | 10.5 | 43 | 137 | -5.5 | 3.8 | 7.7 | 2 | J |
| 12 | 399 | 18.3 | 46 | J | 10.7 | -5 | 138 | -6.4 | 5.8 | 0.3 | 6 | J |
| 13 | 411 | 12.6 | 44 | J | 11.3 | -42 | 134 | -5.6 | 7.1 | -6.0 | 3 | J |
| 14 | 418 | 10.3 | 90 | J | 11.2 | 2 | 125 | -5.7 | 7.9 | 2.1 | 5 | J |
| 15 | 452 | 7.7 | 131 | J | 11.7 | -17 | 145 | -8.4 | 6.5 | -1.5 | 5 | J |
| 16 | 466 | 8.0 | 107 | J | 11.8 | 18 | 121 | -5.5 | 7.7 | 6.0 | 3 | J |
| 17 | 526 | 7.5 | 151 | J | 11.6 | 17 | 93 | -0.3 | 4.8 | 3.6 | 10 | J |
| 18 | 527 | 7.0 | 159 | J | 12.0 | 26 | 100 | -1.5 | 6.1 | 7.2 | 7 | J |
| 19 | 520 | 6.8 | 152 | J | 11.8 | -6 | 139 | -6.3 | 5.3 | 1.6 | 8 | J |
| 20 | 514 | 7.2 | 157 | J | 11.0 | 0 | 149 | -8.6 | 4.5 | 2.5 | 5 | J |
| 21 | 507 | 6.1 | 150 | J | 9.8 | -6 | 171 | -9.3 | 1.8 | -0.1 | 3 | J |
| 22 | | | | | 10.8 | -15 | 153 | -9.2 | 5.4 | 0.2 | 1 | J |
| 23 | | | | | 11.2 | -10 | 141 | -8.5 | 6.8 | 2.1 | 1 | J |
| 24 | | | | | 11.9 | -7 | 130 | -7.5 | 8.3 | 3.7 | 2 | J |

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55

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 511 | 6.0 | 96 | J | 11.3 | -7 | 138 | -8.0 | 6.8 | 2.7 | 3 | J |
| 2 | 511 | 5.5 | 94 | J | 11.1 | -1 | 140 | -8.3 | 6.1 | 3.4 | 2 | J |
| 3 | 506 | 6.1 | 120 | J | 10.2 | -12 | 157 | -9.0 | 4.4 | -0.0 | 2 | J |
| 4 | 521 | 5.4 | 151 | J | 10.0 | 1 | 159 | -9.1 | 3.1 | 1.7 | 2 | J |
| 5 | 538 | 5.2 | 157 | J | 9.9 | 4 | 154 | -8.5 | 3.6 | 2.2 | 3 | J |
| 6 | 616 | 3.6 | 163 | J | 10.0 | 16 | 140 | -7.1 | 4.7 | 4.5 | 3 | J |
| 7 | 565 | 4.4 | 97 | J | 9.8 | 18 | 140 | -6.7 | 4.6 | 4.3 | 4 | J |
| 8 | 570 | 4.1 | 109 | J | 9.9 | 1 | 154 | -7.6 | 3.6 | 1.0 | 5 | J |
| 9 | 569 | 3.9 | 87 | J | 9.7 | 20 | 138 | -6.5 | 5.1 | 4.3 | 3 | J |
| 10 | 651 | 4.0 | 257 | J | 8.7 | 33 | 109 | -2.1 | 5.2 | 5.2 | 4 | J |
| 11 | 603 | 3.6 | 237 | J | 8.9 | -14 | 157 | -7.5 | 3.5 | -1.4 | 3 | J |
| 12 | 601 | 4.5 | 371 | J | 8.3 | 22 | 92 | -0.2 | 5.5 | 3.5 | 5 | J |
| 13 | | | | | | | | | | | | |
| 14 | 588 | 4.8 | 436 | J | 8.2 | 50 | 63 | 2.1 | 2.8 | 6.4 | 4 | J |
| 15 | 578 | 3.5 | 250 | J | 9.0 | 45 | 105 | -1.2 | 3.1 | 5.5 | 6 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 7.3 | -14 | 157 | -6.3 | 3.2 | -0.5 | 2 | J |
| 19 | 537 | 5.1 | 489 | J | 6.9 | -20 | 144 | -4.8 | 4.1 | -0.4 | 3 | J |
| 20 | | | | | 6.2 | 2 | 150 | -5.0 | 2.4 | 1.6 | 2 | J |
| 21 | | | | | 6.3 | 4 | 143 | -4.9 | 2.9 | 2.2 | 2 | J |
| 22 | | | | | 6.5 | -32 | 99 | -0.8 | 5.7 | 0.0 | 3 | J |
| 23 | | | | | | | | | | | | |
| 24 | 503 | 4.5 | 197 | J | 5.2 | 5 | 115 | -1.3 | 2.3 | 1.8 | 4 | J |

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02/25/84 – 03/06/84

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HR    VEL  DEN TEMP/ PLS   AV B GSE GSE  BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS   AV B GSE GSE  BXGSM BYGSM BZGSM SG IMF
               1000  SC    MAGN LAT LON                       SC              1000  SC    MAGN LAT LON                       SC

                           FEB. 25, 1984                      56                         FEB. 26, 1984                      57

 1    500  4.9 219  L     5.7  -6 147  -3.5   2.2   0.8  4  J        383  6.3  56  J     9.0  29 188  -7.6  -3.2   3.0  2  J
 2    503  4.5 130  J     4.9  17  96  -0.4   2.5   2.8  3  J                            8.7  19 182  -8.2  -1.7   2.3  0  J
 3    454  4.3 131  J     4.8  18 137  -3.1   1.9   2.6  1  J
 4    454  4.6 135  J     5.4  16 145  -4.2   2.0   2.6  1  J
 5    450  5.0 148  J     5.2  19 144  -3.9   2.0   2.6  1  J
 6    447  4.0  96  J     6.3   1 133  -4.2   4.2   1.6  2  J
 7    433  5.4 132  J     6.6   7 138  -4.9   4.0   2.0  0  J        390  8.9  78  J     8.8 -28 155  -7.0   4.3  -3.0  1  J
 8                                                                                       9.8  -8 168  -9.0   2.2  -0.8  3  J
 9    451  3.6  65  J     7.4 -45 155  -4.6   3.2  -4.5  1  J
10    444  3.5  66  J     7.1   6 152  -5.3   2.6   1.1  4  J
11    419  4.6  56  J     7.2 -11 174  -6.8   0.9  -1.2  2  J
12    432  4.3  85  J     8.1 -14 175  -7.6   1.0  -1.8  2  J
13    413  5.9  37  J     7.3  11 146  -5.5   3.4   2.0  3  J
14    420  5.1  47  J     7.3 -11 140  -5.2   4.5  -0.3  3  J
15                        8.4   6 126  -4.9   6.3   2.6  1  J
16
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18
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22    372  7.6  63  J     8.6  24 178  -6.8  -1.4   2.7  4  J
23    382  6.6  65  J     8.7  16 176  -7.4  -0.7   2.1  4  J
24    382  5.8  42  J     8.7  21 189  -7.9  -2.7   1.9  1  J

                           MAR.  1, 1984                      61                         MAR.  2, 1984                      62

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 6
 7                                                                   631  5.1 427  J    10.5 -28 308   4.6  -4.4  -5.5  6  J
 8                                                                   640  4.3 369  J    10.6   6 302   4.3  -6.8  -0.9  7  J
 9                                                                   648  4.3 377  J    11.2   1 301   5.3  -8.6  -1.8  5  J
10
11    449 10.8 124  L
12                                                                   663  2.6 171  J     8.6 -12 337   6.8  -2.5  -2.1  4  J
13                                                                   665  2.6 159  J
14                                                                   661  2.4 143  J
15                                                                   637  2.1 103  J
16    504  8.1 151  J    12.0  15 314   7.6  -8.4   0.3  4  J        660  2.2 149  J     7.7  31 316   3.8  -4.5   1.9  5  J
17    494  8.2 180  J    12.7  23 315   6.8  -7.8   1.3  7  J        683  2.3 157  J     7.7  33 289   1.9  -6.7   1.5  3  J
18    506  8.9 180  J    13.5  62 330   4.8  -6.8   8.4  7  J        666  2.1 160  J     7.6  32 305   3.4  -6.0   1.4  3  J
19    547  8.8 197  J    12.8  85 349   1.0  -5.6  10.5  5  J        705  3.9 285  J     7.8  26 300   2.5  -4.9   0.2  6  J
20    528 11.9 500  J    10.1  39 330   6.6  -6.4   3.5  3  J        724  4.0 311  J     9.6   7 294   2.3  -4.7  -1.9  8  J
21    564  5.3 155  J    12.6 -40 305   5.3  -2.3 -10.5  4  J        749  4.5 453  J     9.4  19 281   1.1  -6.0  -1.3  7  J
22    587  3.1 234  J    12.9 -38 309   5.9  -2.1 -10.1  5  J        761 10.9 208  J     7.7  71  76   0.3  -1.1   4.0  7  J
23    625  3.8 304  J    12.0 -37 307   5.6  -2.2  -9.9  3  J        707  5.9 401  J     6.9 -42   4   4.7   2.7  -3.4  2  J
24    638  3.6 335  J    12.9 -20 307   6.1  -4.7  -7.6  7  J        727  6.2 320  J     5.7 -52 301   1.5   0.0  -4.4  3  J

                           MAR.  3, 1984                      63                         MAR.  4, 1984                      64

 1    769  1.9 125  J     8.7  60 220  -3.3  -6.3   4.7  2  J        499  3.3  40  J     4.9 -31 326   3.3  -0.6  -3.3  1  J
 2    736  2.4 136  J     7.7  42 225  -3.8  -5.7   2.1  3  J        530  3.6  50  J     4.5 -35 336   3.1   0.1  -2.8  2  J
 3    700  6.0  80  J     6.1 -69 310   1.1   1.1  -4.6  4  J        520  3.5  63  J     3.7  -7 299   1.4  -2.1  -1.6  2  J
 4    689  5.8  81  J     4.3  21 238  -1.9  -3.3  -0.1  2  J        514  4.1  50  J     4.3 -32 307   2.0  -1.4  -3.0  2  J
 5
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11    643  3.6 110  J     4.4 -29 261  -0.5  -2.6  -2.2  3  J
12    621  2.8  94  J     4.0 -14 284   0.7  -2.7  -1.3  3  J        474  5.4  63  J     5.0  22 300   2.2  -4.1   1.0  1  J
13    588  3.4 101  J     4.4 -15 341   3.7  -1.0  -1.3  2  J        456  3.5  44  J     4.7  -1 356   4.5  -0.3  -0.1  1  J
14    568  3.1  87  J     4.4  -3 321   3.1  -2.4  -0.8  2  J        439  4.2  84  L     4.9   4 359   4.8  -0.2   0.3  1  J
15    564  3.1  72  J     4.6 -13 327   3.7  -2.0  -1.6  1  J
16    565  3.0  66  J     4.6  -6 329   3.7  -1.9  -1.1  2  J        443  7.0  70  J     6.0  -9 341   5.4  -1.5  -1.5  2  J
17    554  3.3  57  J     4.7  12 330   3.7  -2.3   0.1  1  J        436  6.8  73  J     6.0 -15 350   5.7  -0.4  -1.8  1  J
18    554  3.1  54  J     4.7 -27 326   3.1  -1.1  -2.6  2  J        456  6.8  51  J     5.4  64 275   0.2  -3.3   2.7  3  J
19    540  3.2  46  J     4.6 -18 304   2.4  -2.6  -2.9  1  J        456  5.9  47  J     5.8  56 246  -1.3  -4.9   2.9  1  J
20    533  3.7  60  J     4.6 -20 317   3.1  -1.7  -2.8  1  J        463  5.5  45  J     6.7  58 254  -0.9  -5.5   3.1  2  J
21    511  3.4  84  L     4.5 -17 346   4.2  -0.2  -1.7  1  J        448  1.7  41  J     7.0  56 267  -0.2  -6.3   2.8  1  J
22    509  3.3  52  J     4.6  -7 334   3.8  -1.3  -1.5  2  J        428  1.6 139  L     6.7  54 297   1.8  -5.8   2.5  1  J
23    508  3.1  54  J     4.1 -15 328   3.0  -1.0  -1.9  2  J        455  1.4  76  J     7.2  45 306   2.9  -6.1   1.8  2  J
24    520  3.0  52  J     4.1 -15 322   2.8  -1.3  -2.0  2  J                            7.3  46 305   2.8  -6.2   2.0  2  J

                           MAR.  5, 1984                      65                         MAR.  6, 1984                      66

 1    494  1.5  85  L     7.5  19 332   6.1  -4.0   0.2  2  J                            9.0  39  17   6.2  -1.3   5.4  4  J
 2    487  1.4 106  L     7.3  10 339   6.6  -2.8  -0.3  1  J
 3    471  1.1  78  L     7.1  16 345   6.5  -2.5   0.8  1  J        402 20.3 128  L     9.2  18 278   0.7  -5.4  -1.1  7  J
 4    509  0.8  80  J     6.9  27 336   5.5  -3.6   1.6  1  J
 5    401  2.3 103  L     6.0  36 292   1.7  -5.3   1.3  2  J
 6    411  3.3  75  L     5.6  38 273   0.2  -5.2   1.6  1  J
 7    390  2.3  25  J     5.6  36 323   3.4  -3.4   2.2  2  J
 8    407  4.6  29  J     6.4   7 293   2.2  -5.1  -0.7  3  J
 9    415  4.0  29  J     6.4  -3 308   3.7  -4.5  -1.4  2  J
10    394  3.6  41  J     7.0  36 354   5.3  -1.3   3.7  2  J
11    372  4.6  46  L     6.7  40 349   5.0  -1.8   4.0  0  J
12    390  5.2  29  J     6.6  24 321   3.9  -3.5   1.6  4  J
13    383  5.8  23  J     7.2  -6 319   5.3  -4.4  -1.7  1  J
14    362  5.4  21  J     7.9   8 328   6.5  -4.2   0.1  2  J
15    347  5.7  22  J     8.0  12 355   7.5  -1.1   1.4  2  J        584  4.2 392  L    11.9  -9 303   5.5  -7.7  -3.9  6  J
16    357  4.9  22  J     7.8  31   1   6.6  -1.2   3.8  1  J        594  3.7 425  L    11.6  18 310   6.4  -8.3   0.6  5  J
17    364  4.9  17  J     7.7  38   6   6.0  -1.2   4.6  1  J        589  4.8 396  L    11.2  -1 302   4.9  -7.2  -3.1  6  J
18    380  6.8  22  J     7.5  23  42   4.7   2.7   4.2  3  J        588  5.8 397  L    10.8 -12 303   4.3  -5.3  -4.3  7  J
19    394  9.4  36  J     7.7  48  44   3.1   0.4   5.7  4  J
20                        9.0  59 309   2.6  -6.2   4.3  4  J
21    401 13.1  61  J     9.0  76 324   1.4  -4.6   5.4  6  J
22                        9.1  39 308   4.3  -7.6   1.7  2  J                            8.4   3 299   3.2  -5.0  -2.9  5  J
23
24                        8.3  65 322   2.5  -5.4   4.5  4  J
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MAR. 7, 1984 67

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 551 | 7.6 | 235 | L | 9.4 | 13 | 274 | 0.6 | -7.8 | -2.9 | 4 | J |
| 2 | 538 | 7.9 | 263 | L | 8.7 | 10 | 296 | 2.7 | -5.3 | -2.0 | 6 | J |
| 3 | 513 | 7.1 | 244 | L | 9.0 | 0 | 326 | 6.5 | -3.8 | -2.2 | 4 | J |
| 4 | 543 | 7.8 | 274 | L | 7.6 | -60 | 310 | 1.7 | 0.3 | -5.1 | 5 | J |
| 5 | 538 | 7.4 | 251 | L | 8.0 | -55 | 5 | 2.6 | 1.7 | -3.3 | 7 | J |
| 6 | 532 | 7.0 | 256 | L | 7.6 | 1 | 42 | 4.9 | 4.1 | 1.7 | 4 | J |
| 7 | 512 | 6.3 | 213 | L | 7.8 | -12 | 23 | 6.9 | 3.3 | -0.6 | 1 | J |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  | 8.2 | 2 | 308 | 4.6 | -5.8 | -0.9 | 4 | J |
| 12 | 528 | 5.2 | 178 | L | 8.6 | 11 | 301 | 4.2 | -7.2 | 0.1 | 2 | J |
| 13 | 511 | 5.6 | 143 | L | 8.5 | 21 | 334 | 7.1 | -4.1 | 2.2 | 0 | J |
| 14 | 545 | 6.3 | 230 | L | 6.8 | 23 | 338 | 5.0 | -2.5 | 1.7 | 4 | J |
| 15 | 582 | 6.2 | 322 | L | 5.7 | 1 | 286 | 1.3 | -4.3 | -1.2 | 3 | J |
| 16 | 584 | 5.9 | 293 | L | 5.6 | 17 | 290 | 1.5 | -4.3 | -0.1 | 3 | J |
| 17 | 543 | 6.2 | 195 | L | 6.9 | 23 | 304 | 3.5 | -5.8 | 0.5 | 1 | J |
| 18 |  |  |  |  | 6.7 | 10 | 314 | 4.4 | -4.7 | -0.9 | 2 | J |
| 19 |  |  |  |  | 6.6 | -22 | 340 | 5.7 | -0.7 | -3.1 | 1 | J |
| 20 | 512 | 7.5 | 150 | L | 6.6 | -44 | 357 | 4.5 | 2.0 | -3.8 | 2 | J |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  | 6.1 | -38 | 258 | -0.9 | -1.6 | -4.9 | 3 | J |
| 23 |  |  |  |  | 6.2 | -11 | 24 | 4.8 | 2.4 | 0.4 | 3 | J |
| 24 |  |  |  |  | 6.4 | -15 | 30 | 5.3 | 3.4 | 0.4 | 1 | J |

MAR. 9, 1984 69

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  | 4.1 | -11 | 315 | 2.4 | -1.7 | -1.9 | 2 | J |
| 2 |  |  |  |  | 3.7 | -5 | 348 | 2.6 | -0.3 | -0.5 | 3 | J |
| 3 |  |  |  |  | 4.7 | 8 | 344 | 3.4 | -1.1 | -0.1 | 3 | J |
| 4 | 516 | 5.2 | 117 | J | 4.5 | -21 | 350 | 4.0 | 0.1 | -1.7 | 1 | J |
| 5 | 514 | 5.2 | 88 | J | 4.3 | -21 | 321 | 2.8 | -1.5 | -2.2 | 2 | J |
| 6 | 513 | 4.9 | 55 | J | 5.2 | -1 | 344 | 4.8 | -1.3 | -0.6 | 2 | J |
| 7 | 502 | 6.2 | 70 | J | 5.7 | -5 | 18 | 5.2 | 1.8 | 0.1 | 2 | J |
| 8 | 502 | 5.2 | 85 | J | 5.3 | 29 | 36 | 3.3 | 1.7 | 2.8 | 2 | J |
| 9 | 490 | 5.4 | 98 | J | 5.4 | 24 | 21 | 4.3 | 1.1 | 2.4 | 1 | J |
| 10 | 491 | 6.0 | 107 | J | 4.5 | 40 | 31 | 2.7 | 1.0 | 2.9 | 2 | J |
| 11 | 470 | 5.9 | 85 | J | 5.7 | 23 | 10 | 4.9 | 0.4 | 2.2 | 2 | J |
| 12 | 470 | 6.0 | 115 | J | 5.8 | 20 | 10 | 5.1 | 0.5 | 2.0 | 2 | J |
| 13 | 476 | 6.0 | 111 | J | 4.5 | 73 | 228 | -0.2 | -0.5 | 1.1 | 4 | J |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 429 | 10.4 | 154 | J | 4.2 | 8 | 329 | 3.5 | -2.1 | -0.6 | 1 | J |
| 22 | 409 | 10.5 | 53 | J | 6.5 | 21 | 269 | -0.1 | -5.6 | -1.3 | 3 | J |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 400 | 10.6 | 61 | J |  |  |  |  |  |  |  |  |

MAR. 15, 1984 75

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 5.3 | 46 | J | 8.8 | -3 | 150 | -7.1 | 3.6 | 1.9 | 3 | J |
| 2 | 404 | 4.8 | 42 | J | 8.6 | 8 | 137 | -5.9 | 4.1 | 3.9 | 2 | J |
| 3 | 412 | 4.9 | 46 | J | 8.6 | 2 | 126 | -4.8 | 5.6 | 3.6 | 2 | J |
| 4 | 423 | 5.3 | 52 | J | 8.6 | 6 | 116 | -3.6 | 6.2 | 4.2 | 2 | J |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 378 | 5.4 | 29 | J | 8.5 | -12 | 174 | -8.3 | 1.5 | -1.3 | 1 | J |
| 7 | 402 | 5.3 | 54 | J | 8.5 | -12 | 154 | -5.7 | 3.1 | -0.4 | 5 | J |
| 8 | 416 | 5.3 | 50 | J | 9.0 | 13 | 113 | -3.3 | 7.0 | 4.0 | 2 | J |
| 9 | 416 | 6.4 | 64 | J | 8.4 | 10 | 117 | -3.4 | 6.2 | 2.9 | 3 | J |
| 10 | 371 | 6.4 | 34 | J | 8.9 | 1 | 173 | -8.4 | 1.0 | 0.4 | 2 | J |
| 11 | 384 | 6.3 | 52 | J | 8.2 | 20 | 121 | -3.2 | 4.8 | 3.4 | 5 | J |
| 12 | 421 | 8.4 | 117 | J | 8.1 | 19 | 98 | -0.9 | 5.7 | 3.5 | 4 | J |
| 13 | 420 | 7.7 | 92 | J | 8.5 | 25 | 91 | -0.1 | 6.5 | 5.1 | 2 | J |
| 14 | 425 | 7.6 | 110 | J | 8.8 | 1 | 93 | -0.4 | 7.5 | 2.1 | 4 | J |
| 15 | 411 | 8.2 | 114 | J | 9.3 | -24 | 120 | -3.4 | 6.5 | -1.2 | 6 | J |
| 16 | 408 | 8.0 | 93 | J | 9.7 | 23 | 109 | -2.8 | 6.4 | 6.1 | 2 | J |
| 17 | 409 | 7.7 | 84 | J | 9.8 | 28 | 108 | -2.6 | 5.6 | 7.1 | 3 | J |
| 18 | 402 | 7.5 | 88 | J | 9.7 | 38 | 120 | -3.7 | 3.3 | 7.9 | 3 | J |
| 19 | 402 | 7.0 | 76 | J | 9.6 | 31 | 116 | -3.5 | 4.1 | 7.7 | 2 | J |
| 20 | 408 | 7.3 | 70 | J | 9.6 | 26 | 110 | -2.9 | 4.8 | 7.7 | 1 | J |
| 21 | 415 | 8.5 | 102 | J | 8.8 | -14 | 74 | 1.6 | 5.3 | 1.8 | 7 | J |
| 22 | 408 | 9.6 | 85 | J | 9.7 | -66 | 120 | -1.4 | 5.6 | -3.9 | 7 | J |
| 23 | 398 | 11.6 | 79 | J | 12.2 | -13 | 108 | -3.3 | 9.8 | 3.8 | 5 | J |
| 24 | 397 | 11.1 | 69 | J | 11.1 | 17 | 104 | -2.5 | 6.5 | 8.4 | 2 | J |

MAR. 17, 1984 77

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 453 | 17.3 | 160 | J | 12.5 | 23 | 112 | -4.0 | 5.8 | 9.4 | 4 | J |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  | 9.2 | 2 | 134 | -6.4 | 5.9 | 3.0 | 0 | J |
| 6 | 470 | 16.4 | 178 | J | 9.6 | -1 | 136 | -6.5 | 5.9 | 2.1 | 3 | J |
| 7 | 467 | 17.6 | 198 | J | 10.3 | 9 | 148 | -8.3 | 4.4 | 3.1 | 2 | J |
| 8 | 466 | 16.4 | 164 | J | 9.5 | -15 | 186 | -7.5 | -0.2 | -2.2 | 5 | J |
| 9 | 506 | 16.0 | 184 | J | 8.8 | 41 | 342 | 3.9 | -2.1 | 3.1 | 7 | J |
| 10 | 502 | 13.8 | 143 | J | 10.4 | 56 | 330 | 4.1 | -3.9 | 6.4 | 6 | J |
| 11 | 470 | 14.0 | 200 | J | 7.7 | -45 | 177 | -2.1 | 0.6 | -2.1 | 7 | J |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 449 | 12.2 | 116 | J |  |  |  |  |  |  |  |  |
| 14 | 455 | 11.7 | 83 | J | 10.1 | -21 | 144 | -7.2 | 5.9 | -2.0 | 4 | J |
| 15 | 463 | 10.5 | 78 | J | 11.0 | -17 | 134 | -6.8 | 7.7 | -0.8 | 4 | J |
| 16 | 466 | 8.3 | 90 | J | 11.6 | -41 | 162 | -8.3 | 5.1 | -6.2 | 1 | J |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 477 | 8.9 | 132 | J | 10.5 | -21 | 152 | -8.5 | 5.7 | -1.4 | 2 | J |
| 19 | 477 | 9.3 | 120 | J | 10.3 | -9 | 152 | -8.7 | 4.8 | 0.8 | 2 | J |
| 20 |  |  |  |  | 10.2 | -6 | 155 | -9.0 | 4.1 | 1.3 | 2 | J |
| 21 |  |  |  |  | 10.6 | -18 | 171 | -7.0 | 2.2 | -1.3 | 8 | J |
| 22 | 467 | 9.0 | 35 | J | 10.2 | -8 | 142 | -7.9 | 5.9 | 2.3 | 2 | J |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

MAR. 8, 1984 68

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  | 7.0 | 7 | 284 | 1.6 | -6.0 | -2.5 | 2 | J |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  | 6.3 | 23 | 359 | 3.9 | -0.7 | 1.5 | 5 | J |
| 6 | 542 | 5.1 | 126 | L | 6.2 | 11 | 311 | 3.1 | -3.6 | -0.4 | 4 | J |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 547 | 5.9 | 123 | L | 5.5 | -10 | 42 | 3.4 | 3.1 | -0.1 | 3 | J |
| 10 | 533 | 5.5 | 117 | L | 5.7 | 4 | 339 | 4.7 | -1.8 | -0.0 | 3 | J |
| 11 | 551 | 5.7 | 120 | L | 5.7 | -13 | 322 | 3.5 | -2.4 | -1.5 | 3 | J |
| 12 | 538 | 5.2 | 129 | L | 6.3 | -12 | 315 | 3.2 | -2.9 | -1.6 | 4 | J |
| 13 | 541 | 5.2 | 124 | L | 6.7 | -11 | 329 | 4.7 | -2.5 | -1.7 | 4 | J |
| 14 | 567 | 6.0 | 144 | L | 7.0 | 15 | 285 | 1.6 | -6.4 | 0.1 | 2 | J |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  | 6.1 | -37 | 179 | -4.7 | 2.0 | -2.9 | 1 | J |
| 23 |  |  |  |  | 6.0 | -11 | 202 | -4.6 | -1.0 | -1.9 | 3 | J |
| 24 |  |  |  |  | 5.3 | -32 | 253 | -1.2 | -1.7 | -4.2 | 3 | J |

MAR. 14, 1984 74

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  | 9.0 | -20 | 189 | -7.5 | -0.4 | -3.0 | 4 | J |
| 9 |  |  |  |  | 9.0 | -15 | 162 | -8.1 | 3.1 | -1.6 | 2 | J |
| 10 | 420 | 5.5 | 111 | L | 9.2 | -7 | 164 | -8.5 | 2.6 | -0.5 | 2 | J |
| 11 | 435 | 5.5 | 125 | L | 8.6 | -1 | 144 | -6.5 | 4.6 | 0.8 | 3 | J |
| 12 | 451 | 6.1 | 135 | L | 8.9 | 20 | 116 | -3.3 | 6.1 | 4.1 | 3 | J |
| 13 | 429 | 5.7 | 128 | L | 8.5 | 0 | 138 | -5.6 | 4.9 | 1.1 | 4 | J |
| 14 | 450 | 6.6 | 145 | L | 8.2 | 24 | 141 | -3.4 | 2.2 | 2.6 | 7 | J |
| 15 | 411 | 5.8 | 124 | L | 8.8 | 24 | 145 | -6.2 | 3.2 | 4.5 | 3 | J |
| 16 | 443 | 5.3 | 108 | J | 9.1 | -9 | 120 | -4.0 | 7.0 | 1.1 | 4 | J |
| 17 | 436 | 5.2 | 102 | J | 8.9 | 0 | 125 | -4.7 | 6.2 | 2.6 | 3 | J |
| 18 | 454 | 5.3 | 124 | J | 8.8 | 0 | 114 | -3.1 | 6.3 | 2.9 | 4 | J |
| 19 | 436 | 4.9 | 95 | J | 9.1 | 18 | 130 | -4.6 | 3.8 | 4.7 | 5 | J |
| 20 | 468 | 5.3 | 99 | J | 8.9 | 3 | 100 | -1.3 | 6.3 | 4.2 | 4 | J |
| 21 | 430 | 4.6 | 56 | J | 8.9 | 12 | 138 | -5.7 | 3.4 | 4.1 | 4 | J |
| 22 | 403 | 4.5 | 39 | J | 8.9 | 14 | 155 | -7.6 | 1.8 | 3.7 | 2 | J |
| 23 | 405 | 4.5 | 41 | J | 8.8 | 3 | 146 | -7.0 | 3.6 | 3.1 | 2 | J |
| 24 | 399 | 4.7 | 42 | J | 8.7 | -8 | 155 | -7.6 | 3.6 | 1.0 | 2 | J |

MAR. 16, 1984 76

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 396 | 8.8 | 43 | J | 11.2 | 27 | 114 | -4.0 | 4.6 | 9.0 | 3 | J |
| 2 | 386 | 9.8 | 48 | J | 11.5 | 28 | 125 | -5.7 | 4.1 | 8.8 | 2 | J |
| 3 | 387 | 10.0 | 49 | J | 11.5 | 31 | 121 | -4.9 | 4.2 | 9.0 | 3 | J |
| 4 | 399 | 10.3 | 66 | J | 11.0 | -9 | 123 | -4.5 | 6.8 | 2.0 | 7 | J |
| 5 | 415 | 10.6 | 82 | J | 10.1 | -76 | 161 | -2.2 | 4.5 | -8.1 | 3 | J |
| 6 | 370 | 9.9 | 54 | J | 11.0 | -3 | 150 | -9.1 | 5.1 | 1.4 | 3 | J |
| 7 | 378 | 10.2 | 54 | J | 11.2 | -34 | 151 | -8.0 | 6.1 | -4.4 | 2 | J |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 396 | 13.0 | 80 | J | 11.9 | -4 | 114 | -4.4 | 9.8 | 1.3 | 5 | J |
| 12 | 407 | 13.0 | 97 | J | 11.5 | 16 | 101 | -2.0 | 9.4 | 5.1 | 4 | J |
| 13 | 402 | 14.6 | 106 | J | 10.7 | -27 | 114 | -2.7 | 6.7 | -1.9 | 8 | J |
| 14 | 395 | 15.5 | 103 | J | 10.8 | -54 | 253 | -1.8 | -3.5 | -9.4 | 3 | J |
| 15 | 405 | 13.7 | 87 | J | 10.9 | -29 | 296 | 3.3 | -5.3 | -6.0 | 7 | J |
| 16 | 386 | 14.3 | 69 | J | 10.4 | 20 | 113 | -3.8 | 7.2 | 6.3 | 2 | J |
| 17 | 364 | 13.3 | 85 | J | 11.6 | -13 | 152 | -9.7 | 5.7 | -0.4 | 2 | J |
| 18 | 399 | 15.7 | 138 | J | 8.3 | -67 | 195 | -2.2 | 1.7 | -5.0 | 6 | J |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 406 | 18.2 | 141 | J | 13.2 | 9 | 115 | -5.3 | 8.7 | 7.5 | 4 | J |
| 21 | 401 | 18.1 | 134 | J | 13.5 | 35 | 111 | -3.7 | 4.2 | 11.3 | 5 | J |
| 22 | 408 | 15.1 | 138 | J | 11.0 | 9 | 130 | -5.5 | 4.7 | 4.8 | 7 | J |
| 23 | 416 | 12.6 | 84 | J | 12.3 | 23 | 115 | -4.5 | 5.4 | 9.2 | 4 | J |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

MAR. 18, 1984 78

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  | 7.6 | 18 | 126 | -3.4 | 2.8 | 4.1 | 5 | J |
| 2 | 486 | 7.4 | 82 | J | 9.9 | -13 | 155 | -8.7 | 4.6 | 0.3 | 1 | J |
| 3 |  |  |  |  | 8.3 | -9 | 150 | -7.0 | 4.1 | 0.9 | 1 | J |
| 4 |  |  |  |  | 7.6 | 17 | 138 | -5.0 | 3.0 | 3.9 | 3 | J |
| 5 |  |  |  |  | 9.1 | -8 | 138 | -5.8 | 5.2 | 1.2 | 5 | J |
| 6 | 476 | 9.1 | 186 | J | 8.2 | 14 | 122 | -2.9 | 3.9 | 3.0 | 6 | J |
| 7 | 513 | 9.1 | 84 | J | 7.9 | 26 | 119 | -3.3 | 4.6 | 5.0 | 3 | J |
| 8 | 499 | 7.5 | 50 | J | 9.5 | 0 | 144 | -7.4 | 5.2 | 1.5 | 2 | J |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 494 | 6.7 | 54 | J | 10.0 | -27 | 165 | -7.2 | 2.7 | -3.3 | 5 | J |
| 11 | 501 | 6.3 | 49 | J | 9.1 | -21 | 167 | -7.7 | 2.4 | -2.6 | 3 | J |
| 12 | 505 | 6.1 | 55 | J | 7.9 | -5 | 151 | -6.5 | 3.7 | 0.1 | 2 | J |
| 13 | 505 | 6.0 | 48 | J | 8.0 | 4 | 146 | -6.5 | 4.1 | 1.5 | 2 | J |
| 14 | 503 | 6.0 | 45 | J | 7.8 | -12 | 169 | -7.1 | 1.7 | -1.1 | 2 | J |
| 15 | 507 | 6.4 | 47 | J | 7.8 | -2 | 156 | -6.9 | 3.0 | 0.6 | 2 | J |
| 16 | 509 | 6.2 | 49 | J | 7.2 | 1 | 160 | -6.2 | 2.1 | 0.9 | 3 | J |
| 17 | 511 | 6.6 | 60 | J | 7.2 | -9 | 180 | -5.6 | 0.3 | -0.8 | 4 | J |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 492 | 6.1 | 57 | J | 7.1 | 2 | 194 | -6.9 | -1.6 | -0.7 | 0 | J |
| 21 | 498 | 5.0 | 66 | J | 6.3 | 4 | 181 | -6.0 | -0.3 | 0.3 | 2 | J |
| 22 | 483 | 5.1 | 75 | J | 5.7 | 5 | 178 | -5.5 | -0.1 | 0.5 | 1 | J |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

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03/19/84 – 03/29/84

MAR. 19, 1984

79

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 6.7 | 15 | 192 | -6.1 | -2.0 | 0.7 | 2 | J |
| 2 | | | | | 6.6 | 5 | 192 | -6.1 | -1.4 | -0.2 | 2 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 7.3 | -9 | 205 | -4.7 | -1.6 | -1.7 | 5 | J |
| 5 | | | | | 8.2 | -18 | 165 | -7.4 | 2.8 | -1.5 | 1 | J |
| 6 | | | | | 8.6 | -27 | 167 | -7.0 | 2.8 | -2.8 | 3 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 503 | 7.9 | 153 | J | 6.3 | -5 | 139 | -4.7 | 4.1 | 0.5 | 1 | J |
| 10 | 497 | 7.7 | 138 | J | 6.7 | -16 | 141 | -4.7 | 4.1 | -0.9 | 2 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 533 | 5.8 | 77 | J | 6.5 | 21 | 86 | 0.3 | 4.3 | 2.9 | 4 | J |
| 14 | 503 | 5.6 | 46 | J | 7.3 | -2 | 148 | -6.2 | 3.8 | 0.7 | 1 | J |
| 15 | 503 | 5.5 | 52 | J | 7.8 | -4 | 153 | -6.8 | 3.5 | 0.5 | 1 | J |
| 16 | 488 | 5.2 | 84 | J | 8.1 | 0 | 151 | -7.1 | 3.7 | 1.3 | 1 | J |
| 17 | | | | | 8.0 | 5 | 145 | -6.4 | 3.9 | 2.4 | 1 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 7.0 | 23 | 329 | 5.3 | -4.1 | 0.6 | 2 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 6.5 | -5 | 185 | -6.2 | -0.1 | -0.7 | 2 | J |
| 23 | | | | | 6.3 | 5 | 155 | -5.2 | 1.7 | 1.8 | 2 | J |
| 24 | | | | | 6.9 | -5 | 148 | -5.8 | 3.3 | 1.6 | 1 | J |

MAR. 21, 1984

81

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 339 | 7.2 | 22 | J | 4.7 | -14 | 130 | -2.9 | 3.5 | 1.0 | 1 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 317 | 9.4 | 20 | J | 4.6 | -22 | 97 | -0.5 | 4.1 | -0.7 | 2 | J |
| 11 | 328 | 12.6 | 22 | J | 5.4 | -12 | 85 | 0.4 | 5.0 | -0.0 | 2 | J |
| 12 | 331 | 17.3 | 23 | J | 6.4 | -16 | 96 | -0.6 | 5.9 | -0.4 | 2 | J |
| 13 | 334 | 19.8 | 23 | J | 7.8 | -21 | 116 | -3.1 | 6.8 | -1.2 | 2 | J |
| 14 | 333 | 18.8 | 24 | J | 8.6 | -30 | 125 | -4.2 | 6.9 | -2.6 | 1 | J |
| 15 | 336 | 23.2 | 23 | J | 8.8 | -12 | 130 | -5.4 | 6.7 | 0.2 | 2 | J |
| 16 | 336 | 23.3 | 26 | J | 10.0 | -26 | 132 | -5.8 | 7.5 | -1.8 | 3 | J |
| 17 | 341 | 28.7 | 39 | J | 9.0 | -19 | 120 | -3.5 | 6.5 | 0.1 | 6 | J |
| 18 | 348 | 36.6 | 47 | J | 10.5 | -4 | 110 | -3.4 | 8.8 | 3.4 | 3 | J |
| 19 | 348 | 27.6 | 34 | J | 13.0 | -11 | 117 | -4.4 | 8.4 | 2.4 | 9 | J |
| 20 | 381 | 13.7 | 50 | J | 13.9 | 26 | 112 | -2.9 | 4.2 | 6.9 | 11 | J |
| 21 | 390 | 14.6 | 116 | J | 13.5 | -8 | 129 | -8.2 | 9.5 | 4.0 | 3 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAR. 26, 1984

86

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 549 | 5.9 | 87 | J | 7.7 | 16 | 146 | -4.8 | 2.5 | 2.6 | 5 | J |
| 17 | 554 | 7.0 | 95 | J | 8.0 | -13 | 144 | -5.8 | 4.5 | 0.1 | 3 | J |
| 18 | 572 | 7.2 | 91 | J | 8.6 | 17 | 119 | -2.9 | 3.9 | 3.9 | 6 | J |
| 19 | 590 | 16.3 | 141 | J | 4.7 | -18 | 43 | 0.8 | 0.9 | 0.0 | 5 | J |
| 20 | 587 | 13.0 | 146 | J | 5.0 | -40 | 126 | -1.4 | 2.7 | -0.7 | 4 | J |
| 21 | 566 | 7.8 | 117 | J | 6.5 | -51 | 183 | -3.0 | 1.9 | -3.2 | 4 | J |
| 22 | 556 | 6.5 | 146 | J | 7.5 | 16 | 126 | -3.6 | 3.1 | 4.3 | 4 | J |
| 23 | 562 | 7.4 | 138 | J | 7.2 | -17 | 131 | -3.8 | 4.6 | 1.0 | 4 | J |
| 24 | 550 | 7.2 | 148 | J | 7.0 | -3 | 138 | -4.7 | 3.7 | 2.1 | 2 | J |

MAR. 28, 1984

88

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 456 | 7.7 | 75 | J | 7.9 | 2 | 314 | 5.4 | -4.8 | -2.9 | 1 | J |
| 2 | 467 | 10.9 | 74 | J | 7.4 | -9 | 309 | 3.5 | -3.2 | -3.0 | 5 | J |
| 3 | 489 | 5.7 | 103 | J | 8.2 | -65 | 186 | -3.2 | 3.1 | -6.2 | 3 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
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| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 645 | 9.3 | 378 | J | 13.8 | -12 | 299 | 6.2 | -8.9 | -7.3 | 4 | J |
| 19 | 646 | 9.5 | 434 | J | 13.0 | 11 | 308 | 6.3 | -8.1 | -2.1 | 7 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 670 | 6.2 | 317 | J | 9.8 | -1 | 329 | 6.9 | -3.4 | -2.5 | 5 | J |

MAR. 20, 1984

80

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 7.0 | 12 | 137 | -4.9 | 3.0 | 3.8 | 1 | J |
| 2 | | | | | 5.6 | 21 | 118 | -2.1 | 2.4 | 3.6 | 3 | J |
| 3 | | | | | 5.8 | 23 | 13 | 5.0 | -0.1 | 2.5 | 2 | J |
| 4 | | | | | 5.8 | 16 | 23 | 5.0 | 1.2 | 2.3 | 2 | J |
| 5 | | | | | 5.4 | 13 | 28 | 4.3 | 1.6 | 2.0 | 2 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | 4.8 | -4 | 27 | 4.2 | 2.1 | 0.4 | 1 | J |
| 8 | | | | | 4.6 | 14 | 4 | 4.3 | -0.0 | 1.1 | 1 | J |
| 9 | | | | | 6.8 | -9 | 103 | -1.4 | 6.0 | 0.5 | 3 | J |
| 10 | | | | | 6.9 | -8 | 105 | -1.5 | 5.8 | 0.4 | 3 | J |
| 11 | 409 | 9.3 | 43 | J | 6.7 | -13 | 128 | -3.7 | 4.9 | -0.4 | 3 | J |
| 12 | | | | | 6.5 | -2 | 137 | -4.7 | 4.3 | 0.7 | 1 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 370 | 7.3 | 21 | J | 4.5 | 7 | 142 | -3.5 | 2.3 | 1.6 | 1 | J |
| 18 | 367 | 6.8 | 23 | J | 4.4 | 1 | 143 | -3.5 | 2.4 | 1.2 | 0 | J |
| 19 | 367 | 6.9 | 23 | J | 4.9 | 3 | 141 | -3.7 | 2.5 | 1.7 | 1 | J |
| 20 | 363 | 6.4 | 22 | J | 5.2 | 3 | 143 | -4.1 | 2.5 | 1.8 | 0 | J |
| 21 | 361 | 6.6 | 31 | J | 4.7 | -2 | 145 | -3.8 | 2.3 | 1.3 | 1 | J |
| 22 | 365 | 6.5 | 36 | J | 4.7 | -6 | 147 | -3.8 | 2.3 | 1.0 | 1 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAR. 22, 1984

82

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 412 | 12.7 | 116 | J | 8.0 | -31 | 177 | -5.1 | 1.9 | -2.5 | 5 | J |
| 3 | 412 | 9.8 | 72 | J | 7.7 | -7 | 146 | -5.8 | 3.8 | 1.2 | 3 | J |
| 4 | 432 | 10.5 | 128 | J | 6.0 | -12 | 149 | -3.3 | 2.1 | 0.2 | 5 | J |
| 5 | 472 | 10.7 | 144 | J | 6.0 | -66 | 84 | 0.2 | 2.9 | -2.6 | 4 | J |
| 6 | 450 | 10.3 | 140 | J | 6.9 | -64 | 179 | -2.8 | 2.1 | -5.3 | 3 | J |
| 7 | 461 | 9.6 | 142 | J | 7.6 | -57 | 149 | -3.5 | 3.9 | -5.2 | 2 | J |
| 8 | 452 | 7.7 | 175 | J | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
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MAR. 27, 1984

87

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 512 | 6.7 | 73 | J | 6.7 | -7 | 285 | 1.5 | -5.2 | -2.3 | 3 | J |
| 16 | 502 | 6.3 | 78 | J | 6.9 | 12 | 317 | 4.6 | -4.5 | -0.2 | 2 | J |
| 17 | 506 | 6.0 | 61 | J | 6.7 | 1 | 301 | 3.2 | -5.0 | -2.0 | 2 | J |
| 18 | 498 | 5.6 | 63 | J | 6.7 | -7 | 317 | 4.6 | -3.6 | -2.6 | 2 | J |
| 19 | 492 | 5.4 | 79 | J | 6.4 | -11 | 328 | 4.9 | -2.2 | -2.5 | 2 | J |
| 20 | 495 | 6.3 | 112 | J | 5.4 | -26 | 321 | 3.4 | -1.3 | -3.3 | 3 | J |
| 21 | 496 | 6.0 | 83 | J | 6.5 | -14 | 312 | 3.8 | -2.8 | -3.4 | 3 | J |
| 22 | 485 | 6.4 | 88 | J | 6.6 | -8 | 294 | 2.5 | -4.2 | -3.9 | 2 | J |
| 23 | 469 | 5.3 | 58 | J | 6.6 | 0 | 332 | 5.3 | -2.3 | -1.6 | 3 | J |
| 24 | 476 | 6.5 | 100 | J | 6.9 | -6 | 328 | 5.3 | -2.4 | -2.4 | 3 | J |

MAR. 29, 1984

89

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 665 | 6.0 | 324 | J | 9.8 | 0 | 337 | 7.0 | -2.4 | -1.7 | 6 | J |
| 2 | 676 | 4.9 | 340 | J | 11.1 | 17 | 323 | 7.1 | -6.0 | -0.5 | 6 | J |
| 3 | 674 | 5.1 | 324 | J | 11.0 | 1 | 318 | 7.3 | -5.8 | -3.1 | 5 | J |
| 4 | 687 | 5.1 | 411 | J | 10.3 | 22 | 332 | 6.9 | -4.7 | 1.2 | 6 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 734 | 2.9 | 197 | J | 6.7 | -13 | 290 | 1.9 | -4.9 | -2.4 | 3 | J |
| 11 | 744 | 3.0 | 276 | J | 6.6 | 38 | 300 | 1.9 | -3.9 | 2.3 | 4 | J |
| 12 | 722 | 3.2 | 254 | J | 5.9 | -13 | 310 | 3.1 | -3.4 | -1.9 | 3 | J |
| 13 | 708 | 2.5 | 193 | J | 5.0 | 6 | 358 | 4.2 | -0.2 | 0.4 | 3 | J |
| 14 | 703 | 3.0 | 164 | J | 5.1 | -17 | 352 | 4.4 | -0.3 | -1.5 | 2 | J |
| 15 | 676 | 2.5 | 153 | J | 5.6 | 7 | 358 | 5.2 | -0.4 | 0.6 | 2 | J |
| 16 | 644 | 2.4 | 123 | J | 6.1 | 4 | 336 | 5.3 | -2.4 | -0.4 | 2 | J |
| 17 | 656 | 2.6 | 216 | J | 5.9 | -8 | 330 | 4.5 | -2.1 | -1.7 | 3 | J |
| 18 | 659 | 2.5 | 182 | J | 6.0 | -21 | 348 | 4.6 | -0.1 | -2.0 | 3 | J |
| 19 | 647 | 2.7 | 89 | J | 5.7 | -13 | 326 | 4.0 | -1.9 | -2.3 | 3 | J |
| 20 | 631 | 2.1 | 84 | J | 6.0 | 15 | 354 | 5.3 | -1.2 | 0.9 | 2 | J |
| 21 | 641 | 2.8 | 116 | J | 5.9 | 25 | 334 | 4.2 | -2.9 | 0.7 | 3 | J |
| 22 | 617 | 2.4 | 81 | J | 5.7 | -1 | 324 | 4.2 | -2.5 | -1.8 | 2 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

# 03/30/84 – 04/16/84

MAR. 30, 1984 90

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 605 | 4.1 | 216 | J | 5.8 | -15 | 358 | 5.2 | 0.6 | -1.3 | 2 | J |
| 2 | 604 | 4.8 | 198 | J | 6.6 | -22 | 3 | 4.8 | 1.2 | -1.5 | 4 | J |
| 3 | 610 | 5.2 | 156 | J | 6.8 | 15 | 324 | 3.8 | -3.0 | -0.3 | 5 | J |
| 4 | 592 | 5.1 | 151 | J | 7.5 | -27 | 345 | 6.2 | -0.0 | -3.7 | 2 | J |
| 5 | 621 | 5.3 | 137 | J | 7.5 | -31 | 323 | 4.4 | -1.7 | -4.3 | 4 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 711 | 5.8 | 272 | J | | | | | | | | |
| 10 | 691 | 4.8 | 182 | J | 7.0 | -14 | 300 | 3.1 | -4.9 | -2.7 | 3 | J |
| 11 | 696 | 5.0 | 202 | J | 6.3 | -23 | 301 | 2.5 | -3.7 | -2.9 | 4 | J |
| 12 | 679 | 4.9 | 192 | J | 6.4 | -3 | 320 | 4.6 | -3.7 | -1.1 | 2 | J |
| 13 | 699 | 4.2 | 234 | J | 6.6 | 39 | 280 | 0.7 | -4.4 | 2.2 | 4 | J |
| 14 | 705 | 3.2 | 169 | J | 4.8 | 18 | 317 | 2.9 | -2.9 | 0.6 | 2 | J |
| 15 | 706 | 3.4 | 180 | J | 4.7 | 24 | 9 | 3.5 | 0.1 | 1.7 | 3 | J |
| 16 | 722 | 3.0 | 164 | J | 4.8 | 40 | 339 | 2.9 | -1.9 | 2.1 | 2 | J |
| 17 | 698 | 3.0 | 128 | J | 5.3 | -21 | 350 | 4.5 | -0.1 | -1.9 | 2 | J |
| 18 | 666 | 4.1 | 193 | J | 5.6 | -18 | 326 | 4.2 | -1.8 | -2.7 | 2 | J |
| 19 | 670 | 4.2 | 204 | J | 5.4 | -2 | 323 | 3.8 | -2.5 | -1.5 | 3 | J |
| 20 | 708 | 3.9 | 178 | J | 4.7 | 31 | 270 | -0.0 | -2.1 | 0.0 | 4 | J |
| 21 | 653 | 3.7 | 273 | J | 3.3 | -12 | 287 | 0.7 | -1.8 | -1.8 | 2 | J |
| 22 | 645 | 3.6 | 185 | J | 3.8 | 13 | 318 | 2.5 | -2.3 | -0.6 | 1 | J |
| 23 | | | | | | | | | | | | |
| 24 | 592 | 2.8 | 136 | J | 4.8 | -37 | 320 | 2.3 | -0.3 | -3.0 | 3 | J |

MAR. 31, 1984 91

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 608 | 3.3 | 190 | J | 4.4 | 26 | 325 | 2.4 | -2.1 | 0.3 | 3 | J |
| 2 | 568 | 3.1 | 98 | J | 5.2 | -14 | 348 | 3.9 | -0.2 | -1.3 | 3 | J |
| 3 | 579 | 3.0 | 93 | J | 5.0 | 7 | 318 | 2.8 | -2.4 | -0.8 | 3 | J |
| 4 | 571 | 3.1 | 92 | J | 4.9 | 0 | 313 | 3.1 | -2.9 | -1.5 | 2 | J |
| 5 | 577 | 3.8 | 180 | L | 4.6 | -15 | 262 | -0.4 | -2.2 | -1.8 | 4 | J |
| 6 | | | | | 5.4 | 26 | 191 | -4.8 | -1.7 | 1.9 | 0 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | 7.7 | -10 | 349 | 7.3 | -1.1 | -1.6 | 2 | J |
| 15 | 508 | 3.3 | 69 | J | 7.6 | -16 | 350 | 6.6 | -0.6 | -2.2 | 3 | J |
| 16 | 499 | 3.0 | 126 | J | 7.4 | 6 | 1 | 7.1 | -0.1 | 0.7 | 2 | J |
| 17 | 490 | 4.2 | 153 | J | 8.1 | -5 | 14 | 7.7 | 2.0 | 0.1 | 1 | J |
| 18 | 490 | 4.3 | 130 | J | 8.6 | -5 | 12 | 8.3 | 1.9 | 0.1 | 1 | J |
| 19 | | | | | 9.1 | -15 | 10 | 8.4 | 2.4 | -1.3 | 2 | J |
| 20 | 477 | 5.3 | 209 | L | 8.4 | -24 | 7 | 7.5 | 2.5 | -2.4 | 1 | J |
| 21 | 519 | 4.9 | 157 | J | 8.2 | -35 | 352 | 5.3 | 1.4 | -3.5 | 5 | J |
| 22 | 543 | 5.1 | 255 | J | 8.1 | -14 | 359 | 5.4 | 0.7 | -1.2 | 6 | J |
| 23 | 580 | 3.2 | 144 | J | 10.5 | -7 | 296 | 4.4 | -6.8 | -6.2 | 2 | J |
| 24 | | | | | | | | | | | | |

APR. 1, 1984 92

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 654 | 3.1 | 283 | J | 9.1 | -10 | 297 | 3.4 | -4.9 | -4.8 | 5 | J |
| 2 | 630 | 3.5 | 311 | J | 8.9 | -12 | 304 | 4.5 | -4.8 | -5.0 | 3 | J |
| 3 | 640 | 3.5 | 309 | J | 9.3 | -4 | 295 | 3.6 | -6.4 | -4.3 | 4 | J |
| 4 | 635 | 3.9 | 298 | J | 8.9 | -35 | 301 | 3.1 | -2.8 | -6.1 | 5 | J |
| 5 | 656 | 4.0 | 308 | J | 9.1 | -12 | 290 | 2.5 | -5.6 | -4.1 | 5 | J |
| 6 | | | | | | | | | | | | |
| 7 | 563 | 4.0 | 142 | J | 9.2 | -16 | 314 | 5.8 | -5.0 | -4.1 | 3 | J |
| 8 | 568 | 4.9 | 175 | J | 8.8 | -7 | 333 | 5.9 | -2.7 | -1.6 | 6 | J |
| 9 | | | | | | | | | | | | |
| 10 | 538 | 4.8 | 164 | J | 7.5 | -1 | 337 | 6.5 | -2.7 | -0.7 | 2 | J |
| 11 | 558 | 4.5 | 135 | J | 7.2 | 4 | 315 | 4.7 | -4.7 | -0.5 | 3 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 543 | 4.3 | 100 | J | 7.5 | 6 | 327 | 5.5 | -3.6 | -0.2 | 4 | J |
| 15 | 524 | 4.6 | 78 | J | 7.5 | -7 | 324 | 5.5 | -3.6 | -1.9 | 3 | J |
| 16 | 529 | 5.4 | 93 | J | 7.7 | -16 | 328 | 5.2 | -2.5 | -2.7 | 4 | J |
| 17 | 531 | 5.8 | 114 | J | 7.6 | -6 | 319 | 4.5 | -3.4 | -2.1 | 4 | J |
| 18 | 539 | 5.6 | 125 | J | 7.7 | 20 | 305 | 3.9 | -6.1 | -0.1 | 2 | J |
| 19 | 508 | 5.4 | 57 | J | 7.4 | 3 | 336 | 6.1 | -2.6 | -1.0 | 3 | J |
| 20 | 519 | 5.2 | 128 | J | 6.8 | -41 | 359 | 5.0 | 2.1 | -3.8 | 2 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

APR. 3, 1984 94

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 9.2 | -42 | 291 | 2.3 | -1.9 | -8.3 | 3 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 7.0 | -36 | 273 | 0.3 | -3.1 | -5.8 | 2 | J |
| 5 | | | | | 6.6 | -9 | 295 | 2.3 | -4.3 | -2.8 | 3 | J |
| 6 | | | | | 6.3 | 1 | 259 | -1.2 | -5.8 | -2.1 | 1 | J |
| 7 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | 5.9 | -11 | 345 | 3.7 | -0.4 | -1.2 | 4 | J |

APR. 4, 1984 95

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 648 | 1.8 | 269 | L | 5.7 | -6 | 308 | 2.7 | -2.6 | -2.3 | 4 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | 6.4 | -17 | 300 | 2.5 | -3.4 | -3.2 | 4 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

APR. 10, 1984 101

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | 5.3 | 10 | 316 | 3.5 | -3.5 | 0.1 | 2 | J |
| 10 | | | | | 6.1 | 21 | 311 | 1.6 | -2.0 | 0.6 | 6 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 9.5 | -1 | 140 | -6.3 | 5.2 | 0.8 | 5 | J |
| 13 | | | | | 9.4 | -18 | 141 | -6.7 | 5.9 | -1.7 | 2 | J |
| 14 | | | | | 9.5 | -19 | 133 | -6.1 | 7.0 | -1.5 | 1 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | 8.3 | -20 | 158 | -4.4 | 2.3 | -0.9 | 6 | J |
| 18 | | | | | 8.2 | -4 | 132 | -5.3 | 5.6 | 1.9 | 2 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
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| 24 | | | | | | | | | | | | |

APR. 14, 1984 105

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 14.1 | 43 | 86 | 0.6 | 2.9 | 11.4 | 8 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

APR. 16, 1984 107

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 6.2 | -28 | 177 | -5.2 | 1.7 | -2.2 | 2 | J |
| 22 | | | | | 6.1 | -19 | 166 | -4.9 | 1.9 | -0.8 | 3 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

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04/21/84 - 05/04/84

```
HR   VEL   DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF     VEL   DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC   MAGN LAT LON                     SC                 1000  SC   MAGN LAT LON                     SC
                          APR. 21, 1984                    112                           APR. 22, 1984                    113

 1
 2
 3
 4
 5
 6
 7
 8   555   5.0  123  L    5.1  10 225  -3.4  -3.5   0.1  1  J     452   5.4   73  L    4.4  -1 166  -4.0   1.0   0.1  1  J
 9   566   3.7  121  L    4.9  10 209  -4.1  -2.4   0.4  1  J     450   6.2   82  L    5.2  -9 151  -3.8   2.2  -0.3  3  J
10   569   3.6  109  L    5.5  -1 184  -5.5  -0.4  -0.2  1  J     447   6.0   77  L    5.4   3 133  -3.1   3.2   0.7  3  J
11   565   3.9   76  L    6.3  -1 184  -6.2  -0.4  -0.2  1  J     444   6.3   80  L    4.6  20 104  -1.0   3.8   2.1  1  J
12   558   4.2   82  L    6.5   0 190  -6.4  -1.1  -0.2  0  J     431   5.7   71  L    4.3   3 168  -3.7   0.8   0.3  2  J
13   552   4.3  109  L    6.1  -1 185  -5.9  -0.5  -0.2  2  J                          4.2  11 163  -3.7   1.0   0.9  2  J
14   544   4.0  143  L    5.7 -10 154  -4.7   2.4  -0.5  1  J                          4.6  20 150  -3.7   1.8   1.9  1  J
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                          APR. 24, 1984                    115                           APR. 25, 1984                    116

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 9                        7.0  27 311   3.6  -4.6   2.1  3  J
10                        7.9  21 314   4.0  -6.2   1.8  2  J                         15.9  60 159  -5.7   0.7  10.9 10  J
11                        8.2  22 271   0.1  -7.0   1.8  4  J                         13.1  87 215  -0.4  -1.4   8.7 10  J
12                        8.0  33 261  -1.0  -6.6   3.1  3  J                         10.3   7 312   2.7  -3.0   0.1 10  J
13                        8.6   2 330   7.3  -4.2  -0.4  2  J                         13.9 -20   4  11.1   1.4  -3.9  7  J
14                        8.7  -3 331   7.6  -4.1  -1.2  1  J                         22.2 -30 343  18.2  -3.5 -11.8  3  J
15
16
17
18                        7.8   8 334   6.4  -3.3  -0.3  3  J
19                                                                                    13.3  -7 310   8.4  -8.3  -5.7  3  J
20                                                                                    14.1  -5 317  10.1  -7.7  -5.4  3  J
21                                                                                    13.3  -4 312   8.3  -7.6  -5.3  5  J
22                                                                                    14.4  10 296   5.2 -10.2  -3.6  8  J
23                                                                                    17.9 -39   3  13.5   6.2  -9.0  4  J
24                                                                                    19.3 -41 354  14.5   5.1 -11.7  1  J

                          APR. 26, 1984                    117                           APR. 27, 1984                    118

 1                                                                                     9.2 -17 342   8.3  -1.1  -3.6  2  J
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 8
 9
10
11                        8.5 -42 334   3.3  -1.2  -3.5  7  J
12                        8.8  -4 332   7.1  -3.7  -1.1  3  J
13                        9.6   3 321   6.4  -5.2  -0.3  5  J                          5.4  -9 330   3.3  -1.8  -0.9  4  J
14                                                                                     5.4 -29  17   4.4   1.8  -2.3  1  J
15
16
17                                                                                     5.0  13 288   1.1  -3.3  -0.3  3  J
18                       12.5 -58 330   5.4   0.8 -10.5  4  J                          4.9 -18 302   2.1  -2.6  -2.4  3  J
19                       11.7 -21 305   5.5  -5.6  -6.7  6  J     519   5.4  191  L    5.1 -15 326   3.5  -1.7  -2.0  2  J
20                                                                535   5.2  193  L    5.3  15 297   1.5  -3.0  -0.6  4  J
21                        8.6  15 282   1.3  -6.0  -1.5  6  J     548   6.2  168  L    5.5  -5  70   1.3   3.4   1.5  4  J
22                        9.1  10 318   4.9  -4.4  -1.2  6  J
23                        9.3  -2 313   5.5  -4.9  -3.3  5  J
24                        9.8 -14 313   6.4  -4.7  -5.4  2  J

                          MAY  3, 1984                     124                           MAY  4, 1984                     125

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 6
 7                                                                468   7.6   32  J    9.9 -20  40   6.7   6.1  -2.0  4  J
 8                                                                477   6.9   40  J   10.3 -20 347   9.2  -1.6  -3.8  2  J
 9                                                                485   5.1   41  J   11.1 -22 350  10.1  -1.3  -4.3  1  J
10                                                                467   3.9   95  L   11.7 -19 352  10.9  -1.1  -3.9  1  J
11   512  10.7   58  J
12   484  16.5   51  J    6.4  61 149  -2.5   1.0   5.4  2  J     464  13.7   33  J   10.6 -15  12   9.9   2.4  -2.5  1  J
13   485  20.3   31  J    6.3  69  24   1.9   0.2   5.6  2  J     460  12.6   29  J   10.4 -12  31   8.7   5.4  -1.6  0  J
14                        6.1  20 350   5.6  -1.3   1.9  1  J     449  14.2   45  J    8.5  -2  49   5.4   6.2   0.6  2  J
15                                                                438  14.9   59  J    8.6  -1  55   4.9   7.0   1.1  1  J
16
17
18                                                                452  14.1   41  J    7.8 -17  12   7.3   2.2  -1.6  1  J
19                                                                452  16.0   50  J    7.3 -18  10   6.6   1.9  -1.6  2  J
20                                                                454  17.0   41  J    6.7 -15  20   6.0   2.7  -0.6  1  J
21                                                                455  15.6   44  J    7.1 -22   9   6.5   2.1  -1.9  1  J
22   433  14.7   35  J    9.2 -27 354   8.0   1.2  -4.0  2  J     435  14.0   47  J    5.3 -16 345   4.8  -0.5  -1.9  1  J
23   460   8.0   30  J   10.2 -22 332   8.2  -2.0  -5.4  1  J
24
```

# 05/05/84 – 05/12/84

MAY 5, 1984 126

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 443 | 7.7 | 42 | J | 7.3 | -23 | 353 | 6.6 | -0.4 | -2.9 | 1 | J |
| 9 | 387 | 13.6 | 49 | J | 6.6 | -22 | 354 | 5.2 | -0.3 | -2.1 | 4 | J |
| 10 | 421 | 9.1 | 40 | J | 9.0 | -28 | 357 | 7.8 | -0.0 | -4.2 | 1 | J |
| 11 | 401 | 13.7 | 51 | J | 7.5 | -31 | 346 | 5.8 | -1.1 | -3.7 | 3 | J |
| 12 | 400 | 12.7 | 28 | J | 8.7 | -29 | 320 | 5.8 | -4.5 | -4.6 | 1 | J |
| 13 | 404 | 11.3 | 31 | J | 9.0 | -29 | 322 | 6.1 | -4.3 | -4.8 | 1 | J |
| 14 | 395 | 14.5 | 50 | J | 6.4 | -61 | 271 | 0.0 | -0.5 | -1.3 | 6 | J |
| 15 | 399 | 13.9 | 55 | J | 7.1 | -36 | 298 | 2.7 | -4.2 | -4.9 | 1 | J |
| 16 | | | | | | | | | | | | |
| 17 | 417 | 8.6 | 30 | J | 9.5 | -40 | 335 | 6.4 | -1.2 | -6.5 | 2 | J |
| 18 | 410 | 8.5 | 30 | J | 9.6 | -39 | 326 | 6.2 | -1.9 | -7.1 | 1 | J |
| 19 | 406 | 14.5 | 41 | J | 8.2 | -41 | 322 | 4.9 | -1.4 | -6.4 | 1 | J |
| 20 | 411 | 14.5 | 52 | J | 7.8 | -37 | 324 | 5.0 | -1.3 | -5.7 | 2 | J |
| 21 | 377 | 16.6 | 60 | J | 6.6 | 32 | 129 | -3.5 | 2.2 | 5.0 | 2 | J |
| 22 | 386 | 12.9 | 50 | J | 7.8 | 30 | 125 | -0.8 | 0.6 | 1.2 | 8 | J |
| 23 | 387 | 15.8 | 58 | J | 7.8 | 25 | 152 | -3.8 | 0.8 | 2.7 | 6 | J |
| 24 | 363 | 13.4 | 68 | J | 7.2 | -33 | 295 | 2.4 | -2.9 | -5.8 | 3 | J |

MAY 6, 1984 127

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 373 | 13.7 | 45 | J | 7.8 | -35 | 249 | -0.5 | -0.7 | -1.5 | 8 | J |
| 2 | | | | | 7.0 | 16 | 137 | -4.6 | 3.1 | 3.4 | 3 | J |
| 3 | 373 | 19.9 | 43 | J | 6.9 | 26 | 130 | -3.6 | 2.9 | 4.2 | 3 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 359 | 11.4 | 46 | J | 7.9 | -28 | 204 | -5.3 | -1.9 | -3.4 | 4 | J |
| 9 | 371 | 13.2 | 44 | J | 7.5 | -27 | 125 | -3.2 | 4.9 | -2.3 | 4 | J |
| 10 | 378 | 15.1 | 30 | J | 7.5 | -13 | 63 | 3.1 | 6.3 | -1.0 | 3 | J |
| 11 | 390 | 13.2 | 41 | J | 7.3 | 5 | 51 | 4.5 | 5.4 | 1.1 | 2 | J |
| 12 | 374 | 14.6 | 49 | J | 5.4 | 12 | 62 | 2.3 | 4.3 | 1.4 | 2 | J |
| 13 | 375 | 13.5 | 36 | J | 6.0 | 5 | 65 | 2.5 | 5.2 | 1.0 | 1 | J |
| 14 | 358 | 9.9 | 54 | J | 6.0 | -49 | 194 | -2.0 | -0.2 | -2.5 | 5 | J |
| 15 | 345 | 11.7 | 43 | J | 6.7 | -22 | 147 | -4.8 | 3.5 | -1.8 | 3 | J |
| 16 | 362 | 11.3 | 29 | J | 6.0 | 12 | 86 | 0.4 | 5.3 | 2.4 | 1 | J |
| 17 | 358 | 12.0 | 37 | J | 5.3 | 16 | 89 | 0.1 | 4.4 | 2.8 | 1 | J |
| 18 | 349 | 11.3 | 34 | J | 4.8 | 8 | 101 | -0.9 | 4.0 | 2.1 | 2 | J |
| 19 | 352 | 11.8 | 35 | J | 5.4 | 3 | 86 | 0.3 | 4.1 | 2.0 | 3 | J |
| 20 | 319 | 9.7 | 45 | J | 6.6 | 19 | 156 | -5.6 | 1.4 | 3.0 | 1 | J |
| 21 | | | | | 7.1 | 9 | 146 | -5.7 | 2.9 | 2.7 | 1 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 7, 1984 128

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 7.6 | 18 | 126 | -4.1 | 4.2 | 4.5 | 2 | J |
| 3 | 336 | 9.8 | 18 | J | 7.8 | 45 | 131 | -3.4 | 1.6 | 6.3 | 3 | J |
| 4 | 336 | 9.4 | 21 | J | 7.7 | 30 | 125 | -3.8 | 3.8 | 5.4 | 1 | J |
| 5 | | | | | 7.4 | 11 | 123 | -3.9 | 5.4 | 3.1 | 1 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 350 | 12.2 | 28 | J | 7.6 | -16 | 111 | -2.5 | 6.7 | -1.4 | 2 | J |
| 11 | 347 | 11.8 | 26 | J | 7.8 | -48 | 114 | -2.0 | 4.9 | -5.1 | 2 | J |
| 12 | 339 | 11.5 | 19 | J | 7.2 | -16 | 126 | -3.3 | 4.6 | -1.2 | 4 | J |
| 13 | 343 | 12.3 | 23 | J | 7.2 | 18 | 112 | -2.2 | 5.2 | 2.4 | 4 | J |
| 14 | 332 | 12.5 | 19 | J | 8.0 | 33 | 132 | -4.5 | 4.4 | 4.9 | 0 | J |
| 15 | 336 | 12.8 | 22 | J | 7.5 | 24 | 123 | -3.3 | 4.6 | 3.5 | 3 | J |
| 16 | 338 | 14.1 | 19 | J | 7.2 | 31 | 112 | -2.2 | 4.4 | 4.5 | 3 | J |
| 17 | 336 | 13.3 | 19 | J | 7.0 | 1 | 113 | -2.6 | 5.9 | 1.8 | 2 | J |
| 18 | 327 | 12.9 | 25 | J | 7.1 | 22 | 137 | -4.4 | 3.1 | 3.7 | 3 | J |
| 19 | 336 | 13.4 | 22 | J | 7.3 | 23 | 122 | -3.1 | 3.6 | 4.1 | 4 | J |
| 20 | 324 | 13.0 | 23 | J | 7.3 | -3 | 132 | -4.8 | 5.0 | 1.9 | 1 | J |
| 21 | | | | | 7.2 | 2 | 139 | -5.2 | 3.9 | 2.2 | 2 | J |
| 22 | 314 | 14.3 | 30 | J | 7.5 | -1 | 149 | -6.1 | 3.3 | 1.6 | 2 | J |
| 23 | | | | | 7.6 | 8 | 148 | -5.8 | 2.7 | 2.6 | 3 | J |
| 24 | | | | | 8.5 | 40 | 181 | -6.4 | -2.6 | 4.7 | 1 | J |

MAY 8, 1984 129

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 11.0 | -2 | 128 | -6.7 | 8.2 | 2.5 | 1 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | 11.2 | 13 | 126 | -6.3 | 7.9 | 4.4 | 2 | J |
| 7 | 376 | 12.0 | 49 | J | 10.3 | 26 | 134 | -6.0 | 5.3 | 5.3 | 4 | J |
| 8 | 368 | 11.9 | 69 | J | 10.2 | 11 | 138 | -6.9 | 5.9 | 2.7 | 4 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 376 | 11.6 | 47 | J | 9.8 | 33 | 136 | -5.6 | 3.5 | 6.5 | 3 | J |
| 19 | 380 | 13.6 | 60 | J | 10.5 | 29 | 134 | -5.7 | 3.8 | 6.4 | 5 | J |
| 20 | 370 | 13.5 | 63 | J | 10.4 | 24 | 157 | -8.3 | 1.5 | 5.1 | 3 | J |
| 21 | 366 | 13.6 | 58 | J | 11.0 | 16 | 147 | -8.5 | 3.7 | 5.1 | 3 | J |
| 22 | 368 | 14.1 | 52 | J | 11.4 | 28 | 154 | -8.6 | 1.4 | 6.4 | 3 | J |
| 23 | 369 | 13.1 | 49 | J | 10.3 | 35 | 161 | -7.7 | -0.3 | 6.3 | 3 | J |
| 24 | 367 | 13.3 | 68 | J | 9.5 | 10 | 162 | -8.7 | 1.8 | 2.7 | 2 | J |

MAY 9, 1984 130

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 377 | 14.1 | 70 | J | 9.4 | 8 | 123 | -4.7 | 6.0 | 4.3 | 3 | J |
| 2 | 369 | 14.1 | 68 | J | 9.6 | -1 | 142 | -7.2 | 5.2 | 2.2 | 3 | J |
| 3 | 374 | 13.7 | 80 | J | 8.8 | 11 | 134 | -5.6 | 4.8 | 3.6 | 3 | J |
| 4 | 379 | 13.2 | 66 | J | 8.5 | -6 | 148 | -6.7 | 4.3 | 0.6 | 3 | J |
| 5 | 379 | 12.3 | 78 | J | 8.6 | 16 | 138 | -5.8 | 4.4 | 3.6 | 3 | J |
| 6 | 378 | 11.9 | 65 | J | 8.3 | -8 | 163 | -6.6 | 2.2 | -0.5 | 4 | J |
| 7 | 380 | 13.0 | 78 | J | 8.4 | -6 | 196 | -6.8 | -1.8 | -1.1 | 4 | J |
| 8 | 384 | 13.1 | 101 | J | 8.0 | -22 | 178 | -6.2 | 0.6 | -2.5 | 4 | J |
| 9 | | | | | | | | | | | | |
| 10 | 384 | 11.3 | 69 | J | 8.8 | 16 | 136 | -5.7 | 5.4 | 2.7 | 3 | J |
| 11 | 388 | 12.2 | 91 | J | 9.2 | 19 | 125 | -4.7 | 6.5 | 3.2 | 3 | J |
| 12 | 400 | 13.2 | 81 | J | 9.2 | -20 | 135 | -4.3 | 4.5 | -1.9 | 7 | J |
| 13 | 379 | 12.6 | 59 | J | 9.7 | -6 | 146 | -7.0 | 4.8 | -0.5 | 5 | J |
| 14 | 368 | 12.1 | 54 | J | 9.3 | -24 | 195 | -8.0 | -1.7 | -3.9 | 2 | J |
| 15 | 373 | 12.3 | 52 | J | 9.3 | -27 | 192 | -7.6 | -1.0 | -4.2 | 3 | J |
| 16 | 394 | 12.8 | 63 | J | 10.0 | 21 | 123 | -3.6 | 4.9 | 3.6 | 7 | J |
| 17 | 377 | 12.4 | 63 | J | 9.6 | -20 | 159 | -6.2 | 2.9 | -1.7 | 6 | J |
| 18 | 400 | 13.0 | 59 | J | 11.1 | 20 | 179 | -3.0 | 7.2 | 6.0 | 5 | J |
| 19 | 385 | 12.4 | 59 | J | 11.2 | -26 | 140 | -7.1 | 7.2 | -2.0 | 4 | J |
| 20 | 390 | 11.3 | 74 | J | 11.3 | 13 | 134 | -7.2 | 5.8 | 5.2 | 4 | J |
| 21 | 395 | 14.1 | 91 | J | 11.9 | -39 | 175 | -8.7 | 3.8 | -6.0 | 4 | J |
| 22 | 400 | 12.1 | 66 | J | 11.9 | -9 | 140 | -6.0 | 5.0 | 1.2 | 9 | J |
| 23 | 400 | 12.2 | 94 | J | 11.9 | -43 | 170 | -7.9 | 4.7 | -6.0 | 4 | J |
| 24 | 401 | 13.2 | 125 | J | 10.9 | -26 | 160 | -8.4 | 4.7 | -2.5 | 4 | J |

MAY 10, 1984 131

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 417 | 13.7 | 148 | J | 10.4 | 24 | 120 | -4.2 | 4.9 | 6.5 | 5 | J |
| 2 | | | | | | | | | | | | |
| 3 | 387 | 12.2 | 72 | J | 11.8 | -2 | 142 | -8.8 | 6.6 | 2.2 | 4 | J |
| 4 | 384 | 12.5 | 58 | J | 11.6 | -30 | 178 | -9.3 | 2.0 | -5.0 | 4 | J |
| 5 | 404 | 12.4 | 63 | J | 11.7 | -63 | 137 | -3.1 | 5.0 | -7.2 | 7 | J |
| 6 | | | | | | | | | | | | |
| 7 | 373 | 13.1 | 46 | J | 11.6 | 9 | 135 | -7.8 | 7.3 | 3.0 | 3 | J |
| 8 | 379 | 12.3 | 46 | J | 11.6 | -28 | 144 | -7.8 | 6.3 | -4.3 | 4 | J |
| 9 | 393 | 12.2 | 73 | J | 11.4 | -35 | 183 | -8.3 | 0.1 | -5.9 | 5 | J |
| 10 | 401 | 12.0 | 85 | J | 10.8 | -35 | 143 | -6.7 | 5.5 | -5.5 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 458 | 18.6 | 138 | J | 15.2 | -27 | 137 | -6.8 | 7.1 | -3.3 | 11 | J |
| 17 | 467 | 20.3 | 175 | J | 14.0 | 2 | 120 | -6.3 | 10.4 | 3.2 | 6 | J |
| 18 | 492 | 20.7 | 217 | J | 12.4 | 49 | 113 | -2.2 | 2.9 | 7.7 | 9 | J |
| 19 | 492 | 21.9 | 201 | J | 12.5 | 69 | 234 | -2.4 | -7.0 | 8.8 | 5 | J |
| 20 | 498 | 19.9 | 197 | J | 14.2 | 50 | 96 | -0.9 | 3.5 | 12.5 | 6 | J |
| 21 | 497 | 18.0 | 180 | J | 14.1 | 25 | 95 | -1.1 | 8.3 | 10.3 | 5 | J |
| 22 | 468 | 15.8 | 121 | J | 14.2 | 17 | 109 | -4.1 | 9.0 | 8.9 | 5 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 11, 1984 132

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 491 | 17.0 | 96 | J | 12.4 | 48 | 50 | 5.3 | 2.1 | 11.0 | 0 | J |
| 3 | 490 | 17.7 | 105 | J | 12.6 | 50 | 64 | 3.5 | 3.3 | 11.4 | 2 | J |
| 4 | 492 | 20.1 | 90 | J | 11.8 | 29 | 73 | 3.0 | 7.4 | 8.4 | 2 | J |
| 5 | 495 | 21.7 | 86 | J | 11.3 | 20 | 67 | 4.1 | 8.2 | 6.2 | 2 | J |
| 6 | 468 | 21.5 | 52 | J | 12.2 | 9 | 82 | 1.7 | 11.2 | 4.4 | 1 | J |
| 7 | 467 | 31.5 | 48 | J | 11.3 | -3 | 80 | 1.9 | 10.7 | 1.2 | 3 | J |
| 8 | 466 | 42.3 | 38 | J | 9.7 | 0 | 77 | 2.1 | 9.1 | 1.1 | 2 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 481 | 16.8 | 59 | J | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 463 | 20.4 | 36 | J | | | | | | | | |
| 18 | 463 | 21.4 | 49 | J | | | | | | | | |
| 19 | 456 | 18.3 | 27 | J | | | | | | | | |
| 20 | 451 | 18.0 | 29 | J | | | | | | | | |
| 21 | 447 | 17.6 | 32 | J | | | | | | | | |
| 22 | 447 | 17.1 | 38 | J | | | | | | | | |
| 23 | 432 | 16.1 | 43 | J | | | | | | | | |
| 24 | 428 | 17.7 | 58 | J | | | | | | | | |

MAY 12, 1984 133

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 430 | 17.9 | 61 | J | | | | | | | | |
| 2 | 424 | 25.5 | 36 | J | | | | | | | | |
| 3 | 451 | 24.2 | 32 | J | | | | | | | | |
| 4 | 413 | 26.5 | 31 | J | | | | | | | | |
| 5 | 409 | 26.1 | 25 | J | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 402 | 26.9 | 46 | J | | | | | | | | |
| 10 | 417 | 28.6 | 34 | J | | | | | | | | |
| 11 | 405 | 27.8 | 47 | J | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
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| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
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OF POOR QUALITY

05/17/84 – 05/24/84

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HR    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000   SC  MAGN LAT LON                     SC                   1000   SC  MAGN LAT LON                     SC

                              MAY  17, 1984           138                                MAY  18, 1984           139

 1
 2
 3
 4
 5
 6
 7                                                             487 13.3  76  J    9.8  16 281   1.7  -8.9   1.4  3 J
 8    570 17.6 149  J    9.5   0  50   5.5   6.6   0.6  4 J    487 13.7  88  J    7.6  21 273   0.3  -6.7   2.0  3 J
 9    531 16.8 120  J   11.5 -42 149  -6.2   4.1  -6.3  6 J    488 11.6 124  J    5.7  34 289   1.1  -3.3   2.1  4 J
10    557 21.7 139  J   11.0  15  50   4.3   5.1   2.0  9 J    492 11.0 123  J    5.1  14 290   1.0  -2.7   0.6  4 J
11    556 26.4  49  J   12.6  35  15   9.8   2.5   7.2  2 J    469  9.4 112  J    5.2  14 298   2.2  -4.2   1.1  2 J
12    539 22.7  72  J   12.2  40 312   5.2  -5.9   6.4  7 J    471  9.3 101  J    5.3   6 289   1.6  -4.5   0.4  2 J
13                       9.2  39 293   3.0  -7.3   4.2  2 J    459  9.2  56  J    5.3 -14 320   3.8  -3.1  -1.3  1 J
14                                                             492 19.3 760  J    5.8  19 298   2.3  -4.4   1.4  3 J
15                                                             466 12.9 110  J    5.7 -42 329   3.4  -1.7  -3.7  2 J
16                      11.9  39   0   9.2  -1.2   7.4  1 J    486  9.5 115  J    5.6   5 247  -2.2  -5.1  -0.3  0 J
17    531 26.1  79  J    8.5  41 359   5.7  -1.2   4.8  4 J    466  9.8 106  J    6.1  15 302   2.4  -4.0   0.4  4 J
18    530 21.3  69  J   10.3  34 346   7.7  -3.3   4.6  4 J    463 10.3 125  J    6.5  14 309   3.5  -4.6   0.2  3 J
19                                                                                6.8  11 308   4.0  -5.3  -0.5  1 J
20                                                                                6.9  11 337   5.6  -2.6   0.2  3 J
21
22
23                                                             439 16.7  86  J    7.5 -26 316   4.8  -2.8  -4.9  1 J
24    494  7.4  34  J   11.6  37 330   7.9  -7.0   4.3  2 J    440 15.4  79  J    7.9 -40 311   3.6  -1.9  -5.9  3 J

                              MAY  19, 1984           140                                MAY  20, 1984           141

 1    457 15.3  96  J    7.0 -29 296   2.3  -3.2  -4.4  4 J    426  7.5  93  J    7.1 -27   1   6.1   1.3  -2.8  2 J
 2    459 13.6 134  J    6.3  28 314   2.9  -3.6   1.0  4 J    433  7.2 101  J    7.0  -1 328   5.0  -2.9  -1.2  4 J
 3    467 14.6 132  J    7.5  25 317   3.8  -5.7   1.2  3 J    432  6.1  82  J    7.0  14 338   5.5  -2.6   0.7  3 J
 4                                                             421  5.7  51  J    7.2  17 357   6.5  -0.9   1.8  3 J
 5
 6                                                             441  7.5  89  J    9.0 -29 325   5.9  -3.4  -4.6  4 J
 7                       6.9 -35 280   0.9  -4.5  -4.1  3 J    445  7.9  78  J    9.5 -12 325   6.9  -4.6  -2.3  4 J
 8    511  4.4 111  J    7.1 -28 295   2.2  -4.6  -3.2  4 J
 9    542  4.2 140  J    6.4 -21 243  -1.4  -2.6  -1.3  6 J
10    535  4.6 135  J    5.6  28 267  -0.1  -2.3   1.2  5 J    467  9.1  92  J    9.2 -30 305   4.2  -6.0  -4.3  3 J
11    528  3.7  61  J    5.5  25 156  -4.2   1.9   2.2  2 J    448  8.6 102  J    9.2  -1 328   7.0  -4.4  -0.1  4 J
12    489  5.1 113  J    4.1  -7 293   1.4  -3.2  -0.5  3 J    482  9.8 129  J    8.5  23 341   7.0  -2.4   3.1  3 J
13    473  4.3  99  J    4.9   9 319   3.4  -3.0   0.6  2 J    495 10.1 132  J    8.6   7 330   6.3  -3.6   0.8  4 J
14                       4.5  18 327   3.4  -2.3   1.2  1 J    508 10.0 139  J    8.6   2 331   5.4  -3.0   0.1  6 J
15    419  4.1  34  J    5.8  29 319   3.8  -3.5   2.4  1 J    530  9.1 203  J    9.6  51   6   4.1  -0.0   5.1  7 J
16    416  4.1  29  J    5.8  31 320   3.7  -3.5   2.4  1 J    528  9.0 232  J   10.1  56 355   5.6  -1.7   8.1  1 J
17    419  5.5  33  J    6.0 -33 338   3.2  -0.3  -4.8  1 J    513  8.9 204  J    8.6 -38 309   4.2  -4.0  -6.1  2 J
18    411  5.4  27  J    6.6 -34   3   5.1   1.2  -3.2  3 J    507  8.7 166  J    8.9 -38 327   5.5  -2.1  -5.9  3 J
19    413  6.3  28  J    7.7 -21 344   6.4  -0.9  -3.0  3 J                       9.6 -14 337   7.5  -2.4  -2.9  5 J
20    403  5.5  26  J    7.6  15 337   6.4  -3.2   0.8  2 J    500  6.9  84  J    9.6  -3 352   8.3  -0.9  -0.8  5 J
21    405  6.6  46  J    7.8  23 328   5.9  -4.5   1.3  2 J    557  7.6 227  J    9.7  16 321   5.8  -5.1   0.1  6 J
22                                                             529  8.1 187  J    9.6 -18 324   5.4  -2.7  -3.6  6 J
23    408  5.3  61  J    7.3  14 345   6.4  -2.2   0.8  3 J    533  8.0 159  J    9.5  21 309   4.3  -5.9   0.2  6 J
24    418  5.7  55  J    7.7  19 326   5.7  -4.5   0.6  3 J                      10.1  -1 329   7.5  -4.1  -2.0  5 J

                              MAY  21, 1984           142                                MAY  22, 1984           143

 1    527  8.4 161  J   10.1 -34 308   5.0  -3.8  -7.4  3 J    580  6.7 207  J    7.7  -9 321   5.1  -3.5  -2.5  4 J
 2    523  8.3 129  J   10.4 -31 309   5.2  -4.3  -6.9  4 J    571  6.5 127  J    7.5   8 336   5.9  -2.8  -0.0  4 J
 3    525  8.4 148  J   10.0   1 311   6.0  -6.7  -2.0  4 J    585  6.7 174  J    7.3  10 316   4.4  -4.4  -0.3  4 J
 4    514  8.0  94  J   10.0   5 315   6.8  -6.7  -1.0  3 J    595  6.1 165  J    7.3  -6 292   2.5  -5.9  -2.3  3 J
 5    545  8.0 169  J    9.4  16 289   2.6  -7.8   0.6  4 J
 6    518  8.3 121  J    8.9   0 322   6.0  -4.6  -0.7  5 J    583  7.9 194  J    6.5 -39  19   2.8   1.3  -2.2  5 J
 7    540  9.1 148  J   10.2  -2 302   4.7  -7.5  -1.1  5 J    593  7.5 180  J    7.4 -55 274   0.3  -3.3  -6.0  3 J
 8    549  8.8 117  J    9.4 -64 310   2.3  -2.3  -7.6  4 J
 9                       8.9 -37 290   2.4  -6.4  -5.5  1 J    584  7.1 180  J    5.8   9 303   1.7  -2.6   0.4  5 J
10    528  8.0  83  J                                          575  7.6 237  J    6.1  18 292   1.9  -4.7   1.6  3 J
11    518  8.5  75  J    9.1   6 338   7.3  -2.9   0.8  4 J
12    530  8.4 109  J    8.6 -21 317   4.7  -4.4  -2.4  5 J
13    521  8.0  90  J    8.5  -7   6   5.7   0.6  -0.7  6 J
14    533  7.8 103  J    8.5  42 314   4.0  -4.3   5.0  3 J
15    508  7.4  67  J    8.8  15 339   6.8  -2.8   1.7  4 J
16
17    601  7.9 193  J    7.3 -32 130  -3.2   4.4  -2.3  4 J
18    547  7.5 171  J    7.8 -61 337   2.5   0.2  -5.1  5 J
19
20
21    568  7.1 245  J    8.0   9 287   2.0  -6.3  -1.5  4 J    598  6.7 209  J    7.0 -26 356   5.9   0.7  -2.8  2 J
22                       8.1 -48 329   3.5  -0.1  -5.0  5 J    607  6.4 210  J    7.2   2 311   4.1  -4.5  -1.7  3 J
23    601  7.2 282  J    7.7  -6 298   2.8  -4.5  -2.7  5 J    597  5.8 173  J    7.7   6 314   5.0  -5.0  -1.4  3 J
24    588  6.4 230  J    7.7  12 307   3.9  -5.3  -0.8  4 J    610  5.3 183  J    7.9   0 307   4.5  -5.5  -2.3  2 J

                              MAY  23, 1984           144                                MAY  24, 1984           145

 1    631  5.2 160  J    7.0  26   0   4.1  -0.7   1.9  5 J    646  3.6 122  J    4.9  48 354   2.1  -1.1   2.1  4 J
 2    636  5.5 179  J    7.3   2 319   4.0  -3.3  -1.0  5 J    630  3.6  82  J    5.4  22 346   4.6  -1.7   1.4  2 J
 3    622  5.5 113  J    7.3  -7 328   5.3  -2.9  -1.7  3 J    615  3.5  76  J    6.0  14   7   5.6   0.2   1.5  1 J
 4    624  5.8 166  J    7.5   9 321   5.0  -4.2  -0.0  4 J    645  4.7 148  J    6.5  23  70   1.8   4.3   3.4  3 J
 5    633  6.7 231  J    7.2  17 358   4.6  -0.4   1.3  5 J    625  4.2  83  J    6.7  19  61   3.0   4.9   3.1  2 J
 6    625  6.3 235  J    7.5  18 316   3.3  -3.4   1.0  6 J    647  5.7 195  J    6.9  32 274   0.4  -5.7   2.5  3 J
 7    598  6.8 233  J    6.2  48 325   3.1  -2.6   4.0  3 J    651  5.5 144  J    7.4  15 277   0.8  -6.9   1.2  2 J
 8
 9
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11
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13    642  5.2 219  J    6.4  15 312   3.4  -3.8   1.4  4 J
14    634  5.4 153  J    6.5   3 334   4.4  -2.2   2.8  3 J
15    623  5.6 142  J    6.2  -5   2   5.3   0.2  -0.4  3 J
16    626  5.5  94  J    6.7 -21 357   6.1  -0.0  -2.4  1 J
17
18
19
20
21    684  3.9 176  J    5.0  24 267  -0.2  -3.9   0.2  3 J
22    678  3.9 203  J    5.0  38 283   0.6  -3.0   0.9  4 J
23    652  2.9 150  J    4.3  35 316   1.2  -1.5   0.6  4 J
24    635  3.6 116  J    4.8  -2 337   3.6  -1.4  -0.7  3 J
```

MAY 28, 1984 149

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 7.3 | -11 | 299 | 2.9 | -4.4 | -2.9 | 4 | J |
| 24 | 480 | 2.3 | 141 | J | 5.2 | 14 | 293 | 1.3 | -3.1 | -0.3 | 4 | J |

MAY 29, 1984 150

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 465 | 4.2 | 331 | L | 5.9 | 52 | 278 | 0.4 | -3.6 | 2.3 | 4 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 468 | 2.6 | 66 | J | 7.1 | 9 | 313 | 4.5 | -4.8 | 1.3 | 2 | J |
| 14 | 450 | 2.9 | 140 | J | 7.1 | -5 | 324 | 5.4 | -3.9 | -0.4 | 2 | J |
| 15 | 433 | 3.0 | 192 | J | 7.7 | -21 | 336 | 6.5 | -2.9 | -2.7 | 1 | J |
| 16 | | | | | 7.8 | -14 | 315 | 5.2 | -5.2 | -2.0 | 2 | J |
| 17 | | | | | 6.7 | -11 | 320 | 4.8 | -3.9 | -1.6 | 2 | J |
| 18 | | | | | 7.2 | 3 | 312 | 4.5 | -5.0 | -0.4 | 2 | J |
| 19 | | | | | 7.5 | -25 | 333 | 5.6 | -2.2 | -3.4 | 3 | J |
| 20 | | | | | 7.7 | -4 | 319 | 5.6 | -4.5 | -1.8 | 2 | J |
| 21 | | | | | 7.1 | 23 | 326 | 5.1 | -4.1 | 1.4 | 2 | J |
| 22 | 409 | 2.8 | 41 | J | 7.4 | 9 | 319 | 5.2 | -4.6 | -0.5 | 2 | J |
| 23 | 404 | 3.4 | 80 | J | 7.8 | 0 | 318 | 5.6 | -4.8 | -1.8 | 2 | J |
| 24 | | | | | 8.1 | -1 | 326 | 6.6 | -4.1 | -1.7 | 1 | J |

MAY 30, 1984 151

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 419 | 5.6 | 37 | J | 6.9 | 31 | 273 | 0.3 | -5.2 | 3.5 | 3 | J |
| 14 | 418 | 5.5 | 36 | J | 6.9 | 36 | 266 | -0.4 | -5.4 | 4.1 | 1 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAY 31, 1984 152

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 6.7 | 20 | 295 | 2.6 | -5.4 | 2.7 | 1 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 1, 1984 153

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 337 | 7.7 | 35 | J | 7.8 | 6 | 357 | 7.7 | -0.5 | 0.8 | 1 | J |
| 7 | 332 | 7.8 | 37 | J | 7.8 | 15 | 352 | 7.4 | -1.1 | 2.0 | 1 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | 8.3 | 28 | 358 | 7.1 | 0.0 | 3.8 | 2 | J |
| 11 | | | | | 8.9 | 19 | 322 | 6.0 | -4.5 | 3.0 | 4 | J |
| 12 | | | | | 8.6 | 1 | 312 | 5.6 | -6.1 | 0.6 | 2 | J |
| 13 | | | | | 8.5 | -3 | 316 | 5.6 | -5.4 | -0.1 | 4 | J |
| 14 | | | | | 7.0 | 15 | 321 | 4.8 | -3.8 | 1.8 | 3 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 2, 1984 154

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 374 | 14.8 | 58 | J | 9.8 | -39 | 139 | -5.5 | 6.4 | -4.1 | 3 | J |
| 2 | 376 | 15.1 | 78 | J | 9.8 | -23 | 136 | -5.8 | 6.4 | -1.8 | 4 | J |
| 3 | 388 | 10.0 | 89 | J | 10.3 | 15 | 143 | -7.8 | 5.1 | 3.9 | 2 | J |
| 4 | 391 | 10.2 | 117 | J | 9.7 | -20 | 142 | -7.0 | 5.9 | -2.1 | 2 | J |
| 5 | 397 | 10.1 | 108 | J | 9.8 | -29 | 149 | -6.7 | 4.6 | -3.8 | 4 | J |
| 6 | 396 | 10.0 | 104 | J | 9.4 | -16 | 139 | -6.5 | 5.8 | -2.0 | 3 | J |
| 7 | 393 | 9.5 | 114 | J | 9.3 | -6 | 147 | -7.7 | 5.0 | -0.8 | 1 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 429 | 11.2 | 75 | J | 8.7 | -30 | 100 | -1.3 | 6.9 | -4.9 | 2 | J |
| 12 | 413 | 11.8 | 93 | J | 8.7 | 23 | 136 | -4.4 | 4.5 | 2.2 | 5 | J |
| 13 | 390 | 12.1 | 58 | J | 9.2 | 5 | 140 | -6.4 | 5.4 | 0.3 | 4 | J |
| 14 | 381 | 13.0 | 52 | J | 9.6 | 4 | 157 | -8.4 | 3.6 | 0.5 | 3 | J |
| 15 | 376 | 13.4 | 46 | J | 10.4 | -3 | 158 | -9.2 | 3.7 | -0.5 | 3 | J |
| 16 | 393 | 15.2 | 83 | J | 10.9 | -14 | 136 | -7.3 | 7.2 | -2.1 | 3 | J |
| 17 | 370 | 15.1 | 45 | J | 11.3 | 23 | 176 | -10.3 | 0.2 | 4.4 | 2 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 3, 1984 155

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 425 | 30.2 | 162 | J | 13.1 | 56 | 105 | -1.8 | 7.6 | 9.8 | 4 | J |
| 11 | 432 | 30.5 | 180 | J | 11.5 | 10 | 105 | -2.0 | 7.6 | 0.7 | 8 | J |
| 12 | 433 | 18.2 | 111 | J | 15.0 | 17 | 127 | -5.3 | 7.2 | 2.0 | 12 | J |
| 13 | 471 | 12.4 | 148 | J | 16.4 | 15 | 126 | -4.8 | 6.8 | 1.7 | 14 | J |
| 14 | 479 | 13.3 | 160 | J | 15.8 | -64 | 120 | -3.3 | 5.1 | -13.9 | 4 | J |
| 15 | 479 | 17.1 | 186 | J | 15.0 | -32 | 117 | -5.2 | 10.2 | -7.2 | 6 | J |
| 16 | 476 | 22.4 | 125 | J | 13.3 | -2 | 118 | -6.1 | 11.6 | 0.1 | 2 | J |
| 17 | 463 | 15.4 | 55 | J | 15.2 | -36 | 126 | -7.2 | 10.9 | -7.8 | 0 | J |
| 18 | 463 | 17.6 | 56 | J | 13.7 | -47 | 121 | -4.7 | 9.4 | -8.3 | 3 | J |
| 19 | 477 | 13.0 | 166 | J | 12.7 | 10 | 147 | -9.7 | 5.6 | 3.4 | 5 | J |
| 20 | 507 | 12.3 | 177 | J | 10.4 | 19 | 141 | -6.0 | 4.0 | 3.9 | 6 | J |
| 21 | 496 | 11.8 | 140 | J | 10.1 | 9 | 152 | -8.2 | 3.7 | 2.7 | 4 | J |
| 22 | | | | | | | | | | | | |
| 23 | 497 | 10.2 | 111 | J | 9.7 | 8 | 154 | -7.9 | 3.2 | 2.4 | 4 | J |
| 24 | 503 | 10.1 | 135 | J | 9.9 | 18 | 141 | -6.7 | 4.2 | 4.3 | 4 | J |

JUN. 4, 1984 156

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 516 | 10.2 | 159 | J | 9.8 | 18 | 130 | -4.9 | 4.8 | 4.1 | 6 | J |
| 2 | 500 | 9.4 | 126 | J | 9.6 | 8 | 163 | -7.0 | 1.8 | 1.6 | 6 | J |
| 3 | 503 | 9.2 | 115 | J | 9.8 | -28 | 165 | -7.2 | 2.7 | -3.4 | 5 | J |
| 4 | 500 | 9.3 | 124 | J | 10.1 | -16 | 153 | -6.8 | 3.8 | -1.5 | 6 | J |
| 5 | 501 | 9.5 | 121 | J | 9.4 | 11 | 144 | -6.8 | 4.7 | 2.2 | 4 | J |
| 6 | 537 | 10.8 | 188 | J | 8.7 | 12 | 146 | -5.9 | 3.9 | 1.8 | 5 | J |
| 7 | 535 | 10.1 | 174 | J | 9.2 | 13 | 150 | -6.7 | 3.8 | 1.9 | 5 | J |
| 8 | 543 | 9.9 | 180 | J | 9.3 | -13 | 140 | -6.0 | 5.0 | -1.9 | 5 | J |
| 9 | 551 | 10.1 | 170 | J | 9.6 | -39 | 156 | -5.8 | 2.2 | -5.2 | 5 | J |
| 10 | 581 | 7.1 | 159 | J | 10.1 | -25 | 151 | -6.9 | 3.5 | -4.0 | 5 | J |
| 11 | 595 | 6.4 | 204 | J | 9.8 | 5 | 141 | -7.2 | 5.9 | 0.2 | 3 | J |
| 12 | 593 | 6.3 | 211 | J | 10.1 | -3 | 141 | -7.5 | 6.0 | -1.1 | 3 | J |
| 13 | 639 | 6.4 | 302 | J | 10.2 | -1 | 100 | -1.5 | 8.7 | -0.9 | 5 | J |
| 14 | 615 | 6.7 | 293 | J | 9.9 | -3 | 134 | -5.2 | 5.4 | -0.7 | 6 | J |
| 15 | 608 | 6.4 | 223 | J | 9.8 | 14 | 130 | -4.8 | 5.7 | 1.8 | 6 | J |
| 16 | 606 | 5.6 | 200 | J | 10.7 | -7 | 137 | -7.3 | 6.8 | -0.9 | 4 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 630 | 5.9 | 216 | J | 9.2 | -29 | 137 | -5.6 | 6.3 | -2.4 | 3 | J |
| 23 | 613 | 6.3 | 197 | J | 9.2 | -26 | 152 | -7.2 | 4.9 | -2.5 | 2 | J |
| 24 | 603 | 6.5 | 196 | J | 9.0 | -24 | 153 | -6.6 | 4.2 | -2.1 | 4 | J |

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OF POOR QUALITY

## 06/05/84 – 06/16/84

JUN. 5, 1984 157

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 598 | 6.4 | 208 | J | 8.7 | -20 | 162 | -7.0 | 2.9 | -1.9 | 3 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 610 | 5.5 | 201 | J | 6.6 | -29 | 138 | -3.5 | 3.2 | -2.6 | 4 | J |
| 8 | 615 | 5.2 | 175 | J | 7.1 | 25 | 114 | -2.2 | 5.1 | 2.4 | 4 | J |
| 9 | 568 | 5.5 | 75 | J | | | | | | | | |
| 10 | 586 | 6.3 | 138 | J | 6.4 | -42 | 166 | -3.4 | 0.5 | -3.2 | 4 | J |
| 11 | 570 | 6.5 | 98 | J | 6.5 | -15 | 169 | -4.9 | 0.8 | -1.4 | 4 | J |
| 12 | 586 | 6.5 | 131 | J | 6.4 | -2 | 112 | -1.9 | 4.7 | -0.7 | 4 | J |
| 13 | 577 | 7.4 | 155 | L | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 11, 1984 163

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | 5.6 | 46 | 198 | -3.1 | -0.5 | 3.5 | 3 | J |
| 11 | | | | | 5.8 | 39 | 177 | -3.9 | 0.7 | 3.1 | 3 | J |
| 12 | 617 | 3.3 | 132 | J | 5.8 | 20 | 112 | -1.9 | 4.8 | 1.1 | 2 | J |
| 13 | 616 | 2.3 | 78 | J | 5.6 | 12 | 187 | -5.3 | -0.5 | 1.2 | 0 | J |
| 14 | 559 | 3.1 | 70 | J | 6.3 | -21 | 175 | -5.2 | 0.2 | -2.0 | 3 | J |
| 15 | 568 | 3.4 | 87 | J | 6.8 | -22 | 151 | -4.5 | 2.4 | -2.3 | 4 | J |
| 16 | 616 | 3.6 | 106 | J | 6.7 | -9 | 101 | -1.1 | 5.4 | -0.9 | 4 | J |
| 17 | 577 | 3.3 | 110 | J | 6.7 | -8 | 122 | -3.2 | 5.2 | -0.6 | 3 | J |
| 18 | 581 | 3.3 | 103 | J | 6.5 | -12 | 106 | -1.6 | 5.7 | -0.6 | 2 | J |
| 19 | 567 | 3.1 | 91 | J | 6.5 | 6 | 117 | -2.6 | 4.9 | 1.5 | 3 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 13, 1984 165

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 6.3 | 4 | 27 | 5.5 | 2.6 | 1.1 | 1 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 7.3 | 4 | 172 | -6.7 | 1.0 | 0.3 | 3 | J |
| 13 | | | | | 7.2 | -15 | 166 | -6.4 | 1.3 | -2.0 | 3 | J |
| 14 | | | | | 7.1 | 15 | 157 | -6.3 | 2.9 | 1.5 | 1 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 6.6 | -7 | 165 | -5.7 | 1.6 | -0.4 | 3 | J |
| 21 | 373 | 7.9 | 24 | J | 6.8 | -7 | 163 | -5.8 | 1.9 | -0.3 | 3 | J |
| 22 | 364 | 5.8 | 27 | J | 6.4 | 3 | 161 | -5.7 | 1.8 | 0.8 | 2 | J |
| 23 | 363 | 6.3 | 36 | J | 6.8 | -5 | 146 | -5.4 | 3.6 | 0.4 | 2 | J |
| 24 | 362 | 8.1 | 37 | J | 7.3 | 4 | 145 | -5.8 | 3.8 | 1.5 | 2 | J |

JUN. 15, 1984 167

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 392 | 16.4 | 43 | J | 8.1 | -18 | 114 | -3.1 | 7.1 | -1.8 | 1 | J |
| 5 | 403 | 26.5 | 37 | J | 4.0 | 12 | 109 | -1.0 | 2.9 | 0.8 | 4 | J |
| 6 | 407 | 35.4 | 32 | J | 2.2 | 21 | 155 | -1.6 | 0.8 | 0.7 | 2 | J |
| 7 | 410 | 43.1 | 26 | J | 3.3 | 23 | 122 | -1.5 | 2.5 | 1.1 | 2 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 466 | 16.0 | 189 | J | 14.1 | 9 | 311 | 8.9 | -9.7 | 4.0 | 3 | J |
| 13 | 463 | 17.0 | 173 | J | 13.7 | -6 | 315 | 9.0 | -9.1 | 0.2 | 5 | J |
| 14 | 439 | 11.8 | 80 | J | 18.4 | 0 | 316 | 13.2 | -12.6 | 1.7 | 3 | J |
| 15 | 422 | 15.4 | 90 | J | 16.9 | -5 | 319 | 12.6 | -11.0 | -0.4 | 2 | J |
| 16 | 479 | 14.7 | 244 | J | 15.0 | -14 | 321 | 11.0 | -9.0 | -3.2 | 4 | J |
| 17 | 537 | 15.5 | 375 | J | 17.6 | 17 | 314 | 10.4 | -10.8 | 4.3 | 8 | J |
| 18 | 521 | 15.7 | 329 | J | 18.6 | 14 | 307 | 10.0 | -13.6 | 3.0 | 7 | J |
| 19 | 511 | 15.8 | 275 | J | 19.2 | 14 | 317 | 13.3 | -13.0 | 2.7 | 4 | J |
| 20 | 581 | 19.3 | 745 | J | 14.2 | 16 | 314 | 7.9 | -8.7 | 1.7 | 8 | J |
| 21 | 601 | 16.8 | 514 | J | 14.2 | 47 | 318 | 6.1 | -7.4 | 7.4 | 7 | J |
| 22 | 592 | 16.2 | 447 | J | 13.7 | 25 | 322 | 7.4 | -6.6 | 2.8 | 9 | J |
| 23 | 624 | 16.4 | 581 | J | 14.9 | 29 | 282 | 2.5 | -13.2 | 3.6 | 5 | J |
| 24 | | | | | | | | | | | | |

JUN. 10, 1984 162

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 656 | 2.4 | 166 | J | 7.4 | -12 | 131 | -3.9 | 4.3 | -1.8 | 4 | J |
| 11 | | | | | 7.2 | 9 | 157 | -6.0 | 2.7 | 0.7 | 3 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 12, 1984 164

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 509 | 3.0 | 46 | J | 6.2 | 1 | 170 | -5.9 | 1.0 | 0.0 | 1 | J |
| 9 | 593 | 3.7 | 114 | J | 6.3 | -3 | 75 | 1.3 | 4.9 | -0.8 | 4 | J |
| 10 | 532 | 3.3 | 86 | J | 6.1 | 9 | 136 | -3.6 | 3.5 | 0.3 | 3 | J |
| 11 | 552 | 3.3 | 96 | J | 6.4 | 13 | 102 | -1.1 | 5.2 | 0.4 | 3 | J |
| 12 | 534 | 3.1 | 101 | J | 6.2 | -2 | 122 | -2.8 | 4.4 | -0.9 | 3 | J |
| 13 | 565 | 3.4 | 89 | J | 6.6 | -14 | 117 | -2.5 | 4.6 | -2.0 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | 473 | 3.3 | 77 | J | 6.2 | 2 | 166 | -5.9 | 1.5 | 0.1 | 1 | J |
| 16 | 471 | 3.6 | 65 | J | 6.8 | 9 | 173 | -6.6 | 0.8 | 1.0 | 1 | J |
| 17 | 473 | 3.7 | 60 | J | 6.5 | -2 | 173 | -6.3 | 0.8 | -0.2 | 1 | J |
| 18 | 468 | 3.0 | 49 | J | 5.9 | -3 | 168 | -5.6 | 1.2 | -0.2 | 1 | J |
| 19 | 465 | 3.2 | 45 | J | 6.4 | 4 | 163 | -5.9 | 1.7 | 0.7 | 1 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 6.7 | 2 | 168 | -6.5 | 1.3 | 0.6 | 2 | J |
| 24 | | | | | 7.1 | 20 | 167 | -4.9 | 0.6 | 2.0 | 5 | J |

JUN. 14, 1984 166

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 365 | 7.9 | 31 | J | 6.8 | 1 | 132 | -4.3 | 4.7 | 1.2 | 2 | J |
| 2 | 369 | 8.0 | 21 | J | 6.9 | -6 | 118 | -3.1 | 5.9 | 0.5 | 1 | J |
| 3 | 373 | 8.4 | 21 | J | 7.0 | -17 | 125 | -3.8 | 5.7 | -1.2 | 1 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 370 | 7.7 | 23 | J | 7.2 | -14 | 113 | -2.5 | 5.6 | -2.4 | 3 | J |
| 10 | 367 | 8.4 | 23 | J | 7.4 | 17 | 99 | -1.1 | 7.0 | 1.0 | 2 | J |
| 11 | 365 | 8.7 | 23 | J | 7.5 | 11 | 108 | -2.2 | 7.0 | 0.2 | 2 | J |
| 12 | 360 | 7.4 | 29 | J | 6.9 | 0 | 121 | -3.3 | 5.5 | -1.0 | 2 | J |
| 13 | 369 | 8.0 | 29 | J | 6.6 | 15 | 118 | -2.7 | 5.3 | 0.7 | 3 | J |
| 14 | 370 | 8.2 | 22 | J | 6.7 | 13 | 109 | -2.1 | 6.2 | 0.7 | 1 | J |
| 15 | 363 | 7.3 | 33 | -J | 6.4 | 13 | 117 | -2.5 | 5.0 | 0.8 | 3 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 16, 1984 168

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 702 | 5.5 | 316 | J | 8.0 | -64 | 261 | -0.5 | -3.5 | -5.6 | 5 | J |
| 9 | 706 | 6.0 | 303 | J | 7.3 | 21 | 335 | 2.8 | -1.1 | 1.4 | 6 | J |
| 10 | 698 | 6.5 | 391 | J | 6.6 | 24 | 11 | 4.5 | 1.2 | 1.9 | 4 | J |
| 11 | 686 | 5.1 | 222 | J | 6.8 | 6 | 344 | 5.5 | -1.4 | 0.9 | 3 | J |
| 12 | 692 | 4.7 | 203 | J | 6.7 | -13 | 347 | 4.9 | -1.3 | -0.9 | 4 | J |
| 13 | 706 | 3.8 | 199 | J | 7.4 | -3 | 272 | 0.3 | -7.1 | 0.9 | 2 | J |
| 14 | 591 | 4.7 | 177 | J | 7.3 | 2 | 357 | 6.9 | -0.3 | 0.3 | 2 | J |
| 15 | 614 | 4.8 | 162 | J | 7.1 | 19 | 353 | 6.3 | -0.6 | 2.2 | 2 | J |
| 16 | 637 | 4.2 | 220 | J | 6.0 | 16 | 293 | 1.7 | -3.9 | 1.4 | 4 | J |
| 17 | 612 | 3.5 | 179 | J | 4.7 | -9 | 13 | 3.9 | 0.9 | -0.6 | 2 | J |
| 18 | 610 | 3.3 | 166 | J | 4.9 | -17 | 338 | 3.9 | -1.5 | -1.4 | 2 | J |
| 19 | 619 | 4.1 | 121 | J | 5.2 | 8 | 306 | 2.6 | -3.6 | 0.1 | 3 | J |
| 20 | 634 | 4.9 | 133 | J | 4.1 | 35 | 289 | 0.9 | -2.9 | 1.4 | 2 | J |
| 21 | 628 | 4.9 | 108 | J | 4.6 | 11 | 297 | 1.8 | -3.7 | -0.0 | 2 | J |
| 22 | 627 | 5.0 | 101 | J | 4.0 | -18 | 295 | 1.5 | -2.9 | -1.9 | 1 | J |
| 23 | 621 | 4.8 | 93 | J | 4.1 | -29 | 301 | 1.8 | -2.4 | -2.6 | 1 | J |
| 24 | 613 | 3.9 | 76 | J | 4.9 | -2 | 252 | -1.4 | -4.1 | -1.1 | 2 | J |

# 06/17/84 – 06/29/84

JUN. 17, 1984 169

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 608 | 4.6 | 81 | J | 6.0 | 33 | 203 | -4.2 | -2.4 | 2.6 | 2 | J |
| 2 | 586 | 6.2 | 108 | J | 3.7 | 40 | 170 | -1.8 | 0.0 | 1.6 | 3 | J |
| 3 | 583 | 5.6 | 82 | J | 4.7 | 30 | 155 | -3.5 | 1.3 | 2.4 | 1 | J |
| 4 | 578 | 6.4 | 78 | J | 4.3 | 20 | 164 | -3.9 | 1.0 | 1.6 | 0 | J |
| 5 | 571 | 6.7 | 75 | J | 4.4 | 26 | 165 | -3.6 | 0.9 | 1.9 | 1 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 515 | 10.9 | 90 | J | 4.9 | 56 | 212 | -2.0 | -0.6 | 3.7 | 2 | J |
| 14 | 503 | 8.9 | 98 | J | 5.2 | 2 | 205 | -3.9 | -1.8 | 0.4 | 3 | J |
| 15 | 493 | 8.2 | 102 | J | 4.5 | -10 | 224 | -2.4 | -2.4 | -0.3 | 3 | J |
| 16 | 504 | 5.6 | 104 | J | 6.3 | 28 | 186 | -5.3 | -0.4 | 2.8 | 2 | J |
| 17 | 510 | 5.3 | 116 | J | 5.1 | 4 | 176 | -4.6 | 0.3 | 0.3 | 2 | J |
| 18 | 515 | 4.8 | 95 | J | 4.7 | 3 | 163 | -3.8 | 1.1 | 0.3 | 3 | J |
| 19 | 532 | 4.9 | 119 | J | 4.0 | -3 | 131 | -2.5 | 2.9 | 0.2 | 1 | J |
| 20 | 514 | 6.7 | 95 | J | 3.1 | -20 | 186 | -1.6 | -0.1 | -0.6 | 3 | J |
| 21 | 507 | 7.7 | 116 | L | | | | | | | | |
| 22 | 499 | 7.0 | 123 | L | 4.5 | 34 | 179 | -3.2 | -0.4 | 2.1 | 2 | J |
| 23 | 496 | 6.8 | 133 | L | 4.1 | 41 | 198 | -2.3 | -1.2 | 1.9 | 2 | J |
| 24 | 498 | 6.2 | 132 | L | | | | | | | | |

JUN. 18, 1984 170

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 509 | 40.3 | 77 | L | | | | | | | | |
| 6 | 499 | 40.4 | 114 | L | | | | | | | | |
| 7 | 511 | 46.8 | 99 | L | | | | | | | | |
| 8 | 497 | 49.7 | 125 | L | | | | | | | | |
| 9 | 532 | 32.4 | 182 | L | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 24, 1984 176

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | 7.2 | -50 | 301 | 2.3 | -3.9 | -5.2 | 2 | J |
| 6 | 505 | 5.1 | 193 | J | 6.3 | 55 | 138 | -2.5 | 2.6 | 4.6 | 3 | J |
| 7 | | | | | | | | | | | | |
| 8 | 469 | 4.2 | 147 | J | 5.6 | 53 | 70 | 1.1 | 3.7 | 3.7 | 1 | J |
| 9 | 450 | 4.7 | 150 | J | 6.5 | 24 | 6 | 4.8 | 0.9 | 2.0 | 4 | J |
| 10 | 441 | 4.4 | 200 | J | 5.9 | -12 | 324 | 4.1 | -3.2 | -0.4 | 3 | J |
| 11 | 450 | 4.5 | 156 | J | 6.8 | -19 | 307 | 3.6 | -5.1 | -0.8 | 3 | J |
| 12 | 455 | 5.3 | 123 | J | 6.1 | 50 | 288 | 0.7 | -1.4 | 3.1 | 5 | J |
| 13 | 406 | 5.4 | 97 | J | 6.0 | 19 | 359 | 5.6 | 0.3 | 1.9 | 1 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 25, 1984 177

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 6.9 | -16 | 295 | 2.8 | -5.7 | -2.6 | 2 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | 7.5 | 12 | 292 | 2.1 | -5.0 | 1.6 | 5 | J |
| 7 | 400 | 8.6 | 67 | J | 7.8 | -10 | 301 | 3.6 | -6.0 | -0.5 | 3 | J |
| 8 | 401 | 7.6 | 70 | J | 6.5 | 51 | 341 | 3.1 | -0.4 | 4.2 | 4 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | 413 | 7.5 | 44 | J | 7.3 | -22 | 289 | 2.1 | -6.4 | -1.1 | 2 | J |
| 14 | 416 | 8.0 | 75 | J | 6.7 | -9 | 292 | 1.7 | -4.2 | 0.2 | 5 | J |
| 15 | 411 | 8.1 | 75 | J | 6.6 | -4 | 288 | 1.6 | -4.9 | 0.5 | 4 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 26, 1984 178

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 9.1 | 22 | 307 | 4.9 | -6.8 | 2.3 | 3 | J |
| 2 | 424 | 8.4 | 43 | J | 9.0 | -17 | 297 | 3.8 | -7.1 | -3.4 | 2 | J |
| 3 | 416 | 8.1 | 34 | J | 9.1 | 2 | 303 | 4.6 | -7.0 | -0.2 | 3 | J |
| 4 | 413 | 7.6 | 36 | J | 8.8 | 9 | 301 | 4.0 | -6.7 | 1.1 | 4 | J |
| 5 | 421 | 7.2 | 37 | J | 8.9 | 7 | 288 | 2.4 | -7.2 | 1.2 | 4 | J |
| 6 | 422 | 6.4 | 36 | J | 9.2 | 19 | 292 | 3.2 | -7.7 | 3.6 | 1 | J |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 422 | 7.9 | 119 | J | 7.7 | -29 | 300 | 3.3 | -6.3 | -2.3 | 2 | J |
| 10 | 416 | 7.2 | 70 | J | 7.6 | 1 | 318 | 5.3 | -4.6 | 1.3 | 3 | J |
| 11 | 414 | 7.4 | 89 | J | 7.7 | 13 | 328 | 5.5 | -3.0 | 2.3 | 4 | J |
| 12 | 407 | 8.0 | 94 | J | 8.0 | 12 | 340 | 6.1 | -1.8 | 1.9 | 5 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 396 | 7.7 | 58 | J | 9.5 | 19 | 346 | 8.5 | -1.6 | 3.3 | 2 | J |
| 16 | 394 | 7.3 | 59 | J | 8.8 | 20 | 356 | 7.8 | -0.2 | 2.9 | 3 | J |
| 17 | 387 | 6.8 | 53 | J | 8.7 | 22 | 349 | 7.6 | -1.3 | 3.2 | 2 | J |
| 18 | 390 | 7.3 | 71 | J | 8.6 | -2 | 331 | 6.5 | -3.6 | -0.3 | 4 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 393 | 6.8 | 76 | J | 7.7 | -31 | 328 | 5.4 | -2.8 | -4.3 | 2 | J |
| 22 | 405 | 6.7 | 92 | J | 7.4 | -19 | 309 | 4.2 | -4.8 | -3.1 | 2 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUN. 27, 1984 179

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 416 | 6.1 | 72 | J | 7.7 | -37 | 278 | 0.7 | -4.5 | -4.6 | 4 | J |
| 2 | 420 | 5.6 | 44 | J | 8.0 | -40 | 290 | 2.0 | -5.0 | -5.5 | 2 | J |
| 3 | 422 | 6.0 | 49 | J | 8.4 | -47 | 266 | -0.4 | -5.1 | -6.2 | 2 | J |
| 4 | 421 | 5.9 | 53 | J | 8.1 | -32 | 261 | -1.0 | -6.1 | -4.0 | 3 | J |
| 5 | 387 | 6.0 | 65 | J | 8.0 | -46 | 4 | 5.3 | 0.2 | -5.5 | 3 | J |
| 6 | 391 | 6.5 | 70 | J | 8.1 | -16 | 302 | 4.0 | -6.6 | -1.6 | 2 | J |
| 7 | 391 | 6.1 | 64 | J | 8.2 | -4 | 308 | 4.7 | -6.1 | 0.3 | 3 | J |
| 8 | | | | | 8.2 | -15 | 306 | 4.7 | -6.7 | -0.9 | 1 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 377 | 5.3 | 29 | J | 8.4 | -19 | 323 | 6.3 | -5.3 | -1.4 | 1 | J |
| 13 | 375 | 5.4 | 40 | J | 8.6 | -12 | 330 | 7.3 | -4.5 | -0.7 | 1 | J |
| 14 | 364 | 6.8 | 47 | J | 8.6 | 14 | 346 | 7.9 | -1.5 | 2.4 | 2 | J |
| 15 | 358 | 6.9 | 49 | J | 8.9 | 16 | 347 | 8.2 | -1.4 | 2.7 | 1 | J |
| 16 | 360 | 6.8 | 53 | J | 8.6 | 15 | 342 | 7.8 | -2.2 | 2.5 | 1 | J |
| 17 | 364 | 5.7 | 65 | J | 8.9 | 30 | 360 | 7.6 | 0.3 | 4.4 | 1 | J |
| 18 | 363 | 7.5 | 86 | J | 7.6 | 23 | 351 | 6.8 | -1.1 | 2.9 | 1 | J |
| 19 | 360 | 7.5 | 80 | J | 7.5 | 30 | 352 | 6.4 | -1.1 | 3.7 | 1 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 362 | 7.5 | 78 | J | 7.9 | 8 | 328 | 6.3 | -4.1 | 0.4 | 3 | J |
| 23 | 351 | 7.3 | 51 | J | 8.2 | -1 | 333 | 6.9 | -3.5 | -0.7 | 3 | J |
| 24 | 351 | 7.4 | 51 | J | 8.7 | -6 | 322 | 6.4 | -4.8 | -1.6 | 3 | J |

JUN. 28, 1984 180

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 7.6 | 40 | J | 8.9 | -25 | 280 | 1.4 | -7.2 | -4.7 | 2 | J |
| 2 | 393 | 7.6 | 37 | J | 9.0 | -34 | 271 | 0.1 | -6.7 | -5.6 | 2 | J |
| 3 | 373 | 8.7 | 45 | J | 8.8 | -36 | 303 | 3.6 | -5.2 | -5.1 | 3 | J |
| 4 | 363 | 8.7 | 44 | J | 9.0 | -35 | 309 | 4.4 | -5.4 | -5.0 | 3 | J |
| 5 | 368 | 9.0 | 31 | J | 9.5 | -40 | 303 | 3.8 | -6.2 | -5.6 | 2 | J |
| 6 | 376 | 9.7 | 25 | J | 9.6 | -45 | 276 | 0.7 | -7.4 | -6.1 | 1 | J |
| 7 | 381 | 10.5 | 30 | J | 9.9 | -41 | 270 | -0.0 | -8.3 | -5.3 | 1 | J |
| 8 | 352 | 10.0 | 42 | J | 9.5 | -33 | 318 | 5.7 | -6.0 | -3.9 | 3 | J |
| 9 | 362 | 10.4 | 42 | J | 9.5 | -36 | 310 | 4.7 | -6.6 | -3.9 | 3 | J |
| 10 | 377 | 9.0 | 44 | J | 10.2 | -39 | 282 | 1.6 | -8.8 | -4.1 | 3 | J |
| 11 | 375 | 8.9 | 33 | J | 10.0 | -41 | 280 | 1.3 | -8.8 | -4.3 | 2 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 380 | 28.4 | 42 | J | 6.9 | -24 | 318 | 4.4 | -3.7 | -3.0 | 2 | J |
| 21 | 394 | 28.6 | 47 | J | 6.4 | -68 | 199 | -1.8 | -0.0 | -4.8 | 4 | J |
| 22 | 386 | 28.8 | 37 | J | 7.7 | -21 | 148 | -6.0 | 4.1 | -2.1 | 2 | J |
| 23 | 375 | 27.6 | 25 | J | 8.7 | -38 | 154 | -6.1 | 3.8 | -4.8 | 1 | J |
| 24 | 376 | 24.9 | 27 | J | 10.7 | -33 | 148 | -7.5 | 5.5 | -5.0 | 2 | J |

JUN. 29, 1984 181

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 381 | 34.1 | 42 | J | 8.5 | -10 | 137 | -5.9 | 5.6 | -0.7 | 4 | J |
| 2 | 387 | 21.1 | 78 | J | 12.4 | -14 | 129 | -6.7 | 8.5 | -1.9 | 6 | J |
| 3 | 392 | 16.2 | 94 | J | 12.6 | 21 | 120 | -5.6 | 9.5 | 4.8 | 4 | J |
| 4 | 411 | 16.0 | 92 | J | 13.1 | 30 | 111 | -3.8 | 9.8 | 6.1 | 5 | J |
| 5 | 414 | 13.6 | 100 | J | 13.2 | 25 | 123 | -5.7 | 9.1 | 4.4 | 7 | J |
| 6 | 410 | 11.8 | 90 | J | 10.6 | 39 | 132 | -5.3 | 6.5 | 5.7 | 3 | J |
| 7 | 413 | 10.2 | 75 | J | 11.0 | 15 | 147 | -8.3 | 5.7 | 1.8 | 4 | J |
| 8 | 422 | 11.4 | 88 | J | 10.3 | 41 | 151 | -6.3 | 4.6 | 5.4 | 4 | J |
| 9 | 428 | 11.0 | 78 | J | 11.6 | 21 | 122 | -5.6 | 9.6 | 1.8 | 3 | J |
| 10 | 474 | 11.5 | 126 | J | 8.4 | 38 | 110 | -0.6 | 2.0 | 0.9 | 8 | J |
| 11 | 487 | 10.8 | 173 | J | 6.7 | 5 | 109 | -1.6 | 4.6 | -0.9 | 5 | J |
| 12 | 487 | 9.5 | 150 | J | 7.2 | 14 | 168 | -5.3 | 1.5 | 1.0 | 4 | J |
| 13 | 502 | 9.5 | 113 | J | 6.9 | 25 | 120 | -3.1 | 5.9 | 1.4 | 1 | J |
| 14 | 496 | 9.4 | 134 | J | 6.3 | 11 | 138 | -3.9 | 3.7 | 0.2 | 3 | J |
| 15 | 485 | 9.1 | 143 | J | 7.1 | 21 | 138 | -4.6 | 4.6 | 1.5 | 3 | J |
| 16 | 493 | 11.6 | 123 | J | 5.9 | 31 | 122 | -2.6 | 4.6 | 2.4 | 1 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
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**ORIGINAL PAGE IS
OF POOR QUALITY**

06/30/84 – 07/11/84

```
HR    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF      VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000  SC   MAGN LAT LON                     SC                     1000  SC   MAGN LAT LON                     SC

                           JUN. 30, 1984                 182                                  JUL.  5, 1984                187

 1
 2
 3
 4                                                                 632  9.1 368  L
 5
 6
 7                                                                 558  7.9 247  L
 8    508  4.3  50  J     8.4 -12 173  -8.1   0.6  -1.9  1  J
 9    505  4.3  52  J     8.5 -17 186  -8.0  -1.4  -2.2  1  J
10    506  3.8  48  J     7.8 -21 181  -7.1  -0.9  -2.6  1  J      517  6.5 464  L
11    508  4.6  52  J     7.6 -17 176  -7.3  -0.1  -2.3  1  J
12    500  5.1  55  J     7.7 -19 178  -7.3  -0.5  -2.5  1  J
13    499  5.1  62  J     7.9 -19 177  -7.5  -0.3  -2.6  1  J
14
15
16
17
18
19
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22
23
24

                           JUL.  6, 1984                 188                                  JUL.  7, 1984                189

 1                                                                 514  4.1  71  J     5.7  13 139  -3.9   3.3   1.4  2  J
 2
 3
 4    524  3.7 102  J     7.8  -8 139  -5.4   4.6  -1.2  3  J
 5                        7.6 -13 137  -5.1   4.5  -2.1  2  J
 6
 7    509  5.9 104  J     7.5 -43 154  -4.7   1.3  -5.2  2  J
 8    502  5.2  98  J     7.7   4 146  -6.1   4.1  -0.5  2  J
 9    496  5.3  97  J     7.5   5 142  -5.7   4.4  -0.6  2  J
10    554  4.0 144  J     7.6  23 159  -6.3   3.2   2.0  2  J
11    573  4.4 168  J     7.5  22 118  -3.1   6.4   0.6  2  J
12    581  4.8 189  J     7.4  24 108  -1.7   5.8   0.6  4  J                          6.0  20 143  -4.5   3.9   0.8  1  J
13    574  4.7 186  J     7.0  19 106  -1.5   5.5   0.2  4  J                          5.9  14 139  -3.7   3.5   0.1  3  J
14    597  4.7 182  J     6.3 -13  61   2.3   3.6  -2.2  4  J
15                        6.3  44  33   3.4   3.1   3.2  3  J                          6.1   1  95  -0.4   4.7  -1.1  4  J
16                        5.7  25 103  -1.1   5.1   1.3  2  J                          6.0 -15 168  -4.3   0.7  -1.3  4  J
17                                                                                     6.3  19  93  -0.3   5.2   1.0  3  J
18
19
20
21                                                                                     6.7 -14  68   1.7   4.4  -0.9  5  J
22    516  4.8 136  L     5.8 -40 191  -4.1  -0.5  -3.6  2  J                          6.8   6  73   1.9   6.2   1.2  2  J
23    530  4.2  82  J     5.9 -16 126  -2.7   3.8  -0.9  3  J
24    539  4.1 101  J     5.7  17 119  -1.6   2.8   1.3  4  J

                           JUL.  8, 1984                 190                                  JUL.  9, 1984                191

 1                                                                 435  6.6 114  J     6.2 -25 129  -2.8   3.6  -1.9  4  J
 2                                                                 447  5.7  81  J     6.2 -39 117  -1.8   3.6  -3.1  3  J
 3                                                                 429  5.8  63  J     6.1 -27 137  -3.3   3.0  -2.3  4  J
 4    462  4.5  75  J     6.8  52 130  -2.3   3.0   4.4  4  J      457  5.9  76  J     6.1 -45  99  -0.6   3.8  -4.4  2  J
 5    444  4.3  72  J     6.7  11 147  -4.1   2.8   0.6  4  J      426  5.5  72  J     5.6 -50 143  -2.6   1.5  -4.0  3  J
 6    450  4.3  67  J     6.7  13 130  -3.9   4.9   0.6  2  J      441  5.9 100  J     5.6 -11 117  -2.1   3.9  -1.6  3  J
 7    431  4.1  67  J     6.7   5 143  -4.9   3.7  -0.3  3  J      444  6.1  87  J     5.9 -19 113  -1.6   3.3  -2.2  4  J
 8    432  4.1  53  J     6.6 -12 166  -5.4   1.0  -1.5  3  J
 9    462  4.8  84  J     6.5  26 188  -2.8   0.0   1.4  6  J
10    448  4.8  79  J     6.4  35 209  -4.0  -1.1   3.8  3  J      428  5.5  69  J     5.9 -32 117  -2.1   2.9  -4.0  2  J
11    455  4.8  87  J     6.2   1 160  -3.8   1.3  -0.4  5  J      425  5.5  77  J     5.3 -31 133  -2.6   1.8  -3.1  3  J
12    468  4.8  76  J     6.0  24 125  -2.1   3.4   0.5  4  J      418  5.3  64  J     5.5 -21 205  -4.1  -2.4  -1.0  3  J
13    476  4.9  67  J     6.2   5  93  -0.3   5.5  -1.4  2  J      415  5.5  55  J     5.6  -1 208  -4.3  -2.2   0.7  3  J
14    478  4.8  60  J     6.2  -8  93  -0.3   5.2  -2.5  2  J      408  5.4  75  J     5.5 -19 175  -4.6  -0.1  -1.6  2  J
15    441  4.8  88  J     5.9  17 155  -4.0   2.1   0.8  4  J      407  5.7  80  J     5.6   0 157  -4.0   1.6  -0.4  3  J
16    433  4.9  72  J     5.9  -7 153  -4.2   2.0  -1.0  3  J      436  6.1  88  J     5.5  19  92  -0.1   3.6   0.4  4  J
17    456  5.2  80  J     5.9  11 124  -2.7   4.1   0.4  3  J      458  8.8 129  J     7.1  70 116  -0.5   1.6   3.1  6  J
18    452  5.3 100  J     5.3 -10 131  -2.5   2.8  -0.9  3  J      465 11.3 201  J     8.1  12 113  -2.3   5.4   0.7  5  J
19    436  5.1  92  J     6.0  11 139  -3.9   3.4   0.9  3  J      453 11.6 120  J     8.8  66 171  -2.9   0.7   6.6  5  J
20    466  6.7 170  J     6.0  35 112  -1.4   3.4   2.7  4  J      447 11.4 102  J     8.2  67 143  -2.0   1.4   6.0  5  J
21    440  5.7  96  J     6.1  12 121  -2.8   4.5   1.4  2  J      445 11.3 143  J     7.3   8 114  -1.9   4.2   0.9  6  J
22    453  5.5  63  J     6.4 -53 113  -1.4   3.8  -4.6  2  J      431  9.9 131  J     8.4 -16 116  -3.3   7.0  -1.7  3  J
23    452  5.4  59  J     6.6 -46 113  -1.7   4.5  -4.2  2  J      419  9.5  93  J     7.9  23 135  -4.6   4.3   3.1  4  J
24    449  5.8  75  J     6.5 -57 129  -2.2   3.1  -5.1  2  J      428 10.3 110  J     7.9  39 113  -1.9   4.2   4.3  5  J

                           JUL. 10, 1984                 192                                  JUL. 11, 1984                193

 1    429  9.8  79  J     9.8   0 107  -2.5   8.3   0.4  4  J      412  5.3  48  J     8.8  -6 154  -7.7   3.8  -0.7  2  J
 2    429  9.5  77  J    10.2  -5 100  -1.6   9.1  -0.7  4  J      411  4.8  50  J     8.8  -5 156  -7.9   3.5  -0.7  1  J
 3    427  9.5  64  J    10.2  -7  90   0.0   9.8  -1.5  2  J      394  5.1  61  J     8.5 -11 161  -7.8   2.6  -1.7  2  J
 4    418 10.3  47  J     9.7   1 101  -1.5   7.6  -0.4  6  J      391  5.5  64  J     8.2  -6 182  -7.7  -0.3  -0.8  3  J
 5    413 11.3  56  J     9.6  10 105  -2.2   8.3   0.5  4  J      384  5.8  60  J     8.1  -2 164  -7.5   2.1  -0.6  2  J
 6    410  9.9  63  J    10.0  10 105  -2.1   8.1   0.0  5  J      387  5.3  70  J     7.6  -4 164  -7.1   1.9  -0.9  1  J
 7    442  7.4 192  J     8.4  39 129  -3.3   4.9   3.2  5  J      379  4.7  61  J     7.7  -2 164  -7.3   2.0  -0.7  1  J
 8                                                                 375  4.3  47  J     6.8   3 174  -6.6   0.8   0.1  1  J
 9                                                                 373  4.1  36  J     6.6   2 178  -6.4   0.3   0.1  1  J
10                                                                 374  3.9  39  J     6.2   0 172  -6.0   0.8  -0.3  1  J
11
12                                                                 389  4.8  35  J     7.0 -44 116  -2.1   2.4  -6.0  1  J
13    454  6.7  82  J     8.7 -28 173  -6.1  -0.4  -3.3  5  J      366  5.0  46  J     6.8 -30 145  -4.8   2.0  -4.3  1  J
14    446  6.5  84  J     8.7 -36 177  -6.5  -1.1  -4.6  3  J      372  5.8  37  J     6.9 -37 149  -4.4   1.3  -4.6  2  J
15                                                                 388  8.1  40  J     7.4 -56 130  -2.4   1.3  -6.2  3  J
16                                                                 374  8.5  34  J     8.0 -44 137  -4.1   2.5  -6.1  2  J
17    455  6.5  91  J     8.2 -37 202  -5.5  -2.9  -4.1  3  J
18    447  6.5 114  J     7.8 -23 146  -4.9   3.0  -2.8  4  J
19    436  6.8 113  J     8.0 -28 176  -5.8   0.3  -3.1  4  J      378  8.7  37  J     8.4 -45 156  -4.5   1.8  -5.0  5  J
20    417  6.5  86  J     7.9  15 173  -6.5   0.8   1.8  4  J      383  9.6  36  J     8.9 -48 124  -3.2   4.7  -6.3  3  J
21    409  5.7  45  J     7.6   7 187  -7.1  -0.9   0.8  2  J      378  9.5  41  J     9.2 -39 145  -5.5   4.1  -5.3  3  J
22    408  5.9  42  J     7.8   0 161  -7.0   2.4   0.2  2  J      368  9.5  49  J     9.3 -24 160  -7.7   3.0  -3.5  3  J
23    416  5.9  53  J     7.7 -33 173  -6.1   1.0  -3.9  3  J
24    415  5.2  53  J     8.7 -22 164  -7.1   2.2  -2.9  3  J
```

# 07/12/84 – 07/24/84

```
HR      VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM  BYGSM BZGSM SG IMF   VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM  BYGSM BZGSM SG IMF
                 1000  SC   MAGN LAT LON                       SC           1000  SC   MAGN LAT LON                       SC

                            JUL. 12, 1984                   194                          JUL. 13, 1984                   195

  1     408 12.3  67  J    6.2 -64 162  -2.3    0.9  -4.8  4  J      423 13.0 177  J   12.5  54 322   5.5   -4.6   9.5  3  J
  2     410  8.4  46  J    8.3 -43 223  -3.7   -3.5  -4.8  5  J
  3     412 13.3  83  J    6.4 -41 222  -2.1   -2.0  -2.4  5  J
  4     418 22.9  70  J    3.5  38  53   1.3    1.9   1.6  2  J      429 22.0  67  J   15.2 -32 264  -1.3  -13.3  -6.7  3  J
  5     416 22.8  52  J    4.1  47  38   1.9    1.8   2.3  2  J      396 17.6  75  J
  6     408 17.3  66  J    6.6 -37 122  -2.2    2.8  -3.7  5  J      409 17.8  73  J
  7     412 13.5  70  J    6.4  12 133  -0.4    1.6  -0.0  6  J      430 37.3  79  J
  8     406 10.8  52  J    7.3   3 284   1.7   -6.6   2.3  1  J      427 37.5 145  J
  9     409  9.8  44  J    7.0  13 285   1.7   -5.4   3.4  2  J
 10     411 10.4  65  J    5.7  27 277   0.4   -2.8   3.0  4  J
 11     397 10.6  94  J    5.6  19  29   3.5    2.3   0.6  4  J
 12     409  6.4  28  J    8.7  28 290   2.6   -5.2   6.3  1  J
 13     406  7.0  29  J    8.4  40 288   2.0   -3.8   7.1  1  J
 14
 15
 16
 17     419  7.0 101  J    8.5  41 297   2.8   -4.6   6.3  2  J
 18
 19
 20
 21     368  7.1  67  J    8.7  -7 327   7.2   -4.7  -1.2  1  J
 22     381  8.2 108  J    8.8  12 329   6.5   -4.0   1.4  4  J
 23     399 12.2 160  J   11.4  15 337   6.7   -2.9   1.8  8  J
 24     391 11.8 136  J   12.9  30 349   8.9   -2.0   5.2  7  J

                            JUL. 19, 1984                   201                          JUL. 20, 1984                   202

  1
  2
  3
  4                        4.9  -1 280   0.8   -4.4   0.5  2  J
  5                        4.8  -4 302   2.2   -3.5   0.4  3  J
  6
  7                                                                  540  4.4 117  L    5.7 -15 336   4.3   -2.2  -0.7  3  J
  8                        5.1   9 287   1.2   -3.5   1.9  3  J      556  4.2  90  J    6.1  -6 329   3.8   -2.3   0.3  4  J
  9                        4.7  -7 305   2.0   -2.8   0.6  3  J      554  4.3  96  J    5.7  14 344   3.5   -0.6   1.2  4  J
 10                        4.3 -11 296   1.7   -3.5   0.6  2  J      551  4.3 140  J    5.6  -9  18   4.4    1.0  -1.2  3  J
 11                        4.1  25 325   2.5   -1.0   2.0  2  J      553  4.1 106  J    5.8 -29  33   3.8    1.2  -3.3  3  J
 12                        4.2   7 319   2.7   -2.0   1.3  2  J      548  4.0 125  J    5.8 -13  30   4.2    1.8  -2.0  3  J
 13                                                                  532  3.5  92  J    5.5 -10  34   4.2    2.3  -2.0  2  J
 14                                                                  535  3.4  84  J    5.4 -18  34   3.9    1.9  -2.4  2  J
 15
 16
 17                                                                                     5.8  13 291   1.6   -3.9   2.0  4  J
 18
 19
 20
 21                                                                                     5.7  37 341   4.0   -1.3   3.2  2  J
 22                                                                                     5.4  19 336   4.1   -1.8   1.5  3  J
 23                                                                  602  2.1  57  J    5.0   4 283   1.0   -4.5   0.3  2  J
 24                                                                  574  2.7  80  J    5.5   4 302   2.6   -4.1   0.4  2  J

                            JUL. 21, 1984                   203                          JUL. 22, 1984                   204

  1     582  2.8  91  J    5.6  13 318   2.6   -2.3   0.9  4  J
  2     549  2.3  57  J    5.6  17 353   4.9   -0.5   1.6  2  J                         5.8  20  45   3.8    3.9   1.7  1  J
  3     537  2.4  54  J    6.1  15   1   5.7    0.2   1.5  1  J      479  4.4  80  J    5.7   9  16   2.8    0.9   0.4  5  J
  4     534  2.3  59  J    5.4   6 350   5.1   -0.8   0.7  1  J      515  4.7  61  J    6.0 -27 248  -1.9   -5.0  -1.8  2  J
  5     560  3.0  82  J    6.1   9 300   2.7   -4.4   1.8  3  J      477  5.0  70  J    5.5  -9 292   1.8   -4.6   0.2  2  J
  6                                                                  466  4.5  55  J    5.8  -9 314   3.6   -3.8   0.1  2  J
  7     572  3.9  77  J    6.0 -23 287   1.5   -5.5  -0.7  2  J      471  4.6  65  J    5.8   4 299   2.5   -4.1   1.7  3  J
  8                        5.8  19  33   2.2    1.7   0.4  5  J
  9     522  3.4 177  J    5.7 -22  11   2.9    0.1  -1.3  5  J      455  5.8  62  J
 10     576  3.9  76  J    5.9  15 284   0.9   -2.8   2.3  5  J      462  5.3  55  J    5.8  11 289   1.6   -3.9   2.7  3  J
 11     523  3.6  66  J    5.9  16 345   4.5   -0.6   1.7  3  J      472  5.7  45  J    6.0  13 267  -0.3   -4.5   3.5  2  J
 12     510  3.7  42  J    6.1  13   3   5.6    0.8   1.1  2  J      463  6.4  56  J    5.8  36 347   2.0    0.2   1.5  5  J
 13     503  3.9  41  J    6.4  11 339   5.5   -1.5   1.9  2  J      435  7.1  87  J    6.2  12 338   4.9   -1.4   1.8  3  J
 14     498  3.5  41  J    5.9   3 342   5.1   -1.4   0.9  2  J      438  6.9  89  J    5.6  10 344   3.8   -0.7   1.1  4  J
 15     498  3.7  38  J    6.1   4   3   5.5    0.4   0.3  3  J      450  6.9  62  J    6.0  16 298   2.2   -3.5   2.7  3  J
 16                                                                  455  7.0  52  J    6.2  -2 280   1.0   -5.2   1.4  3  J
 17     511  4.5  47  J    6.4  30  24   5.0    2.9   2.6  1  J      434  7.2  69  J    6.0  11 306   2.8   -3.6   1.8  3  J
 18     513  4.5  50  J    6.2  13  38   4.6    3.8   0.7  1  J      434  6.7  60  J    6.1  49  13   3.6    1.6   4.1  2  J
 19     519  5.0  72  J    6.6   2  57   3.3    5.1  -0.4  2  J      432  6.7  50  J    6.1  39 337   3.2   -1.0   3.0  4  J
 20     501  5.2  54  J    7.2  21  27   5.3    2.9   2.1  3  J      437  7.1  76  J    5.8   8 306   2.7   -3.7   0.9  3  J
 21                        6.7  20 321   4.8   -3.8   2.4  1  J      452  7.3  70  J    5.7  62   6   2.2    0.4   4.1  3  J
 22                                                                  456  7.8  65  J    5.8  63  29   1.9    1.1   4.2  3  J
 23                                                                  440  7.6  64  J    5.9  19 295   2.1   -4.5   1.8  2  J
 24                                                                  423  7.4  62  J    5.9 -24 307   2.9   -3.9  -2.1  3  J

                            JUL. 23, 1984                   205                          JUL. 24, 1984                   206

  1     426  7.4  64  J    5.2  -4 344   3.5   -1.0  -0.2  4  J      394  8.9  33  J    8.6  -7 289   2.6   -7.5  -0.7  3  J
  2     439  8.1  83  J    5.2 -37  31   2.5    1.3  -2.3  4  J      400  9.3  42  J    8.7  16 310   3.1   -3.6   1.6  7  J
  3     437  8.3  97  J    5.1 -14  40   2.7    2.1  -1.1  4  J
  4     425  7.6  55  J    5.6 -20  26   4.5    1.9  -2.1  2  J
  5     423  7.9  53  J    5.9   8  26   4.7    2.4   0.2  3  J
  6     423  7.7  45  J    6.0  23   1   5.0    0.6   2.0  3  J
  7     418  7.9  47  J    5.8   4 321   4.2   -3.1   1.4  2  J      443 12.9 156  J   12.8 -20 295   4.7  -10.8  -0.7  5  J
  8     421  7.1  46  J    5.4  23 328   3.4   -1.4   2.4  3  J      442 12.5 250  J   11.2 -19 307   5.7   -8.3  -0.4  5  J
  9                                                                  456 14.3 261  J   12.6  -3 296   5.2  -10.0   3.5  4  J
 10     416  7.5  42  J    5.8  34  29   3.3    2.7   1.6  3  J      486 15.4 207  J   13.5 -56 204  -5.2   -5.5  -6.7  9  J
 11     444  8.2  45  J    5.9  21 262  -0.7   -3.5   3.6  3  J
 12     411  7.9  49  J    5.7 -19 325   3.3   -2.6  -0.3  4  J
 13     411  7.9  48  J    5.6  19 322   3.5   -1.9   2.5  3  J
 14     409  8.4  56  J    5.4  15 323   3.5   -2.0   2.1  3  J
 15     416  8.3  42  J    5.3  34 306   2.3   -2.1   3.6  2  J
 16                                                                  458  4.6  56  J
 17     414  8.9  35  J    6.1 -21 280   0.9   -5.6  -0.7  2  J      471  4.0  81  J   12.7   2 317   8.3   -7.4   2.3  5  J
 18     406  8.7  35  J    6.4 -21 292   2.1   -5.5  -1.2  2  J      446  4.9  52  J   12.8   9 320   9.5   -7.5   3.4  2  J
 19     407  9.0  44  J    6.2  34 305   2.6   -3.3   3.4  3  J      452  5.6  63  J   12.5  18 320   8.7   -6.8   4.6  3  J
 20                                                                  456  6.0  71  J   12.1  17 311   7.4   -8.2   4.1  2  J
 21     382  9.8  47  J    7.0  10  15   6.4    1.8   1.1  2  J      447  5.6  71  J   11.7  24 325   8.5   -5.7   4.9  3  J
 22     377  9.3  25  J    6.8  13 351   6.4   -1.0   1.5  1  J      440  6.0  66  J   11.3  19 320   8.0   -6.6   3.8  3  J
 23     382  9.0  34  J    7.5   8 328   5.0   -3.1   0.9  4  J
 24     395  8.4  27  J    8.2 -19 294   2.9   -6.5  -2.3  3  J
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07/25/84 – 08/05/84

JUL. 25, 1984 207

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 418 | 8.3 | 41 | J | 9.6 | 1 | 306 | 5.5 | -7.5 | 0.8 | 3 | J |
| 3 | 419 | 8.1 | 38 | J | 9.5 | -6 | 298 | 4.3 | -8.1 | 0.0 | 2 | J |
| 4 | 403 | 7.6 | 33 | J | 9.7 | 3 | 328 | 7.5 | -4.5 | 1.2 | 4 | J |
| 5 | 396 | 8.1 | 36 | J | 9.6 | 1 | 327 | 7.8 | -4.9 | 1.3 | 2 | J |
| 6 | 417 | 8.0 | 35 | J | 9.1 | 1 | 305 | 4.8 | -6.5 | 2.0 | 4 | J |
| 7 | 415 | 8.1 | 38 | J | 8.8 | 5 | 310 | 4.5 | -4.9 | 2.3 | 5 | J |
| 8 | 428 | 8.3 | 36 | J | 8.9 | 2 | 288 | 2.5 | -7.0 | 3.0 | 4 | J |
| 9 | 409 | 8.0 | 34 | J | 8.6 | -26 | 299 | 3.6 | -7.4 | -0.8 | 2 | J |
| 10 | 417 | 8.4 | 34 | J | 8.3 | -32 | 285 | 1.8 | -7.7 | -1.1 | 2 | J |
| 11 | 410 | 8.8 | 30 | J | 8.2 | -15 | 287 | 2.3 | -7.6 | 1.3 | 2 | J |
| 12 | 410 | 8.3 | 36 | J | 8.1 | -14 | 290 | 2.6 | -7.3 | 1.4 | 2 | J |
| 13 | 406 | 8.3 | 46 | J | 8.1 | -34 | 292 | 2.0 | -5.9 | -1.2 | 5 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 381 | 9.0 | 52 | J | 8.0 | 12 | 320 | 5.8 | -4.2 | 3.0 | 2 | J |
| 17 | 383 | 8.8 | 61 | J | 7.9 | 3 | 311 | 5.0 | -5.4 | 1.8 | 2 | J |
| 18 | 380 | 7.8 | 57 | J | 7.9 | -25 | 338 | 6.6 | -3.2 | -2.7 | 1 | J |
| 19 | 381 | 8.2 | 63 | J | 7.9 | -35 | 347 | 6.1 | -2.0 | -4.2 | 2 | J |
| 20 | 378 | 7.9 | 51 | J | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

JUL. 26, 1984 208

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 309 | 11.6 | 109 | L | | | | | | | | |

JUL. 31, 1984 213

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 409 | 12.6 | 35 | J | | | | | | | | |
| 7 | 403 | 13.0 | 40 | J | 5.1 | 3 | 79 | 0.8 | 4.1 | -1.3 | 3 | J |
| 8 | 373 | 10.3 | 34 | J | 6.0 | 13 | 160 | -5.3 | 2.3 | 0.5 | 1 | J |
| 9 | 414 | 9.5 | 31 | J | 6.9 | 3 | 162 | -6.5 | 2.1 | -0.6 | 1 | J |
| 10 | 391 | 17.1 | 46 | J | 8.3 | 13 | 122 | -4.1 | 6.6 | -1.3 | 2 | J |
| 11 | 383 | 17.6 | 48 | J | 8.3 | 27 | 132 | -4.7 | 6.2 | 0.8 | 3 | J |
| 12 | 376 | 16.0 | 31 | J | 8.0 | 32 | 144 | -5.3 | 5.3 | 1.9 | 2 | J |
| 13 | 390 | 23.6 | 82 | J | 7.1 | 14 | 123 | -3.0 | 4.8 | -0.8 | 4 | J |
| 14 | | | | | 7.2 | -15 | 103 | -1.5 | 5.0 | -4.2 | 3 | J |
| 15 | | | | | 6.9 | -15 | 114 | -2.6 | 4.7 | -3.7 | 2 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 10.2 | -47 | 266 | -0.4 | -5.5 | -5.1 | 7 | J |
| 23 | | | | | 9.4 | -76 | 69 | 0.4 | 0.7 | -4.1 | 9 | J |
| 24 | | | | | | | | | | | | |

AUG. 1, 1984 214

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 478 | 29.3 | 139 | J | 10.9 | 10 | 109 | -2.9 | 8.4 | 0.8 | 6 | J |
| 2 | 475 | 30.6 | 155 | J | 11.6 | -27 | 110 | -3.4 | 8.7 | -6.2 | 2 | J |
| 7 | 545 | 12.8 | 316 | J | 11.2 | -44 | 91 | -0.1 | 3.6 | -7.6 | 7 | J |
| 8 | 580 | 9.3 | 424 | J | 10.6 | 31 | 132 | -3.7 | 5.1 | 1.5 | 8 | J |
| 9 | 585 | 9.5 | 293 | J | 10.9 | 10 | 110 | -2.1 | 5.6 | -1.4 | 9 | J |
| 10 | 586 | 9.2 | 264 | J | 9.7 | -18 | 134 | -5.8 | 4.2 | -5.1 | 4 | J |
| 11 | 578 | 8.5 | 275 | J | 7.6 | -23 | 125 | -2.6 | 2.4 | -3.4 | 6 | J |
| 12 | 662 | 6.5 | 418 | J | 8.6 | 9 | 151 | -6.1 | 3.5 | -0.6 | 5 | J |
| 13 | 654 | 7.4 | 365 | J | 9.4 | 18 | 142 | -5.4 | 4.8 | 0.1 | 6 | J |
| 14 | 647 | 7.8 | 325 | J | 10.6 | 9 | 136 | -5.3 | 5.1 | -1.1 | 7 | J |
| 15 | 658 | 5.0 | 178 | J | 8.5 | -7 | 152 | -6.6 | 2.9 | -2.2 | 4 | J |
| 16 | 663 | 4.2 | 199 | J | 7.7 | -4 | 146 | -5.9 | 3.6 | -1.8 | 3 | J |
| 17 | | | | | 7.7 | -24 | 151 | -3.0 | 1.1 | -1.9 | 7 | J |
| 21 | | | | | 8.1 | -14 | 145 | -5.9 | 3.9 | -2.2 | 3 | J |
| 22 | | | | | 7.8 | -3 | 147 | -5.5 | 3.6 | -0.6 | 4 | J |

AUG. 2, 1984 215

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 627 | 5.3 | 92 | J | 7.6 | -19 | 158 | -6.1 | 2.1 | -2.7 | 3 | J |
| 4 | 640 | 5.8 | 160 | J | 6.9 | 40 | 134 | -2.9 | 3.6 | 2.8 | 4 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 598 | 6.0 | 262 | J | 6.0 | 16 | 143 | -4.0 | 3.3 | 0.3 | 3 | J |
| 8 | 601 | 6.0 | 233 | J | 5.7 | 39 | 152 | -2.6 | 2.2 | 1.6 | 4 | J |
| 9 | 581 | 5.3 | 125 | J | 5.6 | 9 | 168 | -4.7 | 1.2 | 0.3 | 3 | J |
| 10 | 617 | 5.8 | 181 | J | 4.9 | 68 | 173 | -1.0 | 1.3 | 2.3 | 4 | J |
| 11 | 622 | 5.7 | 182 | J | 5.2 | 22 | 120 | -1.4 | 2.7 | -0.1 | 4 | J |
| 12 | 606 | 5.7 | 153 | J | 6.0 | 13 | 130 | -2.9 | 3.5 | -0.7 | 4 | J |
| 13 | 596 | 5.5 | 165 | J | 5.6 | 19 | 129 | -2.7 | 3.6 | -0.2 | 3 | J |
| 14 | 626 | 5.8 | 151 | J | 5.3 | 15 | 214 | -1.2 | -0.6 | 0.7 | 5 | J |
| 15 | 620 | 4.9 | 127 | J | 6.3 | -49 | 176 | -4.1 | -1.6 | -4.4 | 1 | J |
| 16 | | | | | | | | | | | | |
| 17 | 642 | 3.0 | 146 | J | 6.3 | -9 | 144 | -4.9 | 3.1 | -1.9 | 2 | J |
| 18 | | | | | 6.1 | 0 | 139 | -4.4 | 3.7 | -0.9 | 2 | J |
| 19 | | | | | 6.1 | -3 | 129 | -3.6 | 4.4 | -1.1 | 2 | J |
| 20 | | | | | 6.0 | -5 | 118 | -2.6 | 4.7 | -1.1 | 2 | J |
| 21 | | | | | 6.2 | -8 | 127 | -3.5 | 4.6 | -1.3 | 2 | J |
| 22 | | | | | 6.5 | -20 | 147 | -4.9 | 3.0 | -2.4 | 2 | J |
| 23 | 572 | 3.1 | 84 | J | 6.5 | -6 | 156 | -5.7 | 2.5 | -0.8 | 2 | J |
| 24 | 552 | 3.4 | 67 | J | 6.7 | -6 | 154 | -5.7 | 2.7 | -0.9 | 2 | J |

AUG. 3, 1984 216

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 514 | 4.2 | 63 | J | 5.8 | 8 | 135 | -3.9 | 3.9 | 0.4 | 2 | J |
| 2 | 528 | 5.0 | 131 | J | 6.0 | -5 | 142 | -4.5 | 3.4 | -0.9 | 2 | J |
| 3 | 563 | 4.9 | 104 | J | 6.1 | 17 | 115 | -2.0 | 4.4 | 0.7 | 3 | J |
| 4 | 533 | 5.6 | 177 | J | 6.5 | -14 | 153 | -5.0 | 2.2 | -1.9 | 3 | J |
| 5 | 543 | 5.2 | 135 | J | 6.5 | -34 | 165 | -4.1 | 0.3 | -3.0 | 4 | J |
| 11 | 559 | 5.2 | 96 | J | 6.3 | -15 | 127 | -3.5 | 3.4 | -3.5 | 2 | J |
| 12 | 546 | 4.9 | 122 | J | 6.2 | -16 | 146 | -4.6 | 2.0 | -2.9 | 2 | J |
| 13 | 550 | 4.8 | 91 | J | 6.3 | -17 | 135 | -4.1 | 2.8 | -3.4 | 2 | J |
| 19 | 544 | 5.5 | 122 | J | 5.1 | 65 | 94 | -0.1 | 2.3 | 3.3 | 3 | J |
| 20 | 510 | 5.1 | 101 | J | 5.6 | 49 | 205 | -2.8 | -0.8 | 3.7 | 3 | J |
| 21 | 515 | 5.5 | 98 | J | 5.9 | -30 | 159 | -3.4 | 1.1 | -2.2 | 4 | J |
| 22 | 506 | 5.5 | 105 | J | 5.6 | 2 | 149 | -3.5 | 2.1 | -0.0 | 4 | J |
| 23 | 509 | 5.9 | 98 | J | 5.9 | -9 | 131 | -3.3 | 3.7 | -1.1 | 3 | J |
| 24 | 508 | 6.1 | 86 | J | 6.4 | -32 | 152 | -4.3 | 2.0 | -3.2 | 3 | J |

AUG. 4, 1984 217

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 498 | 5.2 | 96 | J | 5.8 | 0 | 159 | -4.6 | 1.7 | -0.2 | 3 | J |
| 2 | 458 | 5.0 | 81 | J | 5.7 | 13 | 154 | -4.3 | 2.2 | 0.8 | 3 | J |
| 3 | 511 | 4.7 | 72 | J | 6.0 | 9 | 133 | -3.7 | 4.1 | 0.2 | 2 | J |
| 4 | 519 | 4.7 | 78 | J | 5.9 | 26 | 168 | -4.5 | 1.4 | 2.0 | 3 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 507 | 5.6 | 130 | J | 5.1 | -1 | 116 | -2.1 | 3.9 | -1.6 | 2 | J |
| 17 | 490 | 5.0 | 118 | J | 5.6 | -28 | 173 | -4.3 | -0.2 | -2.4 | 3 | J |
| 18 | 493 | 4.8 | 124 | J | 5.6 | -30 | 145 | -3.9 | 2.0 | -3.3 | 1 | J |
| 19 | 484 | 4.2 | 148 | J | 5.2 | 10 | 164 | -4.8 | 1.5 | 0.6 | 1 | J |
| 20 | 485 | 5.1 | 110 | J | 5.4 | -21 | 148 | -3.6 | 2.0 | -1.9 | 3 | J |
| 21 | 503 | 5.2 | 91 | J | 5.8 | 8 | 76 | 1.3 | 5.1 | 0.2 | 2 | J |
| 22 | 478 | 4.7 | 78 | J | 5.6 | -30 | 144 | -3.4 | 2.2 | -2.6 | 3 | J |
| 23 | 465 | 4.8 | 65 | J | 5.7 | -22 | 148 | -4.2 | 2.5 | -2.2 | 2 | J |
| 24 | 464 | 4.4 | 58 | J | 5.4 | -4 | 167 | -4.6 | 1.0 | -0.4 | 3 | J |

AUG. 5, 1984 218

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 474 | 4.5 | 82 | J | 4.8 | -4 | 135 | -2.3 | 2.2 | -0.5 | 4 | J |
| 2 | 457 | 3.7 | 60 | J | 4.4 | 3 | 175 | -4.0 | 0.4 | 0.2 | 2 | J |
| 3 | 459 | 3.6 | 68 | J | 4.4 | 6 | 160 | -3.6 | 1.4 | 0.2 | 2 | J |
| 4 | 458 | 4.2 | 51 | J | 5.5 | -16 | 159 | -4.7 | 1.4 | -1.8 | 2 | J |
| 5 | 464 | 4.2 | 65 | J | 5.3 | -23 | 157 | -4.0 | 1.1 | -2.2 | 2 | J |
| 6 | 456 | 3.9 | 57 | J | 5.1 | -15 | 171 | -4.2 | 0.3 | -1.3 | 3 | J |
| 7 | 456 | 4.0 | 77 | J | 4.9 | 5 | 168 | -3.7 | 0.9 | 0.0 | 3 | J |
| 8 | 465 | 4.3 | 65 | J | 5.4 | 4 | 127 | -2.9 | 3.6 | -1.3 | 2 | J |
| 9 | 472 | 4.2 | 70 | J | 5.1 | 4 | 128 | -3.1 | 3.8 | -1.5 | 0 | J |
| 10 | 481 | 4.8 | 99 | J | 5.1 | 51 | 90 | 0.0 | 3.6 | 1.5 | 3 | J |
| 11 | 465 | 4.7 | 87 | J | 5.1 | 50 | 114 | -1.0 | 3.5 | 1.6 | 3 | J |
| 18 | 444 | 4.4 | 86 | J | 4.8 | -24 | 154 | -3.6 | 1.3 | -2.2 | 2 | J |
| 19 | 436 | 5.3 | 105 | J | 5.3 | -28 | 158 | -4.2 | 1.2 | -2.7 | 1 | J |

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AUG. 6, 1984 219

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 419 | 4.4 | 57 | J | 4.7 | 8 | 129 | -2.7 | 3.4 | 0.2 | 2 | J |
| 2 | 423 | 4.5 | 60 | J | 4.0 | -16 | 139 | -2.4 | 1.9 | -1.2 | 2 | J |
| 3 | 423 | 4.4 | 61 | J | 4.7 | -6 | 119 | -1.9 | 3.3 | -1.0 | 2 | J |
| 4 | 422 | 4.6 | 62 | J | 4.9 | 32 | 106 | -1.0 | 3.9 | 1.4 | 2 | J |
| 5 | 428 | 4.5 | 54 | J | 5.0 | 17 | 91 | -0.1 | 4.6 | 0.1 | 2 | J |
| 6 | 414 | 4.9 | 69 | J | 4.0 | 22 | 137 | -2.1 | 2.2 | 0.5 | 3 | J |
| 7 | 409 | 5.2 | 77 | J | 4.3 | 28 | 177 | -2.5 | 0.6 | 1.2 | 3 | J |
| 8 | 391 | 5.0 | 115 | J | 4.1 | 0 | 175 | -3.8 | 0.3 | -0.1 | 2 | J |
| 9 | 392 | 5.4 | 129 | J | 4.4 | 2 | 153 | -3.7 | 1.7 | -0.7 | 2 | J |
| 10 | 393 | 5.2 | 125 | J | 4.4 | 1 | 147 | -3.6 | 2.1 | -1.0 | 1 | J |
| 11 | 376 | 4.4 | 29 | J | 4.5 | -12 | 178 | -4.4 | -0.3 | -0.9 | 0 | J |
| 12 | 383 | 4.9 | 76 | J | 4.2 | 14 | 189 | -3.9 | -0.1 | 1.2 | 1 | J |
| 13 | 387 | 5.5 | 72 | J | 4.7 | 2 | 135 | -3.3 | 2.9 | -1.4 | 1 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 375 | 6.0 | 26 | J | 5.1 | -13 | 131 | -3.1 | 3.2 | -2.0 | 1 | J |
| 19 | 373 | 5.7 | 26 | J | 5.1 | -19 | 135 | -3.3 | 3.0 | -2.3 | 1 | J |
| 20 | | | | | | | | | | | | |
| 21 | 371 | 8.1 | 22 | J | 5.0 | -14 | 119 | -2.3 | 3.9 | -1.6 | 1 | J |
| 22 | 370 | 7.5 | 21 | J | 5.2 | -20 | 131 | -3.1 | 3.4 | -2.0 | 1 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 7, 1984 220

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | 358 | 8.1 | 34 | J | 5.1 | 1 | 130 | -3.1 | 3.7 | -0.8 | 1 | J |
| 5 | 356 | 8.9 | 41 | J | 5.0 | -4 | 142 | -3.9 | 2.8 | -1.2 | 1 | J |
| 6 | 357 | 9.4 | 48 | J | 5.1 | -2 | 142 | -3.9 | 2.8 | -1.2 | 1 | J |
| 7 | 345 | 10.5 | 58 | J | 5.0 | -3 | 148 | -4.1 | 2.3 | -1.2 | 1 | J |
| 8 | 342 | 11.2 | 42 | J | 5.3 | 8 | 146 | -4.3 | 2.9 | -0.6 | 1 | J |
| 9 | 352 | 11.5 | 43 | J | 5.6 | 5 | 125 | -3.1 | 4.2 | -1.6 | 1 | J |
| 10 | 353 | 12.0 | 33 | J | 5.8 | 11 | 118 | -2.6 | 4.9 | -1.4 | 1 | J |
| 11 | 346 | 14.8 | 52 | J | 5.9 | 2 | 137 | -4.3 | 3.6 | -1.8 | 1 | J |
| 12 | 344 | 15.5 | 49 | J | 6.1 | 21 | 133 | -3.8 | 4.5 | -0.1 | 2 | J |
| 13 | 356 | 19.2 | 37 | J | 4.9 | 65 | 154 | -1.6 | 2.5 | 3.0 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 338 | 26.1 | 15 | J | 2.7 | 5 | 143 | -2.1 | 1.6 | -0.2 | 1 | J |
| 19 | 342 | 24.8 | 20 | J | 3.4 | -1 | 161 | -3.1 | 1.0 | -0.3 | 1 | J |
| 20 | 343 | 28.4 | 21 | J | 2.5 | 11 | 146 | -2.0 | 1.4 | 0.2 | 1 | J |
| 21 | | | | | | | | | | | | |
| 22 | 343 | 35.8 | 18 | J | 4.6 | -7 | 157 | -4.2 | 1.7 | -0.7 | 0 | J |
| 23 | 340 | 40.2 | 19 | J | 3.2 | -15 | 157 | -2.0 | 0.8 | -0.7 | 2 | J |
| 24 | 340 | 44.7 | 21 | J | 5.7 | -22 | 306 | 2.9 | -4.2 | -1.6 | 2 | J |

AUG. 8, 1984 221

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 344 | 47.4 | 31 | J | 6.5 | -29 | 284 | 0.8 | -3.5 | -1.5 | 5 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 13, 1984 226

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 423 | 7.9 | 50 | J | 5.9 | -52 | 308 | 2.0 | -3.7 | -3.1 | 3 | J |
| 6 | 412 | 7.8 | 49 | J | 6.2 | -8 | 317 | 3.7 | -3.5 | 0.6 | 4 | J |
| 7 | 425 | 8.2 | 39 | J | 6.3 | 7 | 274 | 0.3 | -4.3 | 2.6 | 4 | J |
| 8 | 417 | 8.1 | 55 | J | 6.1 | -2 | 304 | 2.5 | -3.3 | 1.5 | 4 | J |
| 9 | 461 | 8.1 | 45 | J | 6.7 | 28 | 248 | -2.2 | -3.3 | 5.3 | 1 | J |
| 10 | 437 | 8.1 | 45 | J | 6.6 | 59 | 245 | -1.2 | 0.1 | 5.6 | 3 | J |
| 11 | 421 | 7.5 | 37 | J | 6.8 | 30 | 287 | 1.3 | -2.3 | 4.3 | 4 | J |
| 12 | 414 | 7.4 | 43 | J | 5.9 | 20 | 299 | 2.1 | -2.5 | 3.3 | 4 | J |
| 13 | 416 | 6.8 | 41 | J | 6.4 | 1 | 306 | 3.1 | -3.7 | 2.2 | 4 | J |
| 14 | | | | | 6.7 | -8 | 313 | 4.4 | -4.6 | 1.4 | 2 | J |
| 15 | | | | | 5.8 | 18 | 352 | 5.2 | 0.1 | 1.8 | 2 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 14, 1984 227

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 8.7 | 21 | 305 | 4.1 | -4.9 | 4.2 | 4 | J |
| 5 | 366 | 10.4 | 26 | J | 9.4 | 8 | 314 | 6.3 | -5.8 | 3.3 | 2 | J |
| 6 | | | | | | | | | | | | |
| 7 | 351 | 11.3 | 38 | J | 9.8 | -1 | 337 | 8.7 | -3.5 | 1.4 | 2 | J |
| 8 | 362 | 12.8 | 32 | J | 10.9 | -10 | 318 | 7.7 | -7.0 | 1.5 | 3 | J |
| 9 | 378 | 16.0 | 37 | J | 11.7 | 0 | 308 | 6.0 | -6.8 | 3.7 | 6 | J |
| 10 | 376 | 15.4 | 70 | J | 11.4 | -20 | 311 | 6.6 | -8.4 | 0.6 | 4 | J |
| 11 | 431 | 22.7 | 222 | J | 9.8 | -3 | 98 | -0.9 | 5.3 | -3.5 | 8 | J |
| 12 | 434 | 17.6 | 159 | J | 11.4 | 45 | 92 | -0.2 | 8.7 | 2.2 | 7 | J |
| 13 | 408 | 19.0 | 141 | J | 12.8 | -30 | 8 | 9.3 | -1.6 | -5.3 | 7 | J |
| 14 | 429 | 15.8 | 240 | J | 14.5 | -46 | 332 | 7.2 | -7.4 | -5.7 | 9 | J |
| 15 | 510 | 12.1 | 384 | J | 16.4 | -74 | 336 | 3.1 | -6.4 | -10.0 | 11 | J |
| 16 | 516 | 10.4 | 293 | J | 15.0 | -2 | 302 | 7.0 | -10.5 | 3.9 | 7 | J |
| 17 | | | | | 15.4 | -8 | 305 | 7.6 | -10.9 | 1.9 | 8 | J |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 9.4 | 3 | 217 | -7.3 | -5.4 | 1.2 | 2 | J |
| 23 | | | | | 8.4 | -6 | 216 | -6.4 | -4.7 | -0.2 | 3 | J |
| 24 | | | | | | | | | | | | |

AUG. 15, 1984 228

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | 604 | 7.0 | 259 | J | 8.0 | -2 | 322 | 5.0 | -3.7 | 1.2 | 5 | J |
| 7 | 615 | 5.7 | 131 | J | 8.2 | -11 | 291 | 2.4 | -6.2 | 1.4 | 4 | J |
| 8 | 604 | 5.8 | 209 | J | 7.9 | 6 | 306 | 3.3 | -3.8 | 2.6 | 5 | J |
| 9 | | | | | | | | | | | | |
| 10 | 613 | 5.6 | 181 | J | 7.5 | 38 | 48 | 2.2 | 3.3 | 1.0 | 6 | J |
| 11 | 574 | 5.2 | 99 | J | 7.4 | 12 | 331 | 6.0 | -2.1 | 3.0 | 2 | J |
| 12 | 583 | 6.5 | 229 | J | 8.1 | 7 | 308 | 4.8 | -4.7 | 3.9 | 2 | J |
| 13 | 571 | 5.7 | 111 | J | 8.0 | -6 | 324 | 5.6 | -3.9 | 1.4 | 4 | J |
| 14 | 583 | 5.8 | 140 | J | 8.3 | -5 | 307 | 4.2 | -5.2 | 2.1 | 4 | J |
| 15 | 564 | 5.3 | 92 | J | 8.1 | 10 | 320 | 5.7 | -3.7 | 3.3 | 3 | J |
| 16 | 560 | 5.4 | 93 | J | 8.1 | -26 | 352 | 6.5 | -2.1 | -2.6 | 3 | J |
| 17 | 564 | 5.1 | 124 | J | 8.2 | 19 | 313 | 4.6 | -3.9 | 3.9 | 4 | J |
| 18 | 554 | 4.7 | 98 | J | 7.9 | 15 | 320 | 5.3 | -3.7 | 3.1 | 3 | J |
| 19 | 530 | 5.4 | 117 | J | 7.9 | 7 | 317 | 5.4 | -4.7 | 2.1 | 2 | J |
| 20 | 531 | 6.6 | 181 | J | 6.9 | -20 | 343 | 5.4 | -2.0 | -1.7 | 3 | J |
| 21 | | | | | 7.4 | 7 | 10 | 6.2 | 1.2 | 0.6 | 4 | J |
| 22 | 533 | 7.3 | 210 | J | 6.7 | 17 | 336 | 4.1 | -1.6 | 1.6 | 5 | J |
| 23 | 530 | 6.3 | 126 | J | 6.2 | -14 | 354 | 3.7 | -0.5 | -0.9 | 5 | J |
| 24 | 546 | 6.6 | 147 | J | 6.3 | 12 | 336 | 2.4 | -1.0 | 0.7 | 6 | J |

AUG. 16, 1984 229

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 541 | 7.3 | 191 | J | 6.4 | -7 | 296 | 2.1 | -4.4 | 0.1 | 4 | J |
| 2 | 550 | 7.1 | 175 | J | 6.2 | 8 | 294 | 1.4 | -3.1 | 1.1 | 5 | J |
| 3 | 554 | 7.2 | 166 | J | 6.6 | -21 | 284 | 1.0 | -4.4 | -0.7 | 5 | J |
| 4 | 532 | 6.8 | 127 | J | 6.3 | -16 | 298 | 2.3 | -4.5 | -0.2 | 4 | J |
| 5 | 528 | 6.8 | 114 | J | 6.2 | -20 | 324 | 3.8 | -3.2 | -0.7 | 4 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 541 | 6.8 | 82 | J | 6.6 | -6 | 62 | 2.7 | 4.1 | -2.9 | 3 | J |
| 10 | 525 | 6.8 | 108 | J | 6.7 | 4 | 335 | 4.4 | -1.6 | 1.3 | 5 | J |
| 11 | 517 | 5.9 | 76 | J | 7.2 | -10 | 308 | 3.9 | -4.8 | 1.6 | 3 | J |
| 12 | 526 | 6.4 | 111 | J | 7.0 | -40 | 352 | 3.6 | -2.0 | -2.3 | 5 | J |
| 13 | 530 | 6.3 | 106 | J | 7.0 | 33 | 357 | 4.6 | 1.3 | 2.7 | 4 | J |
| 14 | 500 | 6.0 | 49 | J | 7.8 | -5 | 341 | 7.1 | -2.4 | 0.6 | 2 | J |
| 15 | 558 | 5.6 | 86 | J | 7.7 | 10 | 270 | -0.0 | -5.9 | 4.3 | 2 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 556 | 5.0 | 73 | J | 7.4 | -5 | 262 | -1.0 | -6.9 | 1.5 | 2 | J |
| 19 | 531 | 4.6 | 90 | J | 7.6 | -2 | 276 | 0.8 | -7.4 | 1.6 | 0 | J |
| 20 | 511 | 5.2 | 65 | J | 7.4 | -11 | 293 | 2.7 | -6.5 | -0.1 | 2 | J |
| 21 | 494 | 5.2 | 85 | J | 6.9 | 7 | 332 | 5.1 | -2.6 | 1.1 | 4 | J |
| 22 | 481 | 5.1 | 86 | J | 6.6 | 5 | 343 | 5.4 | -1.6 | 0.7 | 3 | J |
| 23 | 501 | 5.2 | 74 | J | 7.1 | -10 | 327 | 3.5 | -2.3 | -0.4 | 6 | J |
| 24 | 513 | 4.8 | 98 | L | 6.8 | 1 | 280 | 1.1 | -6.2 | 1.0 | 2 | J |

AUG. 17, 1984 230

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 519 | 4.9 | 89 | J | 6.4 | 5 | 286 | 1.3 | -4.6 | 1.2 | 4 | J |
| 2 | 515 | 5.0 | 83 | J | 6.6 | -3 | 298 | 2.0 | -3.8 | 0.5 | 5 | J |
| 3 | 499 | 4.7 | 83 | J | 6.6 | -12 | 316 | 3.9 | -4.0 | -0.3 | 3 | J |
| 4 | 502 | 4.9 | 77 | J | 6.7 | -22 | 311 | 3.6 | -4.7 | -1.0 | 3 | J |
| 5 | 503 | 4.9 | 77 | J | 6.5 | -3 | 314 | 4.2 | -4.2 | 1.1 | 2 | J |
| 6 | 508 | 5.4 | 107 | J | 6.3 | -1 | 326 | 3.9 | -2.5 | 0.9 | 4 | J |
| 7 | 508 | 4.9 | 80 | J | 5.8 | -23 | 315 | 3.4 | -3.9 | -0.4 | 2 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 507 | 5.3 | 86 | J | 5.8 | 0 | 308 | 3.0 | -3.3 | 2.0 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | 486 | 5.4 | 99 | J | 6.1 | 3 | 324 | 4.2 | -2.5 | 1.8 | 3 | J |
| 13 | 504 | 5.7 | 83 | J | 6.2 | 17 | 316 | 3.2 | -2.0 | 2.7 | 4 | J |
| 14 | 507 | 5.9 | 95 | J | 5.9 | 41 | 305 | 2.1 | -1.1 | 4.2 | 3 | J |
| 15 | 503 | 5.9 | 91 | J | 6.0 | 28 | 284 | 1.1 | -2.9 | 4.2 | 3 | J |
| 16 | 471 | 6.1 | 87 | J | 6.4 | 19 | 316 | 4.1 | -2.8 | 3.4 | 2 | J |
| 17 | 468 | 6.0 | 78 | J | 6.4 | -14 | 319 | 4.4 | -4.1 | -0.0 | 2 | J |
| 18 | 457 | 5.6 | 45 | J | 6.5 | -6 | 332 | 5.2 | -2.8 | 0.2 | 3 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | 6.2 | -3 | 284 | 1.1 | -4.4 | 0.5 | 4 | J |
| 22 | | | | | 6.3 | -28 | 282 | 1.1 | -5.4 | -2.0 | 2 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 18, 1984 231

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 444 | 5.6 | 70 | J | 5.4 | 42 | 305 | 2.1 | -1.1 | 4.3 | 2 | J |
| 9 | 433 | 5.9 | 67 | J | 5.2 | 8 | 303 | 2.6 | -3.1 | 2.5 | 2 | J |
| 10 | 420 | 5.1 | 42 | J | 4.9 | -9 | 14 | 3.8 | 0.5 | -1.0 | 3 | J |
| 11 | 414 | 4.9 | 37 | J | 5.2 | -20 | 19 | 3.8 | 0.4 | -1.9 | 3 | J |
| 12 | 414 | 4.6 | 38 | J | 5.2 | 10 | 345 | 3.6 | -0.5 | 1.1 | 4 | J |
| 13 | 432 | 4.9 | 33 | J | 5.9 | 14 | 294 | 1.9 | -3.1 | 3.2 | 3 | J |
| 14 | 445 | 6.0 | 33 | J | 6.4 | 8 | 275 | 0.5 | -4.6 | 3.5 | 3 | J |
| 15 | 468 | 7.9 | 36 | J | 7.9 | 0 | 265 | -0.7 | -6.7 | 3.3 | 3 | J |
| 16 | 447 | 8.2 | 59 | J | 7.6 | 34 | 320 | 4.2 | -1.7 | 4.8 | 4 | J |
| 17 | 438 | 8.3 | 55 | J | 7.7 | 47 | 342 | 4.9 | 0.4 | 5.7 | 2 | J |
| 18 | 437 | 8.1 | 64 | J | 7.7 | 57 | 339 | 3.9 | 0.5 | 6.5 | 1 | J |
| 19 | 428 | 7.6 | 56 | J | 8.0 | -12 | 291 | 2.0 | -5.4 | 0.1 | 5 | J |
| 20 | | | | | 7.5 | 38 | 358 | 5.4 | 0.7 | 4.1 | 3 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 6.5 | 65 | 14 | 1.8 | 1.1 | 4.0 | 5 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 25, 1984 238

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
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| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | 6.5 | -9 | 135 | -4.0 | 3.8 | -1.6 | 3 | J |
| 23 | | | | | 6.6 | -14 | 130 | -3.6 | 4.0 | -2.1 | 3 | J |
| 24 | | | | | 6.5 | -11 | 167 | -5.9 | 1.1 | -1.4 | 2 | J |

AUG. 27, 1984 240

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 8.5 | 30 | J | 5.0 | -4 | 137 | -3.3 | 2.9 | -0.9 | 2 | J |
| 2 | 372 | 12.8 | 25 | J | 6.0 | -24 | 144 | -3.8 | 2.2 | -2.7 | 3 | J |
| 3 | 369 | 11.4 | 35 | J | 5.9 | -24 | 171 | -5.1 | 0.2 | -2.4 | 2 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 381 | 14.0 | 33 | J | 6.0 | -54 | 150 | -2.7 | -0.7 | -4.6 | 2 | J |
| 9 | 394 | 17.4 | 56 | J | | | | | | | | |
| 10 | 393 | 17.2 | 51 | J | 7.0 | 58 | 134 | -0.8 | 5.9 | 2.9 | 3 | J |
| 11 | 389 | 17.8 | 57 | J | 9.8 | 17 | 123 | -4.9 | 7.9 | -1.8 | 2 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | 470 | 20.4 | 75 | J | 17.8 | -21 | 130 | -10.5 | 8.7 | -11.0 | 3 | J |
| 17 | 471 | 26.0 | 125 | J | 15.5 | 10 | 119 | -5.3 | 9.6 | -1.8 | 11 | J |
| 18 | 495 | 25.9 | 275 | J | 12.9 | 23 | 105 | -2.5 | 10.1 | 0.9 | 8 | J |
| 19 | 498 | 22.4 | 240 | J | 15.5 | -48 | 141 | -7.2 | 2.8 | -11.5 | 7 | J |
| 20 | 532 | 14.9 | 314 | J | 15.6 | -2 | 134 | -9.5 | 9.5 | -2.8 | 8 | J |
| 21 | 579 | 10.8 | 458 | J | 16.2 | 27 | 114 | -5.6 | 13.7 | 4.3 | 5 | J |
| 22 | 581 | 11.7 | 341 | J | 15.8 | 31 | 127 | -7.6 | 11.3 | 5.6 | 6 | J |
| 23 | 569 | 12.9 | 358 | J | 13.8 | -13 | 130 | -6.3 | 7.0 | -3.5 | 9 | J |
| 24 | 560 | 11.3 | 206 | J | 12.1 | -21 | 150 | -8.2 | 4.0 | -4.4 | 6 | J |

AUG. 29, 1984 242

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 629 | 6.0 | 106 | J | 6.2 | 2 | 140 | -3.9 | 3.2 | -0.5 | 3 | J |
| 2 | 638 | 6.9 | 144 | L | 6.4 | 40 | 113 | -1.6 | 4.5 | 2.5 | 3 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | |
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| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 555 | 4.3 | 94 | J | 5.0 | 35 | 174 | -3.8 | 1.0 | 2.5 | 1 | J |
| 21 | 561 | 5.8 | 124 | J | 5.7 | -23 | 136 | -3.3 | 2.7 | -2.6 | 3 | J |
| 22 | 522 | 5.7 | 146 | J | 6.1 | 21 | 163 | -5.1 | 1.9 | 1.7 | 2 | J |
| 23 | 512 | 4.6 | 51 | J | 5.9 | 12 | 177 | -5.7 | 0.5 | 1.1 | 1 | J |
| 24 | | | | | | | | | | | | |

AUG. 19, 1984 232

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 410 | 9.3 | 40 | J | 7.0 | 41 | 357 | 4.8 | 0.6 | 4.2 | 3 | J |
| 3 | 418 | 9.7 | 35 | J | 7.2 | 56 | 348 | 2.8 | 0.4 | 4.3 | 5 | J |
| 4 | 404 | 10.3 | 64 | J | 7.2 | 32 | 356 | 5.7 | 0.6 | 3.5 | 3 | J |
| 5 | 408 | 11.3 | 42 | J | 7.2 | 13 | 291 | 2.2 | -5.0 | 3.3 | 3 | J |
| 6 | 412 | 10.7 | 38 | J | 6.8 | 26 | 288 | 1.6 | -3.7 | 4.3 | 3 | J |
| 7 | 404 | 9.0 | 55 | J | 6.8 | 32 | 318 | 3.8 | -1.8 | 4.4 | 3 | J |
| 8 | 412 | 8.1 | 59 | J | 6.9 | 23 | 336 | 4.0 | -0.7 | 2.4 | 5 | J |
| 9 | 395 | 8.0 | 69 | J | 7.0 | 27 | 351 | 5.8 | 0.7 | 3.1 | 2 | J |
| 10 | 385 | 8.7 | 67 | J | 7.0 | -2 | 333 | 5.6 | -2.6 | 1.3 | 3 | J |
| 11 | 395 | 8.5 | 57 | J | 7.0 | -15 | 328 | 4.7 | -3.3 | 0.3 | 4 | J |
| 12 | 390 | 8.5 | 86 | J | 7.3 | 2 | 10 | 6.0 | 1.0 | -0.4 | 4 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 405 | 12.1 | 58 | J | 10.5 | -35 | 302 | 4.0 | -8.2 | -1.9 | 5 | J |
| 16 | 407 | 15.4 | 47 | J | 9.9 | -37 | 295 | 3.1 | -8.2 | -2.3 | 4 | J |
| 17 | 391 | 17.3 | 64 | J | 10.4 | -43 | 34 | 5.9 | 1.4 | -7.6 | 3 | J |
| 18 | 392 | 16.8 | 55 | J | 10.3 | -38 | 45 | 4.5 | 2.8 | -6.1 | 6 | J |
| 19 | 348 | 14.9 | 129 | J | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

AUG. 26, 1984 239

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 466 | 6.8 | 70 | J | 5.2 | -3 | 88 | 0.2 | 4.7 | -2.1 | 1 | J |
| 6 | 472 | 6.0 | 65 | J | 5.3 | -18 | 81 | 0.7 | 3.7 | -3.3 | 2 | J |
| 7 | 461 | 5.3 | 56 | J | 5.1 | -15 | 89 | 0.1 | 3.3 | -2.9 | 2 | J |
| 8 | 460 | 4.8 | 52 | J | 4.6 | -7 | 83 | 0.5 | 3.5 | -2.6 | 1 | J |
| 9 | 449 | 5.6 | 82 | J | 4.2 | -23 | 141 | -2.4 | 1.0 | -2.2 | 2 | J |
| 10 | 457 | 5.7 | 57 | J | 4.0 | 18 | 72 | 0.9 | 2.8 | -0.7 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | 405 | 6.5 | 69 | J | 4.1 | 5 | 106 | -1.1 | 3.4 | -1.8 | 1 | J |
| 13 | 443 | 6.9 | 66 | J | 3.6 | 29 | 106 | -0.8 | 3.3 | -0.1 | 1 | J |
| 14 | 412 | 7.2 | 61 | J | 5.0 | -17 | 92 | -0.1 | 2.9 | -3.1 | 3 | J |
| 15 | | | | | 4.8 | -10 | 81 | 0.7 | 3.6 | -2.8 | 2 | J |
| 16 | | | | | 5.8 | 22 | 142 | -4.2 | 3.9 | 0.6 | 1 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 5.2 | 53 | 130 | -1.8 | 2.9 | 3.1 | 3 | J |
| 21 | | | | | | | | | | | | |
| 22 | 391 | 10.2 | 25 | J | 4.3 | -13 | 79 | 0.8 | 3.7 | -1.6 | 1 | J |
| 23 | 376 | 9.8 | 29 | J | 4.2 | 6 | 125 | -1.5 | 2.2 | -0.1 | 3 | J |
| 24 | | | | | 4.6 | 24 | 142 | -3.2 | 2.8 | 1.4 | 1 | J |

AUG. 28, 1984 241

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 587 | 10.2 | 302 | J | 11.0 | 37 | 111 | -2.8 | 8.3 | 4.3 | 5 | J |
| 2 | 588 | 9.5 | 168 | J | 8.2 | 17 | 124 | -3.3 | 5.2 | 0.6 | 6 | J |
| 3 | 599 | 11.4 | 164 | J | 7.9 | 20 | 347 | 7.0 | -0.9 | 2.9 | 2 | J |
| 4 | 602 | 12.2 | 194 | J | 8.3 | 5 | 2 | 7.3 | 0.4 | 0.5 | 4 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 630 | 6.3 | 144 | J | 8.2 | 20 | 134 | -5.2 | 6.0 | -0.6 | 2 | J |
| 13 | 621 | 6.4 | 153 | J | 8.2 | 9 | 146 | -6.1 | 4.1 | -1.2 | 3 | J |
| 14 | 619 | 6.5 | 187 | J | 8.3 | 10 | 141 | -5.1 | 4.1 | -1.1 | 5 | J |
| 15 | 513 | 6.7 | 177 | J | 8.1 | -14 | 157 | -6.3 | 1.6 | -2.8 | 4 | J |
| 16 | | | | | | | | | | | | |
| 17 | 579 | 7.4 | 167 | J | 9.3 | -2 | 154 | -7.9 | 3.5 | -1.7 | 3 | J |
| 18 | 605 | 7.3 | 165 | J | 9.9 | 9 | 132 | -5.4 | 6.1 | -0.7 | 5 | J |
| 19 | 619 | 8.0 | 157 | J | 10.3 | -3 | 128 | -5.6 | 6.7 | -2.4 | 5 | J |
| 20 | 602 | 8.4 | 187 | J | 9.7 | -17 | 153 | -6.7 | 2.8 | -3.1 | 6 | J |
| 21 | 603 | 8.3 | 188 | J | 9.7 | -13 | 141 | -6.2 | 4.5 | -2.8 | 5 | J |
| 22 | 611 | 7.6 | 134 | J | 8.3 | -3 | 163 | -6.6 | 1.9 | -0.7 | 5 | J |
| 23 | 620 | 5.4 | 83 | J | 6.2 | 4 | 160 | -4.8 | 1.8 | 0.0 | 3 | J |
| 24 | 639 | 6.2 | 117 | J | 6.4 | -12 | 146 | -3.5 | 2.2 | -1.3 | 5 | J |

AUG. 30, 1984 243

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 503 | 5.3 | 61 | J | 6.5 | -5 | 150 | -5.4 | 3.0 | -1.2 | 2 | J |
| 2 | 513 | 6.0 | 86 | J | 6.7 | -14 | 133 | -3.9 | 3.7 | -2.4 | 3 | J |
| 3 | 492 | 5.9 | 75 | J | 6.9 | -1 | 150 | -5.5 | 3.0 | -1.0 | 3 | J |
| 4 | 488 | 5.9 | 100 | J | 6.6 | -8 | 142 | -5.1 | 3.5 | -2.1 | 1 | J |
| 5 | 482 | 6.1 | 105 | J | 6.7 | 0 | 137 | -4.7 | 4.1 | -1.6 | 2 | J |
| 6 | 477 | 5.7 | 80 | J | 6.7 | -3 | 136 | -4.5 | 3.8 | -2.1 | 2 | J |
| 7 | 473 | 6.4 | 89 | J | 6.4 | 10 | 142 | -4.0 | 3.2 | -0.6 | 4 | J |
| 8 | 465 | 6.6 | 90 | J | 6.3 | -4 | 142 | -4.7 | 3.0 | -2.2 | 2 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 482 | 7.8 | 75 | J | 6.8 | -25 | 89 | 0.1 | 5.0 | -4.4 | 1 | J |
| 20 | 479 | 7.6 | 74 | J | 6.5 | -1 | 76 | 1.5 | 5.9 | -1.6 | 2 | J |
| 21 | 479 | 7.8 | 77 | J | 6.6 | 1 | 75 | 1.6 | 6.0 | -1.2 | 2 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

# 08/31/84 – 09/11/84

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HR      VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF     VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC  MAGN LAT LON                     SC                 1000  SC  MAGN LAT LON                     SC
                        AUG. 31, 1984                     244                        SEP.  1, 1984                      245
  1
  2
  3
  4
  5
  6
  7
  8                                                                 310  6.7 165  L
  9
 10
 11
 12
 13
 14
 15
 16
 17
 18     409  6.8  34  J   6.6  35 163  -5.0   2.7   3.1  1  J
 19     408  6.8  43  J   6.4  30 166  -5.0   2.0   2.5  3  J
 20
 21
 22
 23
 24     405  8.2  44  J   6.4 -20 205  -4.8  -2.5  -1.5  3  J

                        SEP.  6, 1984                     250                        SEP.  7, 1984                      251
  1
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  3
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  6
  7
  8                                                                 420  8.9  51  J   4.8  -1 298   1.6  -2.7   1.5  3  J
  9                                                                 428  8.6  52  J   4.8 -15 265  -0.3  -3.8   1.2  3  J
 10                                                                 422  8.6  44  J   4.5 -18 299   1.6  -2.9   0.7  3  J
 11                                                                 415  8.8  46  J   4.9  12 298   1.8  -2.3   2.6  3  J
 12                                                                 405  8.8  54  J   5.2   2 308   2.6  -2.7   2.0  3  J
 13                                                                 401  8.7  58  J   6.0  -2 321   4.2  -2.9   1.7  2  J
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 20
 21
 22                                                                 379 15.2  21  J
 23
 24                       4.9  -8 358   4.3  -0.3  -0.6  2  J

                        SEP.  8, 1984                     252                        SEP.  9, 1984                      253
  1     373 19.7  22  J   8.5  30 268  -0.3  -6.1   5.6  2  J       478  5.0  92  J   9.9   4 323   7.6  -5.4   1.9  2  J
  2     376 21.5  21  J   9.0  34 262  -1.0  -5.8   6.7  1  J       464  7.0 235  J   8.6  15 313   5.2  -4.9   3.4  4  J
  3                                                                 443  7.0 100  J   8.5   1 326   5.1  -3.3   1.1  6  J
  4
  5
  6
  7     388 17.0  98  J  11.3  -9 308   6.0  -7.4   2.3  5  J
  8     382 16.5  89  J  11.6 -27 323   7.4  -7.2  -1.2  5  J       459  5.5 106  J  10.2 -18 334   8.4  -5.1  -0.5  2  J
  9     393 17.9  88  J  11.5 -10 303   5.7  -8.4   3.2  4  J       462  5.4  71  J  10.3   2 355   9.0  -0.5   0.7  5  J
 10     395 14.8  56  J  14.4  20 299   6.3  -6.8  10.2  4  J       475  5.6 135  J   9.9  14 317   5.9  -3.4   4.7  5  J
 11     418 22.2 133  J  10.5  70 292   1.0   2.0   7.3  8  J       463  5.5  94  J   9.4 -15 322   6.6  -5.5   1.1  3  J
 12     428 19.0 250  J  12.9  71 312   2.7   4.2  11.6  4  J       451  5.4  87  J   9.4  -8 322   7.1  -5.3   2.1  2  J
 13     440 13.4 306  J  12.5  30 290   3.1  -4.3   9.2  6  J       439  5.4  98  J   9.0   5 325   7.2  -3.8   3.4  2  J
 14     425 11.8 389  J  12.8  10 300   5.2  -6.7   6.2  7  J       454  6.8 113  J   9.7   0 301   4.8  -6.8   4.2  3  J
 15                      14.6 -12 315   9.5  -9.7   2.1  5  J       445  7.0 101  J  10.6   2 306   5.9  -7.0   4.3  3  J
 16                      14.0  22  16   4.6   2.1   1.2 14  J
 17                                                                 426 11.3  76  J  13.3  16 319   8.7  -5.6   6.0  6  J
 18                                                                 436 12.5  76  J  14.0   6 312   8.8  -8.7   4.7  4  J
 19                      13.1  56 270  -0.0  -3.7  12.3  3  J       439 14.4 113  J  14.9  -6 313   9.0  -9.6   1.6  7  J
 20                      12.8  68 299   2.2  -0.9  11.7  5  J       445 15.2 123  J  16.8  -5 314  11.2 -11.6   1.6  4  J
 21                      12.9   0 318   8.5  -7.4   1.7  6  J       461 15.2 156  J  16.7   6 312  10.7 -11.2   4.3  4  J
 22                      12.2  -7 320   8.6  -7.3   0.1  5  J       474 13.4 182  J  17.4 -18 316  10.9 -11.4  -2.7  7  J
 23                      11.7 -13 322   8.6  -7.1  -1.1  4  J       694  4.91048  J  16.2   9 311   7.3  -7.8   3.4 12  J
 24                      10.9  -4 342   9.6  -3.2  -0.1  4  J       676  4.0 434  J  14.4  -4 328  11.0  -6.9   0.5  6  J

                        SEP. 1 , 1984                     254                        SEP. 11, 1984                      255
  1     659  4.4 745  J  12.7   3 309   7.1  -8.4   2.5  6  J       746  2.7 267  J   9.7 -14 323   6.7  -5.4  -0.9  5  J
  2     647  5.4 625  J  13.3  13 302   6.1  -8.8   5.1  6  J
  3     635  6.3 533  J  11.8  27 307   4.2  -4.3   5.0  9  J
  4     598  6.9 530  J  11.9   8 316   7.6  -6.4   3.9  5  J
  5     594  6.8 361  J  10.7  -8 335   8.8  -4.3   0.3  4  J
  6                                                                 734  2.4 275  J   8.2 -35 322   4.1  -4.5  -1.9  5  J
  7                                                                 721  2.5 216  J   7.9   4 319   5.3  -3.8   2.7  3  J
  8
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 14
 15
 16     715  3.5 371  L   8.1 -22 348   7.0  -2.6  -1.9  2  J
 17                       9.0 -18 346   7.9  -2.9  -1.7  3  J
 18     718  2.1 201  J   9.5 -19 332   7.8  -4.9  -1.4  2  J
 19     766  1.9 277  J   9.7 -12 315   6.3  -6.6   0.1  3  J       642  2.6 155  J   6.9  -6  18   5.5   1.5  -1.1  4  J
 20     790  1.9 334  J   9.6 -37 310   4.5  -6.6  -3.7  4  J       685  2.6 170  J   7.0  16 320   4.9  -3.5   2.8  2  J
 21     750  2.2 306  J   9.6 -18 328   7.2  -5.0  -1.7  3  J       635  3.3 256  L   6.9  11 351   5.9  -0.6   1.3  3  J
 22     747  2.4 263  J   9.5  -6 328   7.3  -4.7   0.1  4  J
 23     761  2.6 248  J   9.7   3 322   6.8  -5.1   1.5  4  J
 24     747  2.6 234  J  10.2 -12 322   7.2  -5.9  -0.7  4  J
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SEP. 12, 1984 256

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | 7.2 | 37 | 10 | 5.6 | 2.2 | 3.8 | 1 | J |
| 4 | | | | | 6.4 | 31 | 21 | 4.8 | 2.8 | 2.3 | 2 | J |
| 5 | 689 | 2.1 | 114 | J | 6.1 | 0 | 343 | 5.2 | -1.5 | 0.6 | 3 | J |
| 6 | 646 | 2.0 | 139 | L | 5.4 | 9 | 353 | 5.1 | -0.2 | 1.0 | 1 | J |
| 7 | 634 | 2.5 | 96 | J | 6.4 | 26 | 15 | 4.9 | 2.3 | 1.5 | 3 | J |
| 8 | 617 | 2.7 | 159 | L | 6.0 | 16 | 16 | 5.3 | 2.1 | 0.6 | 2 | J |
| 9 | 633 | 2.5 | 103 | J | 6.2 | 16 | 11 | 5.4 | 1.7 | 0.8 | 2 | J |
| 10 | 629 | 2.6 | 102 | J | 6.4 | 7 | 25 | 5.3 | 2.5 | -0.8 | 3 | J |
| 11 | 621 | 2.9 | 88 | J | 6.8 | 30 | 348 | 5.5 | 0.9 | 3.3 | 2 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 617 | 2.8 | 102 | J | 6.4 | -26 | 336 | 5.0 | -2.9 | -1.9 | 2 | J |
| 20 | 612 | 2.3 | 105 | J | 5.8 | -16 | 353 | 4.9 | -0.9 | -1.2 | 3 | J |
| 21 | | | | | 6.6 | -11 | 351 | 6.3 | -1.3 | -1.0 | 1 | J |
| 22 | 623 | 2.5 | 78 | J | 6.2 | -15 | 348 | 5.6 | -1.5 | -1.2 | 2 | J |
| 23 | 648 | 4.1 | 211 | J | 5.8 | -3 | 342 | 5.1 | -1.7 | 0.1 | 2 | J |
| 24 | 651 | 4.1 | 202 | J | 5.8 | -7 | 326 | 4.4 | -3.0 | -0.0 | 2 | J |

SEP. 13, 1984 257

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 613 | 3.4 | 121 | J | 5.9 | -7 | 320 | 4.3 | -3.4 | 1.4 | 2 | J |
| 10 | 606 | 4.1 | 209 | J | 6.2 | -2 | 324 | 4.3 | -2.7 | 1.6 | 3 | J |
| 11 | | | | | 5.8 | 22 | 311 | 3.3 | -2.0 | 3.8 | 2 | J |
| 12 | 615 | 3.9 | 137 | J | 6.0 | 7 | 296 | 2.4 | -3.7 | 3.3 | 2 | J |
| 13 | | | | | 6.3 | 2 | 282 | 1.1 | -4.2 | 3.0 | 3 | J |
| 14 | 648 | 2.4 | 84 | J | 6.9 | 16 | 329 | 3.6 | -1.2 | 2.2 | 5 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 618 | 5.4 | 156 | L | | | | | | | | |
| 18 | 600 | 5.0 | 157 | L | | | | | | | | |
| 19 | 615 | 5.3 | 135 | L | 7.7 | 18 | 250 | -2.2 | -5.2 | 3.8 | 3 | J |
| 20 | 604 | 5.9 | 126 | L | 7.8 | 22 | 262 | -0.9 | -5.6 | 4.3 | 3 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

SEP. 19, 1984 263

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 8.5 | -12 | 168 | -7.1 | 1.0 | -1.9 | 4 | J |
| 21 | | | | | 8.3 | -15 | 184 | -7.3 | -1.0 | -1.8 | 4 | J |
| 22 | 525 | 6.7 | 162 | J | 7.3 | -8 | 176 | -6.4 | 0.2 | -1.0 | 3 | J |
| 23 | 524 | 6.5 | 144 | J | 7.2 | 2 | 186 | -6.8 | -0.6 | 0.4 | 3 | J |
| 24 | 518 | 6.1 | 121 | J | 7.5 | -2 | 186 | -7.2 | -0.8 | -0.1 | 2 | J |

SEP. 20, 1984 264

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 7.8 | -5 | 203 | -7.2 | -3.1 | 0.0 | 1 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 459 | 8.1 | 74 | J | 8.1 | 32 | 145 | -5.3 | 5.3 | 1.3 | 3 | J |
| 10 | 449 | 8.0 | 109 | J | 8.0 | -9 | 161 | -5.9 | 1.1 | -2.0 | 5 | J |
| 11 | 447 | 8.1 | 78 | J | 8.5 | 24 | 118 | -3.4 | 7.1 | -1.0 | 3 | J |
| 12 | | | | | 8.2 | 34 | 107 | -1.8 | 7.3 | 0.1 | 3 | J |
| 13 | 435 | 9.6 | 137 | J | 8.0 | 22 | 122 | -3.1 | 5.5 | -0.8 | 5 | J |
| 14 | 428 | 8.4 | 118 | J | 7.3 | 0 | 156 | -6.1 | 2.3 | -1.4 | 3 | J |
| 15 | 440 | 8.6 | 95 | J | 7.6 | 17 | 135 | -4.9 | 5.3 | -0.6 | 2 | J |
| 16 | 446 | 8.9 | 99 | J | 7.7 | -13 | 150 | -5.9 | 2.3 | -2.9 | 3 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 484 | 6.4 | 128 | J | 5.5 | 5 | 176 | -5.5 | 0.5 | 0.4 | 1 | J |

SEP. 21, 1984 265

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 479 | 6.1 | 135 | J | 4.9 | 15 | 181 | -4.6 | 0.2 | 1.2 | 1 | J |
| 2 | 477 | 6.4 | 141 | J | 5.0 | 15 | 166 | -4.1 | 1.3 | 0.8 | 2 | J |
| 3 | 481 | 5.9 | 95 | J | 4.4 | 25 | 147 | -2.3 | 1.8 | 0.8 | 3 | J |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 443 | 7.4 | 84 | J | 4.5 | 20 | 135 | -2.7 | 3.0 | -0.1 | 2 | J |
| 8 | 427 | 7.5 | 72 | J | 5.4 | 5 | 140 | -3.8 | 3.0 | -1.3 | 2 | J |
| 9 | 458 | 7.7 | 61 | J | 5.2 | -30 | 166 | -3.9 | -0.5 | -2.5 | 2 | J |
| 10 | 450 | 8.7 | 73 | J | 4.9 | -28 | 163 | -4.0 | -0.2 | -2.5 | 1 | J |
| 11 | 452 | 8.8 | 79 | J | 4.6 | -33 | 138 | -2.4 | 0.6 | -3.0 | 2 | J |
| 12 | 462 | 9.4 | 58 | J | 4.9 | -7 | 72 | 1.1 | 2.6 | -2.3 | 3 | J |
| 13 | 472 | 9.8 | 54 | J | 5.4 | 38 | 22 | 3.7 | 3.0 | 1.8 | 2 | J |
| 14 | 461 | 8.5 | 39 | J | 5.5 | 47 | 42 | 2.7 | 4.1 | 2.0 | 1 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

SEP. 22, 1984 266

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 409 | 14.1 | 79 | J | 9.3 | 19 | 331 | 0.8 | -0.2 | 0.5 | 9 | J |
| 11 | 420 | 10.6 | 127 | J | 8.7 | 41 | 96 | -0.4 | 5.4 | 0.6 | 7 | J |
| 12 | 441 | 6.9 | 135 | J | 11.5 | -11 | 129 | -6.7 | 5.7 | -6.4 | 4 | J |
| 13 | 459 | 7.4 | 184 | J | 11.8 | 25 | 160 | -7.0 | 4.0 | 1.5 | 9 | J |
| 14 | 474 | 6.5 | 167 | J | 13.8 | 53 | 171 | -8.0 | 6.7 | 8.5 | 3 | J |
| 15 | 494 | 5.7 | 191 | J | 13.9 | 26 | 160 | -11.7 | 6.7 | 3.2 | 2 | J |
| 16 | 476 | 6.5 | 160 | J | 14.1 | 24 | 148 | -10.6 | 8.4 | 2.0 | 3 | J |
| 17 | 484 | 6.8 | 140 | J | 14.5 | 10 | 158 | -13.0 | 5.8 | 0.2 | 2 | J |
| 18 | | | | | | | | | | | | |
| 19 | 482 | 7.0 | 147 | J | 14.3 | -20 | 173 | -13.2 | 0.1 | -5.1 | 2 | J |
| 20 | 490 | 6.7 | 135 | J | 13.1 | -31 | 166 | -10.9 | 0.8 | -7.2 | 1 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

SEP. 23, 1984 267

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | 542 | 16.1 | 187 | J | 10.8 | -14 | 162 | -9.7 | 2.4 | -3.3 | 3 | J |
| 3 | 533 | 17.9 | 231 | J | 11.6 | -17 | 155 | -9.6 | 3.3 | -4.5 | 3 | J |
| 4 | 554 | 15.5 | 235 | J | 12.5 | -15 | 147 | -7.9 | 3.9 | -4.2 | 9 | J |
| 5 | 580 | 13.7 | 250 | J | 15.6 | -13 | 142 | -11.7 | 7.0 | -6.8 | 3 | J |
| 6 | 612 | 14.0 | 395 | J | 14.9 | -3 | 153 | -10.6 | 4.6 | -3.0 | 9 | J |
| 7 | 654 | 15.2 | 614 | J | 16.3 | 48 | 114 | -4.1 | 13.5 | 5.3 | 6 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 700 | 10.8 | 656 | J | 13.7 | 2 | 137 | -8.0 | 6.5 | -3.6 | 8 | J |
| 15 | 680 | 9.0 | 431 | J | 14.1 | -33 | 150 | -9.4 | 1.3 | -8.8 | 5 | J |
| 16 | 672 | 8.6 | 311 | J | 13.9 | 7 | 143 | -10.1 | 7.5 | -2.0 | 5 | J |
| 17 | 689 | 6.7 | 255 | J | 10.2 | -15 | 153 | -7.4 | 2.5 | -3.7 | 6 | J |
| 18 | 723 | 4.8 | 203 | J | 6.9 | 17 | 172 | -4.0 | 1.0 | 1.0 | 6 | J |
| 19 | 721 | 4.8 | 217 | J | 6.9 | 10 | 216 | -4.2 | -2.6 | 1.8 | 4 | J |
| 20 | 711 | 5.0 | 194 | J | 6.8 | 9 | 177 | -4.7 | 0.4 | 0.7 | 5 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

SEP. 24, 1984 268

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 773 | 4.7 | 212 | J | 7.9 | 1 | 137 | -5.0 | 4.6 | -1.0 | 4 | J |
| 2 | 758 | 4.6 | 177 | J | 7.0 | 1 | 163 | -5.5 | 1.7 | -0.3 | 4 | J |
| 3 | 775 | 4.3 | 160 | J | 6.9 | 5 | 159 | -5.1 | 2.0 | -0.1 | 4 | J |
| 4 | 782 | 4.2 | 177 | J | 6.8 | 14 | 159 | -4.9 | 2.2 | 0.6 | 4 | J |
| 5 | 783 | 4.0 | 178 | J | 6.5 | -17 | 182 | -4.7 | -0.7 | -1.3 | 4 | J |
| 6 | 777 | 3.8 | 182 | J | 6.2 | -22 | 188 | -4.3 | -1.3 | -1.3 | 4 | J |
| 7 | 772 | 3.7 | 148 | J | 6.2 | -4 | 150 | -4.8 | 2.2 | -1.7 | 3 | J |
| 8 | 777 | 3.5 | 186 | J | 6.2 | 11 | 129 | -3.3 | 4.0 | -1.3 | 3 | J |
| 9 | 770 | 3.8 | 151 | J | 5.9 | 9 | 166 | -5.0 | 1.5 | -0.0 | 3 | J |
| 10 | 771 | 3.9 | 150 | J | 6.4 | 4 | 177 | -5.7 | 0.5 | 0.2 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 729 | 3.3 | 182 | J | 6.4 | -1 | 158 | -5.5 | 1.8 | -1.2 | 2 | J |
| 15 | 737 | 3.1 | 159 | J | 6.2 | -7 | 145 | -3.6 | 1.9 | -1.7 | 4 | J |
| 16 | 739 | 3.3 | 189 | J | 6.0 | 7 | 125 | -2.8 | 3.9 | -1.3 | 3 | J |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 722 | 3.5 | 213 | J | 5.9 | 15 | 151 | -3.5 | 2.2 | 0.4 | 4 | J |
| 20 | 713 | 3.7 | 231 | J | 5.7 | 14 | 159 | -3.9 | 1.7 | 0.6 | 4 | J |
| 21 | 748 | 3.5 | 303 | J | 5.2 | 11 | 121 | -1.9 | 3.2 | -0.0 | 4 | J |
| 22 | 739 | 3.4 | 320 | J | 5.2 | -13 | 123 | -2.1 | 3.0 | -1.6 | 3 | J |
| 23 | 712 | 3.4 | 232 | J | 5.5 | 11 | 151 | -4.4 | 2.6 | 0.4 | 2 | J |
| 24 | 700 | 3.5 | 132 | J | 6.0 | 21 | 162 | -5.3 | 2.2 | 1.7 | 0 | J |

SEP. 25, 1984 269

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | 6.3 | -23 | 113 | -2.1 | 3.5 | -4.0 | 3 | J |
| 6 | | | | | | | | | | | | |
| 7 | 683 | 3.8 | 162 | J | 5.6 | -6 | 122 | -2.4 | 3.1 | -2.3 | 3 | J |
| 8 | 667 | 4.3 | 184 | J | 5.3 | 8 | 145 | -3.7 | 2.6 | -0.8 | 2 | J |
| 9 | 676 | 4.7 | 158 | J | 5.5 | 17 | 143 | -3.3 | 2.8 | -0.3 | 3 | J |
| 10 | 671 | 4.7 | 160 | J | 5.6 | 15 | 138 | -3.3 | 3.1 | -0.7 | 3 | J |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 5.4 | -36 | 171 | -3.0 | -0.9 | -2.1 | 4 | J |
| 13 | 656 | 5.1 | 244 | J | 5.3 | -4 | 142 | -3.5 | 2.1 | -1.8 | 3 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 685 | 4.8 | 177 | J | 6.2 | 23 | 176 | -2.8 | 4.4 | 0.3 | 3 | J |
| 18 | 702 | 4.3 | 165 | J | 5.9 | 83 | 166 | -0.7 | 2.1 | 5.2 | 1 | J |
| 19 | 700 | 4.7 | 151 | J | 5.9 | 6 | 105 | -1.1 | 4.0 | -0.8 | 4 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

SEP. 26, 1984 270

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 685 | 4.3 | 151 | J | 6.1 | -3 | 76 | 1.2 | 4.4 | -2.2 | 3 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
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| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

OCT. 2, 1984 276

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | 10.0 | -21 | 11 | 7.5 | -0.3 | -3.3 | 6 | J |
| 15 | 325 | 19.0 | 30 | J | 9.1 | -19 | 11 | 8.4 | 0.0 | -3.4 | 1 | J |
| 16 | 322 | 20.9 | 36 | J | 6.0 | -36 | 36 | 3.7 | 1.0 | -4.1 | 2 | J |
| 17 | 332 | 14.5 | 30 | J | 7.4 | -63 | 338 | 2.9 | -3.5 | -5.2 | 3 | J |
| 18 | 330 | 15.6 | 33 | J | 7.7 | -24 | 275 | 0.5 | -6.8 | -0.5 | 4 | J |
| 19 | 332 | 15.1 | 44 | J | 8.0 | -22 | 345 | 6.9 | -2.6 | -2.2 | 2 | J |
| 20 | 339 | 24.2 | 72 | J | 8.6 | -4 | 344 | 7.9 | -2.3 | 0.0 | 2 | J |
| 21 | 344 | 31.2 | 92 | J | 8.8 | 12 | 7 | 8.1 | 1.4 | 1.5 | 3 | J |
| 22 | | | | | | | | | | | | |
| 23 | 353 | 27.3 | 42 | J | 9.9 | 7 | 336 | 8.4 | -3.4 | 1.9 | 3 | J |
| 24 | 347 | 31.2 | 48 | J | 9.4 | 21 | 342 | 7.1 | -1.7 | 3.3 | 5 | J |

OCT. 3, 1984 277

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 359 | 30.9 | 49 | J | 10.8 | 13 | 42 | 7.2 | 6.8 | 0.7 | 5 | J |
| 2 | 356 | 37.7 | 93 | J | 9.2 | 7 | 8 | 8.2 | 1.4 | 0.7 | 4 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 362 | 28.2 | 54 | J | 9.5 | -35 | 309 | 4.8 | -7.8 | -1.8 | 2 | J |
| 8 | 364 | 25.8 | 51 | J | 9.8 | -33 | 294 | 3.1 | -8.5 | -0.6 | 3 | J |
| 9 | 356 | 23.9 | 40 | J | 11.5 | -3 | 292 | 3.9 | -8.4 | 4.9 | 4 | J |
| 10 | 370 | 19.2 | 27 | J | 13.2 | 40 | 268 | -0.3 | -3.3 | 11.7 | 5 | J |
| 11 | 372 | 15.5 | 44 | J | 12.3 | -43 | 305 | 4.8 | -10.1 | -2.6 | 4 | J |
| 12 | 382 | 12.5 | 141 | J | 9.2 | 1 | 302 | 3.5 | -4.6 | 3.3 | 6 | J |
| 13 | 381 | 13.7 | 131 | J | 8.6 | 28 | 309 | 4.2 | -2.4 | 5.8 | 4 | J |
| 14 | 379 | 13.3 | 107 | J | 9.2 | 9 | 289 | 2.2 | -5.0 | 4.2 | 6 | J |
| 15 | | | | | | | | | | | | |
| 16 | 387 | 13.0 | 78 | J | 8.9 | -31 | 282 | 1.5 | -8.1 | -0.8 | 3 | J |
| 17 | 390 | 13.2 | 83 | J | 7.5 | 54 | 324 | 2.0 | -0.0 | 3.7 | 6 | J |
| 18 | 382 | 12.8 | 73 | J | 7.2 | 43 | 305 | 2.7 | -2.1 | 5.5 | 3 | J |
| 19 | 378 | 12.1 | 71 | J | 7.0 | 2 | 310 | 3.8 | -4.3 | 1.5 | 4 | J |
| 20 | 371 | 10.8 | 48 | J | 6.9 | -17 | 337 | 5.7 | -2.8 | -1.2 | 2 | J |
| 21 | 374 | 10.7 | 42 | J | 7.2 | 4 | 327 | 5.4 | -3.3 | 1.2 | 3 | J |
| 22 | 374 | 10.1 | 42 | J | 7.6 | -13 | 312 | 4.5 | -5.2 | -0.5 | 3 | J |
| 23 | 373 | 10.4 | 42 | J | 7.4 | -14 | 315 | 4.7 | -5.0 | -0.7 | 3 | J |
| 24 | 371 | 10.3 | 37 | J | 7.4 | -17 | 314 | 4.7 | -5.2 | -1.0 | 2 | J |

OCT. 4, 1984 278

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 383 | 12.4 | 33 | J | 7.0 | 56 | 265 | -0.3 | -2.0 | 5.2 | 4 | J |
| 2 | 385 | 11.8 | 36 | J | 6.6 | 45 | 249 | -1.5 | -2.8 | 5.2 | 2 | J |
| 3 | 382 | 12.0 | 35 | J | 6.6 | 37 | 266 | -0.3 | -3.4 | 4.8 | 3 | J |
| 4 | 385 | 12.6 | 37 | J | 6.5 | 38 | 258 | -1.0 | -3.2 | 5.3 | 1 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 355 | 11.3 | 83 | J | 5.9 | 2 | 337 | 5.1 | -1.7 | 1.4 | 2 | J |
| 11 | 358 | 11.7 | 60 | J | 6.0 | 9 | 322 | 4.0 | -2.1 | 2.4 | 3 | J |
| 12 | | | | | | | | | | | | |
| 13 | 354 | 13.2 | 57 | J | 6.3 | -29 | 339 | 4.5 | -2.9 | -1.3 | 3 | J |
| 14 | 346 | 12.9 | 67 | J | 6.3 | -7 | 337 | 5.4 | -2.3 | 0.6 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 374 | 18.4 | 28 | J | 5.4 | 20 | 263 | -0.6 | -3.7 | 3.5 | 2 | J |
| 18 | 373 | 18.9 | 41 | J | 4.3 | -7 | 287 | 1.0 | -3.2 | 0.7 | 3 | J |
| 19 | 371 | 19.2 | 51 | J | 4.5 | -30 | 324 | 2.2 | -2.0 | -1.0 | 3 | J |
| 20 | 371 | 20.0 | 49 | J | 4.1 | 51 | 277 | 0.3 | -1.3 | 3.0 | 2 | J |
| 21 | 365 | 20.7 | 65 | J | 3.1 | -5 | 351 | 2.6 | -0.4 | -0.1 | 2 | J |
| 22 | 368 | 20.9 | 50 | J | 3.7 | -37 | 345 | 2.5 | -1.0 | -1.7 | 2 | J |
| 23 | 366 | 20.6 | 49 | J | 4.7 | -10 | 300 | 1.9 | -3.3 | -0.0 | 3 | J |
| 24 | 367 | 21.0 | 41 | J | 4.4 | 43 | 309 | 1.2 | -1.1 | 2.0 | 4 | J |

OCT. 5, 1984 279

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 372 | 27.5 | 20 | J | 5.2 | -16 | 331 | 3.9 | -2.4 | -0.8 | 2 | J |
| 2 | 369 | 28.2 | 17 | J | 5.7 | -16 | 331 | 4.4 | -2.7 | -0.8 | 2 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 339 | 30.6 | 41 | J | 8.4 | 44 | 358 | 5.8 | 2.0 | 5.3 | 2 | J |
| 18 | 344 | 30.9 | 52 | J | 8.6 | 28 | 318 | 5.4 | -3.3 | 5.3 | 3 | J |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

OCT. 6, 1984 280

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 411 | 18.9 | 46 | J | 16.8 | 28 | 347 | 11.8 | 1.0 | 6.9 | 10 | J |
| 9 | | | | | 16.8 | 16 | 31 | 13.8 | 9.5 | -0.6 | 0 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 405 | 22.7 | 77 | J | 14.6 | 20 | 316 | 9.3 | -7.2 | 7.1 | 5 | J |
| 20 | 407 | 24.3 | 75 | J | 14.0 | 0 | 301 | 6.9 | -11.1 | 2.9 | 4 | J |
| 21 | 406 | 25.5 | 98 | J | 13.2 | -23 | 325 | 7.2 | -5.7 | -2.5 | 9 | J |
| 22 | 394 | 28.4 | 195 | J | 12.9 | -30 | 350 | 10.2 | -3.0 | -5.5 | 5 | J |
| 23 | 397 | 23.1 | 119 | J | 11.6 | -7 | 315 | 8.1 | -8.2 | 0.2 | 2 | J |
| 24 | | | | | | | | | | | | |

OCT. 7, 1984 281

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 471 | 10.3 | 171 | J | 17.4 | 36 | 309 | 8.8 | -4.6 | 14.1 | 3 | J |
| 8 | 481 | 11.3 | 240 | J | 16.5 | 42 | 312 | 7.8 | -2.0 | 13.4 | 5 | J |
| 9 | 488 | 11.9 | 275 | J | 14.3 | -7 | 307 | 7.6 | -9.3 | 4.2 | 7 | J |
| 10 | 499 | 11.4 | 297 | J | 13.6 | -24 | 309 | 7.2 | -10.3 | 0.7 | 5 | J |
| 11 | 505 | 8.7 | 259 | J | 13.5 | -8 | 319 | 9.6 | -7.9 | 3.2 | 4 | J |
| 12 | 515 | 7.4 | 98 | J | 12.9 | -7 | 318 | 9.0 | -7.6 | 3.3 | 4 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | 647 | 5.7 | 248 | J | 8.2 | 4 | 283 | 1.7 | -6.8 | 2.3 | 4 | J |
| 21 | 612 | 5.2 | 168 | J | 8.2 | -9 | 316 | 5.5 | -5.5 | -0.0 | 3 | J |
| 22 | 619 | 5.0 | 184 | J | 7.5 | -2 | 318 | 5.1 | -4.6 | 0.7 | 3 | J |
| 23 | 625 | 4.6 | 168 | J | 7.2 | -25 | 320 | 4.4 | -4.1 | -1.9 | 3 | J |
| 24 | 657 | 4.3 | 239 | J | 10.1 | -48 | 347 | 6.5 | -2.9 | -6.9 | 2 | J |

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10/08/84 – 10/19/84

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HR  VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
              1000  SC MAGN LAT LON                    SC                1000  SC MAGN LAT LON                    SC

                           OCT.  8, 1984          282                                 OCT.  9, 1984          283

 1  709  5.2 332  J   7.7 -45   5    4.8  -0.6  -4.8  4  J
 2
 3
 4
 5
 6
 7
 8
 9  669  4.8 177  J   8.3  -7 321    5.7  -4.4   1.7  4  J
10  696  4.9 153  J   6.9 -14 349    5.2  -1.6  -0.5  4  J
11  706  5.3 231  J   6.8  12 340    4.5  -0.8   1.8  5  J    719  3.4 179  J
12  695  4.8 167  J   7.3  28 352    5.3   1.0   2.8  4  J    702  3.8 209  J
13  715  4.3 292  J   6.2  55 297    1.3   0.0   4.8  4  J
14
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22
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                           OCT. 14, 1984          288                                 OCT. 15, 1984          289

 1
 2
 3
 4
 5                                                              513  5.7  74  J   6.0 -39 314    3.2  -4.5  -2.2  1  J
 6                                                              510  6.0  73  J   6.1 -18 323    3.9  -3.4  -0.2  3  J
 7                                                              499  5.0  63  J   5.8  17 324    4.1  -1.9   2.8  2  J
 8                                                              498  5.4  71  J   6.2   7 318    4.1  -2.9   2.5  2  J
 9
10
11
12
13                                                              445 10.7  65  J   6.6 -10 310    3.9  -4.5   1.5  2  J
14                                                              461 12.0  65  J   6.7  -4 303    3.2  -4.5   2.1  3  J
15                                                              445 12.1 105  J   6.8  -8 328    5.4  -3.4   0.7  2  J
16                                                              456 17.6  51  J   6.4  -2 320    4.3  -3.4   1.3  3  J
17                                                              459 19.9  59  J   5.8 -31 335    3.7  -2.5  -1.6  3  J
18                                                              458 19.6  33  J   6.7   6 329    4.0  -2.1   1.2  5  J
19                                                              446 13.1  60  J   7.9 -13 330    6.4  -4.0  -0.6  2  J
20                                                              460 11.3  71  J   8.2 -30 349    6.5  -2.1  -3.4  2  J
21                                                              485 13.0  83  J   7.7 -41  63    2.3   3.5  -5.1  4  J
22  559  8.6 175  J   6.4 -27 309    3.0  -4.1  -1.7  3  J    459 11.3  80  J   7.4 -26 339    6.2  -2.9  -2.8  1  J
23  523  9.3 397  J   6.0 -17 349    5.4  -1.3  -1.5  2  J    464 11.5  86  J   7.1 -36  23    4.8   1.3  -4.1  3  J
24  526  8.2 231  J   5.9 -27 340    4.8  -2.2  -2.2  2  J    473 12.8  87  J   6.2 -15  71    1.8   4.9  -2.4  3  J

                           OCT. 16, 1984          290                                 OCT. 17, 1984          291

 1  474 12.7  94  J   4.9  30  62    1.6   3.3   1.3  3  J
 2  481 14.4  88  J   4.8  28  66    1.1   2.8   0.8  4  J
 3
 4
 5
 6
 7
 8  475  5.3  69  J   7.3  -1 133   -4.8   4.4  -2.7  2  J
 9  463  5.5  56  J   7.8  15 133   -5.0   5.6  -1.2  1  J
10  476  6.6  78  J   7.3 -19 122   -3.5   3.4  -4.9  2  J
11                    7.4 -26 114   -2.7   3.3  -6.0  1  J
12
13
14
15
16
17  450  6.3  74  J   5.9   6 139   -4.1   3.5  -0.8  2  J
18  451  5.9  85  J   5.1   3 166   -4.6   1.2  -0.1  2  J
19  444  5.9  84  J   5.1   1 165   -4.6   1.2  -0.3  1  J
20  447  5.1  82  J   4.5  -1 166   -4.1   1.0  -0.3  1  J    359  7.7  16  J   2.7 -19 317    1.9  -1.9  -0.5  1  J
21  448  5.8  95  J   5.2   5 153   -4.1   2.1  -0.0  2  J    358  7.9  17  J   3.4  -4 315    2.3  -2.3   0.2  1  J
22  453  6.4  90  J   5.3 -17 150   -4.1   2.1  -1.9  2  J    356 10.6  19  J   3.6   3 320    2.6  -2.1   0.6  1  J
23  444  5.5  85  J   5.3 -20 143   -3.8   2.5  -2.2  1  J    356 11.7  19  J   3.9  38 334    2.5  -0.8   2.4  2  J
24                                                              355 12.2  17  J   3.9  53 359    2.2   0.5   2.9  1  J

                           OCT. 18, 1984          292                                 OCT. 19, 1984          293

 1  375 13.8  23  J   4.8  71  35    1.1   1.5   3.7  3  J    481 17.5 189  J  19.7 -14 127   -9.8  12.0  -6.5 10  J
 2  377 12.6  26  J   5.9  50  59    1.9   4.1   3.6  1  J    492 19.7 222  J  16.8   4 132   -9.7  10.8  -1.4  8  J
 3  378 22.2  55  J   5.0 -35 172   -3.0  -0.2  -2.2  3  J    512 14.4 211  J  14.8   3 145  -11.8   8.2  -1.5  4  J
 4  395 21.7  68  J   7.1  -1  95   -0.5   5.3  -1.9  4  J    532 12.8 225  J  12.3 -10 153   -9.7   4.1  -3.4  5  J
 5  394 22.6  72  J   8.1  24  92   -0.2   6.1   0.3  6  J    533 11.5 240  J  10.5  -1 161   -9.3   2.9  -1.3  4  J
 6  393 23.0  75  J   8.9  19  85    0.6   6.7  -0.7  6  J    587  9.8 140  J  12.1  -3 153  -10.7   4.7  -2.8  2  J
 7                                                              604  9.7 142  J  12.3  -1 162  -11.2   3.1  -1.9  4  J
 8                                                              612 10.0 199  J  12.9   9 148  -10.4   6.6  -1.5  3  J
 9                                                              621 10.7 259  J  13.7  -1 137   -9.3   7.3  -4.7  5  J
10
11
12
13
14
15
16
17
18  400 14.7 173  J   8.3 -12 125   -2.7   3.4  -2.2  7  J
19  402 16.2 144  J  12.0 -14 123   -4.9   6.7  -4.2  8  J
20
21
22                                                                                  9.7  19 159   -7.9   3.5   2.4  4  J
23                   15.4  51 129   -6.0   9.2  10.3  3  J
24  422 37.7  43  J  19.2  30 128   -6.6   9.4   4.6 15  J
```

## 10/20/84 – 10/31/84

### OCT. 20, 1984
294

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 754 | 5.0 | 303 | J | 7.2 | -5 | 127 | -3.4 | 3.7 | -2.7 | 4 | J |
| 9 | 695 | 5.3 | 119 | J | 6.9 | 14 | 165 | -5.4 | 2.0 | 0.4 | 4 | J |
| 10 | 730 | 5.2 | 140 | J | 6.7 | 8 | 130 | -3.2 | 3.6 | -1.4 | 4 | J |
| 11 | | | | | 6.5 | 5 | 138 | -4.7 | 3.8 | -1.8 | 2 | J |
| 12 | | | | | 6.7 | -21 | 179 | -5.8 | -1.1 | -1.9 | 3 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | 6.3 | 10 | 192 | -5.6 | -0.9 | 1.2 | 2 | J |
| 21 | | | | | 5.9 | 35 | 109 | -1.5 | 4.8 | 2.3 | 2 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

### OCT. 21, 1984
295

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | 4.5 | -3 | 232 | -2.3 | -2.9 | 0.6 | 3 | J |
| 4 | | | | | 5.9 | -1 | 175 | -4.2 | 0.3 | -0.2 | 4 | J |
| 5 | | | | | 5.8 | -41 | 176 | -3.8 | -0.9 | -3.2 | 3 | J |
| 6 | 747 | 4.7 | 246 | J | 5.9 | -18 | 140 | -2.8 | 1.7 | -2.1 | 4 | J |
| 7 | | | | | 5.7 | 14 | 189 | -4.8 | -0.1 | 1.4 | 3 | J |
| 8 | | | | | 5.9 | 20 | 196 | -3.8 | -0.2 | 1.8 | 4 | J |
| 9 | | | | | | | | | | | | |
| 10 | | | | | 5.5 | 6 | 301 | 2.0 | -2.6 | 2.1 | 4 | J |
| 11 | 709 | 4.8 | 163 | J | 6.2 | 12 | 142 | -3.8 | 3.0 | -0.7 | 4 | J |
| 12 | 707 | 4.8 | 171 | J | 6.1 | -20 | 182 | -4.8 | -1.1 | -1.4 | 3 | J |
| 13 | | | | | 6.4 | -29 | 217 | -3.8 | -3.8 | -0.8 | 3 | J |
| 14 | | | | | 6.7 | -44 | 207 | -4.0 | -3.8 | -2.8 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | 696 | 3.9 | 111 | J | 6.2 | -38 | 225 | -3.2 | -4.0 | -2.6 | 2 | J |
| 20 | 699 | 4.0 | 105 | J | 6.2 | -36 | 234 | -1.9 | -3.1 | -1.7 | 5 | J |
| 21 | | | | | 6.4 | -22 | 281 | 0.9 | -4.9 | -1.0 | 4 | J |
| 22 | | | | | | | | | | | | |
| 23 | 733 | 4.9 | 125 | J | 5.6 | -47 | 133 | -1.3 | 1.1 | -2.2 | 5 | J |
| 24 | | | | | | | | | | | | |

### OCT. 22, 1984
296

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | 6.8 | 66 | 21 | 2.4 | 2.6 | 5.1 | 3 | J |
| 5 | | | | | 6.2 | 33 | 129 | -3.0 | 4.6 | 1.6 | 2 | J |
| 6 | 697 | 4.2 | 115 | J | 6.0 | 25 | 113 | -1.7 | 4.6 | 0.2 | 3 | J |
| 7 | 713 | 4.4 | 143 | J | | | | | | | | |
| 8 | 699 | 4.2 | 166 | J | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
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| 17 | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

### OCT. 27, 1984
301

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 265 | 23.8 | 471 | L | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | 431 | 8.2 | 105 | L | | | | | | | | |
| 18 | 434 | 8.5 | 124 | J | 5.5 | 12 | 13 | 5.0 | 1.4 | 0.7 | 2 | J |
| 19 | 431 | 8.3 | 141 | J | 5.3 | 12 | 18 | 4.5 | 1.6 | 0.6 | 2 | J |
| 20 | 435 | 10.1 | 123 | J | 6.6 | 35 | 352 | 4.9 | -0.0 | 3.6 | 2 | J |
| 21 | 442 | 10.9 | 103 | J | 7.1 | 46 | 17 | 4.4 | 2.1 | 4.5 | 3 | J |
| 22 | 429 | 11.5 | 146 | J | 7.1 | 31 | 354 | 5.7 | -0.1 | 3.5 | 2 | J |
| 23 | 434 | 10.0 | 112 | J | 6.7 | 37 | 22 | 4.7 | 2.4 | 3.5 | 2 | J |
| 24 | 426 | 9.3 | 99 | J | 6.6 | 25 | 37 | 4.6 | 3.8 | 2.2 | 1 | J |

### OCT. 28, 1984
302

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 423 | 13.2 | 351 | J | 5.5 | -33 | 356 | 3.9 | -0.7 | -2.5 | 3 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 462 | 9.1 | 195 | J | 5.8 | -30 | 20 | 4.6 | 0.3 | -3.3 | 1 | J |
| 8 | 459 | 8.7 | 93 | J | 6.9 | -60 | 322 | 2.0 | -3.5 | -3.1 | 5 | J |
| 9 | 475 | 10.7 | 211 | J | 6.5 | 48 | 338 | 4.0 | 1.0 | 4.9 | 2 | J |
| 10 | 451 | 8.5 | 91 | J | 7.6 | 4 | 330 | 5.6 | -2.5 | 2.1 | 4 | J |
| 11 | 441 | 8.2 | 94 | J | 7.4 | 11 | 350 | 6.5 | -0.3 | 1.7 | 3 | J |
| 12 | 436 | 7.2 | 94 | J | 6.6 | 16 | 349 | 6.1 | -0.1 | 2.1 | 1 | J |
| 13 | 443 | 7.5 | 91 | J | 6.1 | -11 | 324 | 4.1 | -3.0 | 0.6 | 3 | J |
| 14 | 466 | 8.1 | 77 | J | 4.9 | -5 | 283 | 1.0 | -4.2 | 1.7 | 2 | J |
| 15 | 458 | 8.0 | 90 | J | 5.0 | -1 | 292 | 1.6 | -3.7 | 1.6 | 2 | J |
| 16 | 454 | 8.8 | 81 | J | 5.4 | 9 | 298 | 2.2 | -3.6 | 2.3 | 2 | J |
| 17 | 460 | 7.5 | 59 | J | 5.6 | -1 | 277 | 0.6 | -4.7 | 1.5 | 3 | J |
| 18 | 462 | 8.4 | 93 | J | 4.5 | -68 | 293 | 0.4 | -1.4 | -1.9 | 4 | J |
| 19 | 450 | 7.9 | 101 | J | 4.2 | -27 | 337 | 3.0 | -1.6 | -1.3 | 2 | J |
| 20 | 473 | 8.7 | 94 | J | 4.7 | -47 | 260 | -0.2 | -1.5 | -1.1 | 4 | J |
| 21 | 466 | 8.1 | 83 | J | 5.6 | -9 | 278 | 0.7 | -5.2 | -0.0 | 2 | J |
| 22 | 460 | 8.9 | 79 | J | 5.9 | 5 | 292 | 1.8 | -4.4 | 1.0 | 3 | J |
| 23 | 448 | 9.3 | 104 | J | 5.1 | 2 | 346 | 4.7 | -1.1 | 0.3 | 2 | J |
| 24 | 453 | 9.8 | 102 | J | 5.1 | 20 | 6 | 4.3 | 0.7 | 1.5 | 2 | J |

### OCT. 29, 1984
303

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 450 | 10.7 | 107 | J | 6.3 | -15 | 288 | 1.6 | -5.2 | -0.6 | 3 | J |
| 2 | 443 | 11.0 | 121 | J | 5.9 | -19 | 309 | 3.1 | -4.1 | -0.9 | 3 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 418 | 10.3 | 74 | J | 5.6 | 20 | 301 | 2.5 | -2.8 | 3.5 | 2 | J |
| 9 | 439 | 10.1 | 87 | J | 5.2 | -14 | 234 | -2.5 | -3.5 | 0.8 | 3 | J |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 376 | 9.5 | 38 | J | 5.6 | 14 | 324 | 3.6 | -2.2 | 1.8 | 3 | J |
| 19 | 373 | 9.8 | 34 | J | 6.1 | 20 | 5 | 5.2 | 0.9 | 1.8 | 2 | J |
| 20 | 388 | 10.1 | 62 | J | 6.4 | -18 | 300 | 2.9 | -5.3 | -0.9 | 2 | J |
| 21 | 387 | 10.6 | 65 | J | 6.8 | -12 | 307 | 3.8 | -5.1 | -0.5 | 2 | J |
| 22 | 394 | 11.2 | 46 | J | 6.5 | -18 | 293 | 2.2 | -5.5 | -1.1 | 3 | J |
| 23 | 395 | 11.3 | 45 | J | 7.0 | -16 | 276 | 0.7 | -6.5 | -1.0 | 2 | J |
| 24 | 395 | 12.4 | 55 | J | 6.6 | -19 | 275 | 0.5 | -5.4 | -1.1 | 4 | J |

### OCT. 30, 1984
304

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 385 | 11.0 | 36 | J | 7.0 | 1 | 277 | 0.5 | -4.2 | 0.7 | 5 | J |
| 2 | 371 | 10.0 | 27 | J | 7.1 | 15 | 342 | 6.4 | -1.7 | 2.2 | 1 | J |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 377 | 11.6 | 78 | J | 5.3 | -8 | 330 | 4.4 | -2.5 | 0.6 | 1 | J |
| 13 | 378 | 11.9 | 69 | J | 5.3 | 15 | 326 | 4.0 | -1.7 | 2.4 | 2 | J |
| 14 | 381 | 11.7 | 59 | J | 5.0 | 13 | 309 | 2.8 | -2.6 | 2.4 | 2 | J |
| 15 | 379 | 10.9 | 82 | L | 4.1 | 22 | 331 | 3.3 | -1.1 | 2.2 | 1 | J |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | 348 | 12.2 | 72 | J | 4.0 | 17 | 325 | 2.6 | -1.6 | 1.2 | 2 | J |
| 22 | 338 | 11.6 | 26 | J | 4.3 | 13 | 338 | 3.7 | -1.4 | 1.1 | 1 | J |
| 23 | 345 | 11.8 | 36 | J | 4.6 | 28 | 306 | 1.9 | -2.3 | 2.0 | 3 | J |
| 24 | 338 | 11.7 | 31 | J | 3.9 | 3 | 307 | 1.9 | -2.5 | 0.5 | 2 | J |

### OCT. 31, 1984
305

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 334 | 10.9 | 22 | J | 4.5 | 5 | 341 | 4.1 | -1.3 | 0.6 | 1 | J |
| 2 | 331 | 10.3 | 22 | J | 4.6 | 14 | 335 | 4.0 | -1.6 | 1.4 | 1 | J |
| 3 | 335 | 11.7 | 21 | J | 4.1 | 50 | 288 | 0.7 | -1.4 | 2.9 | 2 | J |
| 4 | 324 | 11.6 | 27 | J | 3.5 | 32 | 304 | 1.4 | -1.6 | 2.1 | 2 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 338 | 44.6 | 15 | J | 3.9 | 53 | 357 | 2.3 | 0.7 | 3.0 | 1 | J |
| 19 | 342 | 41.7 | 19 | J | 4.7 | 48 | 6 | 2.5 | 0.8 | 2.6 | 3 | J |
| 20 | 351 | 27.9 | 39 | J | 6.3 | 14 | 121 | -2.7 | 4.7 | 0.5 | 3 | J |
| 21 | 360 | 29.3 | 37 | J | 6.7 | 45 | 91 | -0.1 | 5.3 | 3.9 | 1 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | 426 | 17.9 | 161 | J | 10.0 | -1 | 91 | -0.2 | 8.7 | -1.2 | 5 | J |

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HR  VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
              1000  SC  MAGN LAT LON                      SC                 1000  SC  MAGN LAT LON                      SC

                        NOV.  1, 1984                    306                           NOV.  2, 1984                    307

 1  429 22.9 148  J   8.8  34  38   3.4   3.0   2.5  7  J    491 13.5 321  J  20.2  40 316  10.9  -8.7  14.0  4  J
 2  445 20.4 125  J   9.2   7 101  -1.2   6.0  -0.3  7  J    490 14.8 411  J  19.0  27 323  13.2  -8.4  10.0  4  J
 3  456 21.4  93  J   7.6  18  41   4.6   4.3   1.1  4  J    497 14.9 336  J  18.8  31 330  12.9  -5.4  10.3  7  J
 4  437 20.1 100  J   7.2   7  72   2.1   6.4  -0.9  2  J
 5  434 25.4  95  J   7.7   3  94  -0.4   5.2  -1.5  5  J    402  9.4 173  J  24.2  39 328  15.2  -3.4  17.0  8  J
 6  451 33.9  95  J  11.1  27  64   3.3   7.7   1.0  7  J    401 11.4 259  J  22.3  33 286   4.9 -10.7  17.6  7  J
 7  473 49.4  87  J  15.2 -22  90   0.0   8.7  -9.3  9  J    413 13.1 322  J  20.4  32 288   5.2  -9.5  16.7  5  J
 8  457 55.2  80  J  17.4   7 185 -11.4  -0.2   1.7 14  J    407  9.8 170  J  22.3  29 292   7.3 -10.6  18.1  2  J
 9  459 70.6  32  J  16.9   5  51   9.8  11.2  -4.7  7  J                     19.8  14 295   7.8 -12.3  12.4  6  J
10
11                                                           562  7.2  90  J  10.1  10 308   5.8  -5.6   5.0  3  J
12
13
14
15
16
17
18
19  447 13.4  91  J  21.1  46 343  13.8  -0.9  15.4  4  J    521  7.2 105  J   9.9  -3 329   8.1  -4.9   0.5  3  J
20  453  9.7  81  J  21.7  49 330  12.0  -4.1  16.9  5  J    546  7.3 126  J  10.0   6 308   5.7  -7.0   2.2  4  J
21  454  9.4  95  J  22.4  48 329  12.3  -5.1  16.9  7  J    570  7.7 135  J   9.7  21 298   3.2  -5.7   3.5  6  J
22  470  6.4 109  J  23.0  50 335  13.2  -4.0  18.0  4  J    606  8.1 198  J   9.5 -49 246  -2.4  -6.1  -6.1  2  J
23  455  8.5 119  J  22.6  45 316  11.5  -9.2  17.1  2  J    557  7.5 156  J   9.0  -2 309   4.8  -6.0   0.4  5  J
24  483 14.0 197  J  20.0  40 316  10.8  -8.9  13.7  5  J    545  7.4 129  J   9.2  12 316   5.9  -5.5   2.4  4  J

                        NOV.  3, 1984                    308                           NOV.  4, 1984                    309

 1  587  8.0 150  J   9.8  19 288   2.5  -7.4   3.8  4  J
 2
 3
 4
 5                                                                            9.8   5 321   6.7  -4.9   2.4  5  J
 6
 7
 8
 9
10
11
12
13                    8.9  -9  13   6.5   0.8  -1.6  6  J
14  553  9.6 155  J   8.8  34  40   3.6   4.1   1.6  7  J
15  555 10.1 203  J   7.6 -21  24   4.3   1.1  -2.4  6  J
16  559  9.2 175  J   8.8  34 331   4.7  -1.2   4.3  6  J
17
18
19
20
21
22  575  8.7 268  J   8.5  41 358   6.2   0.4   5.4  1  J
23  590  7.6 161  J   8.7  32 309   3.9  -4.4   4.3  5  J
24  590  7.4 184  J   9.3  -3 303   4.6  -7.0   0.3  4  J

                        NOV. 10, 1984                    315                           NOV. 11, 1984                    316

 1
 2
 3
 4                                                           597  5.3 216  J   6.0  -1 334   4.9  -2.3   0.4  2  J
 5                                                           582  5.3 212  J   5.8   2 337   5.0  -2.0   0.8  2  J
 6                                                           576  5.0 141  J   6.1  -3 347   5.4  -1.3   0.1  2  J
 7  635  4.1 129  J   5.6  19 294   1.9  -3.3   3.1  2  J    569  6.0  91  J   7.1  12 354   6.5  -0.1   1.5  3  J
 8  634  5.6 126  J   4.7  19 275   0.3  -2.6   2.6  3  J
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                        NOV. 12, 1984                    317                           NOV. 14, 1984                    319

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 5  538  5.4  83  J   8.3  -6 358   8.2  -0.5  -0.7  1  J
 6  570  4.6 165  J   6.3   6 309   3.1  -3.4   1.7  4  J
 7  600  5.0 230  J   6.1  -4 311   2.7  -3.0   0.9  4  J
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13
14  508  4.8 171  L   4.6  -5 360   3.6  -0.1  -0.3  3  J
15                    5.0  14 311   2.9  -2.7   2.2  2  J
16  519  3.8 103  J   5.0  13 293   1.7  -3.5   2.2  3  J
17                    4.5  21 329   3.5  -1.6   2.1  1  J
18  508  3.1  71  J   4.6  15 343   4.2  -1.0   1.4  1  J
19                                                           450 16.0  46  J   7.2  29  51   3.7   5.0   2.5  3  J
20                                                           453 18.2  45  J   6.5   5  43   4.3   4.0   0.1  2  J
21                                                           446 18.9  55  J   5.6  39   7   4.1   0.7   3.3  2  J
22                                                           420 15.5  40  J   7.7  22 122  -3.3   5.5   2.3  4  J
23                                                           442 15.6  47  J   7.1  50  68   1.5   3.9   4.6  3  J
24                                                           439 19.3  59  J   8.2  29  95  -0.5   5.5   2.8  6  J
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11/15/84 – 12/05/84

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HR      VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF      VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                  1000 SC  MAGN LAT LON                      SC                1000 SC  MAGN LAT LON                      SC

                          NOV. 15, 1984                      320                        NOV. 16, 1984                      321

 1      480 19.5  71  J   16.7  31 106  -3.6  13.2   7.1  6  J        576 10.9 220  J   18.7 -38 211 -11.5  -7.5 -10.0  8  J
 2      479 22.6  79  J   17.1  19 108  -4.9  15.6   4.0  3  J                          17.6 -30 164 -14.4   3.3  -9.0  3  J
 3                                                                                      15.5 -27 172 -12.9   0.9  -6.8  5  J
 4                                                                                      13.8 -35 178  -9.6  -1.0  -6.7  7  J
 5                                                                                      12.8 -42 121  -2.2   2.6  -4.6 11  J
 6                                                                                      14.1 -85 239  -0.3  -2.7  -6.5 12  J
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18      523 22.9 171  J   14.5  -2  86   0.9  12.3  -2.8  7  J
19      517 26.6 126  J   13.9  -7  88   0.5  12.7  -3.4  4  J
20      533 27.8 158  J   14.2  21  28   8.6   4.9   3.3 10  J
21      515 28.2  98  J   16.4  11 121  -7.8  13.1   2.1  6  J
22      517 22.9  97  J   18.8 -19 145 -13.7   9.3  -6.2  6  J                           6.0 -13 156  -4.8   2.1  -1.3  2  J
23      509 15.8  42  J   19.7 -25 171 -17.4   2.5  -8.3  3  J
24      549 14.8  81  J   20.5 -41 202 -13.1  -5.8 -12.0  8  J

                          NOV. 22, 1984                      327                        NOV. 25, 1984                      330

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 8      492 12.2  59  J    6.2  13 143  -4.1   3.3  -0.0  3  J
 9      499 14.6  69  J    4.7   0 139  -3.0   2.4  -1.0  3  J
10      492 12.3  81  J    6.0 -10 150  -4.1   1.8  -1.7  4  J
11      493 12.1  80  J    6.0 -22 152  -3.9   1.2  -2.5  3  J
12      507 15.8  58  J    4.1 -27 169  -1.8  -0.0  -1.0  4  J
13      504 17.1  57  J    3.2  29 130  -1.2   1.7   0.4  3  J
14      497 16.0  70  J    4.6  28 132  -2.2   3.0   0.8  3  J
15      491 12.0  77  J    6.1  21 167  -5.4   1.8   1.6  2  J
16                                                                    374 24.6  35  J    5.2 -11   6   4.3   0.2  -0.9  3  J
17                                                                    378 32.5  81  J    4.4  46 354   2.6   0.2   2.7  2  J
18                                                                                       2.6  46 357   1.2   0.1   1.2  2  J
19                                                                                       2.2 -50 222  -0.8  -0.8  -1.2  2  J
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                          NOV. 27, 1984                      332                        NOV. 28, 1984                      333

 1                         4.3  21 351   4.0  -0.7   1.5  0  J                           7.1   8 113  -2.6   6.2   1.1  2  J
 2                                                                                       8.1   1 130  -5.1   6.1   0.1  1  J
 3                                                                                       7.7   3 136  -5.1   4.9   0.1  3  J
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                          NOV. 29, 1984                      334                        DEC.  5, 1984                      340

 1
 2                         4.1  57 193  -2.1  -0.5   3.4  1  J
 3                         4.6  67 133  -1.1   1.4   3.8  2  J
 4                         5.3  57  98  -0.4   3.1   3.9  2  J
 5                         6.9  66 126  -1.6   3.1   5.6  2  J
 6
 7                                                                    746  3.7 246  J    6.2  13 318   3.3  -2.7   1.7  4  J
 8                                                                    710  3.8 140  J    6.7   6 329   4.5  -2.5   1.3  4  J
 9                                                                    726  4.0 195  J    6.5 -18 348   5.2  -1.6  -1.3  3  J
10                                                                    740  3.9 240  J    5.7 -12   4   5.4  -0.0  -1.2  2  J
11                                                                    726  4.3 273  J    6.0 -12 349   5.3  -1.3  -0.7  2  J
12                                                                    726  2.7 151  J    5.4  14 323   3.4  -2.1   1.8  3  J
13                                                                    723  3.9 124  J    5.8   1 360   5.4   0.0   0.1  2  J
14                                                                    700  3.8 121  J    6.0  -7 358   5.3  -0.3  -0.6  3  J
15                                                                    695  3.9 137  J    6.1   8 321   4.3  -3.2   1.5  2  J
16                                                                    708  3.8 209  J    6.3   5 304   2.8  -4.0   1.1  4  J
17                                                                    689  3.7 188  J    5.9   4 342   4.0  -1.3   0.4  4  J
18                                                                    696  3.7 199  J    5.7 -39 317   2.7  -2.7  -2.9  3  J
19
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21                                                                    653  5.0 181  J    8.1   6 306   4.6  -6.3   0.4  3  J
22                                                                    662  4.0 132  J    7.4   0 321   4.5  -3.6  -0.3  5  J
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12/06/84 – 12/18/84

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HR   VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
         1000  SC  MAGN LAT LON                    SC               1000  SC  MAGN LAT LON                    SC

                 DEC.  6, 1984                    341                        DEC.  7, 1984                    342

 1
 2                                                                620  4.4 153  J    7.8  11 305   3.2  -4.6   0.8  4 J
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10   644  3.6 142  J    5.5 -41 349   3.9  -1.8  -3.0  2 J
11   634  4.0 154  J    5.2 -23 341   4.0  -1.9  -1.3  2 J
12   646  4.4 146  J    4.6  41 341   1.8  -0.1   1.7  4 J
13   699  5.0 151  J    4.8  63 259  -0.2  -0.4   2.5  4 J
14   616  5.2 164  J    5.8  -9  18   4.9   1.3  -1.2  2 J    650  4.2 187  J    5.7 -23  22   2.6   0.7  -1.4  3 J
15   626  5.0 144  J    5.8  14  25   4.5   2.3   0.8  3 J    639  3.8 179  J    5.4  -8  27   3.0   1.4  -0.8  2 J
16                      6.2  -6  51   3.8   4.6  -1.4  1 J    640  3.1 154  J    5.6  17  47   2.3   2.6   0.6  3 J
17                                                            627  3.6  84  J    5.2  30 334   2.3  -1.0   1.6  3 J
18                                                                               5.9 -31  37   2.6   1.9  -2.1  3 J
19   660  6.2 241  L    6.8   8 293   2.4  -5.7   0.9  2 J
20   640  5.8 228  L    7.1   8 307   3.9  -5.3   0.7  3 J
21   631  6.3 235  L    7.9  12 337   5.5  -2.4   1.1  4 J
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                 DEC.  8, 1984                    343                        DEC. 10, 1984                    345

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17                      2.6  36 360   1.2   0.1   0.9  2 J
18                      5.6  -2   3   4.2   0.2  -0.2  3 J
19                      4.9 -15   2   3.3   0.1  -0.9  4 J
20
21                      6.2 -21 355   4.6  -0.2  -1.8  4 J    370 12.6  57  J    6.3  -3 156  -4.6   2.0  -0.1  2 J
22                      6.5 -11   6   5.1   0.6  -0.9  3 J    367 13.1  55  J    7.0   2 154  -5.2   2.5   0.5  3 J
23
24                                                                               6.4  29 160  -5.3   1.5   3.3  0 J

                 DEC. 11, 1984                    346                        DEC. 12, 1984                    347

 1                      6.4   8 148  -5.2   3.1   1.3  2 J                       8.2  40 192  -6.1  -2.0   5.0  2 J
 2   375 17.2  52  J    6.3   8 152  -5.4   2.8   1.1  1 J    582  9.2 550  J   10.7  -4 140  -6.2   5.2  -0.1  7 J
 3                      7.4   6 163  -6.9   2.1   0.9  1 J    627  7.7 291  J   18.6 -11 116  -7.4  15.3  -2.5  9 J
 4                      7.9 -25 174  -6.9   0.7  -3.3  1 J
 5                      7.8 -26 152  -6.2   3.0  -3.6  0 J
 6                                                            647  4.6 209  J
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18                     15.5 -12 169 -14.9   2.8  -3.3  2 J
19   481 12.5 137  J   15.3 -12 165 -14.4   3.9  -3.0  2 J
20                     13.8  16 138  -9.4   8.2   4.3  4 J    379  4.4  63  J
21   592 11.3 279  J   13.0 -39 186  -9.2  -0.1  -7.5  5 J    373  5.6  78  J
22   622  8.4 124  J   11.6  -1 143  -7.9   5.9   0.6  6 J
23   666 11.1 350  J   11.0 -18 155  -8.8   4.5  -2.5  4 J
24   639 11.8 363  J   10.6 -15 157  -9.2   4.3  -2.1  2 J

                 DEC. 17, 1984                    352                        DEC. 18, 1984                    353

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 8                                                            637  4.6  82  J    4.3  -2 167  -3.4   0.8  -0.3  3 J
 9                                                            637  5.1 126  J    4.3   4 139  -2.1   1.8  -0.2  3 J
10                                                            621  5.5 112  J    4.8 -20 176  -4.0  -0.1  -1.5  2 J
11                                                            605  5.6 112  J    5.5 -18 178  -4.8  -0.2  -1.6  2 J
12                                                            601  5.1 121  J    5.8  -7 191  -5.5  -1.2  -0.4  2 J
13                                                            597  5.3 171  J    5.7 -12 172  -4.6   0.4  -1.1  3 J
14                                                            589  5.2 151  J    5.6  -7 178  -5.2   0.1  -0.7  2 J
15                                                            584  4.3 119  J    4.5 -10 146  -3.4   2.2  -1.0  1 J
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19                                                            581  5.3 129  J    5.0  -3 116  -1.7   3.4   0.1  3 J
20                                                            575  4.2  89  J    5.2  20 155  -3.7   1.5   1.7  3 J
21                      6.0 -23 183  -4.8   0.1  -2.0  3 J    559  4.6 117  J    5.1 -12 142  -3.2   2.6  -0.4  3 J
22                      5.5 -21 135  -2.4   2.6  -0.9  4 J
23                      5.1   3 139  -2.6   2.2   0.6  4 J
24                      6.0   4 181  -3.5  -0.1   0.2  4 J
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12/19/84 – 12/30/84

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HR   VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF     VEL  DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000  SC MAGN LAT LON                      SC                    1000  SC MAGN LAT LON                      SC

                           DEC. 19, 1984              354                              DEC. 20, 1984              355
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13   487  6.4  76 J    4.8   0 124  -2.2   3.2  -0.6  3 J
14   478  6.5 125 J    4.9  16 136  -2.6   2.6   0.6  3 J                         6.0 -32 153  -4.5   1.8  -3.5  0 J
15   476  6.3 137 J    5.5  -4 152  -4.8   2.5  -0.7  1 J     396  7.7  54 J    5.7 -29 176  -4.8   0.0  -2.7  2 J
16   467  6.9 158 J    6.2  -9 159  -5.6   2.1  -1.1  1 J                         5.4 -20 174  -4.9   0.4  -1.8  1 J
17   465  6.4  45 J    6.2 -11 169  -5.9   1.1  -1.2  1 J     402  6.5  49 J    5.2  -6 146  -3.8   2.6  -0.5  2 J
18   457  7.4  36 J    7.4 -11 180  -7.3   0.1  -1.4  0 J                         4.9 -15 129  -2.9   3.7  -1.1  1 J
19                                                                                 4.6 -12 136  -3.1   3.1  -0.6  1 J
20                                                                                 4.7 -35 136  -2.7   3.0  -2.2  1 J
21
22   456  8.8  82 J    4.5  -5 126  -2.5   3.4   0.3  2 J     406  7.4  45 J    4.5  -6  67   1.7   4.0   0.4  1 J
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                           DEC. 21, 1984              356                              DEC. 22, 1984              357
 1                                                                                 5.6  72 199  -1.4  -1.4   4.3  4 J
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 4   376  9.4  27 J    4.9   1 197  -4.4  -1.3  -0.0  1 J
 5   373 10.3  37 J    5.0   8 172  -4.6   0.6   0.7  2 J
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15   375 45.3  42 J    7.9  32 296   2.8  -5.2   4.5  3 J
16   369 34.9  46 J    9.1   9   1   8.8   0.2   1.4  2 J
17   365 42.6  51 J    8.7  -1 334   7.3  -3.6  -0.1  3 J                         3.5 -71 234  -0.4  -0.5  -1.9  3 J
18   390 62.3  67 J   11.5  39 343   4.5  -1.6   3.7 10 J     408 17.1  25 J    6.9  14 263  -0.8  -6.6   1.3  2 J
19   409 60.7  59 J   16.7  24 252  -4.5 -14.5   5.1  5 J     409 19.2  22 J    6.9   8 272   0.2  -6.2   0.2  3 J
20   411 21.4 232 J   14.9   2 238  -5.0  -8.0  -0.9 12 J
21   424 13.4 221 J   14.5  39 245  -3.3  -8.0   4.8 11 J
22   423 23.5 231 J   13.8 -28 312   7.0  -6.4  -7.0  7 J
23   441 19.2 224 J   11.7  24 252  -2.5  -8.2   1.8  8 J                         3.4 -23 263  -0.2  -1.7  -1.2  3 J
24   420 16.2 184 J    9.9   9 304   4.3  -6.4  -0.2  6 J                         3.6 -36 250  -0.9  -1.9  -2.4  2 J

                           DEC. 23, 1984              358                              DEC. 24, 1984              359
 1                     2.9 -57 350   1.3   0.2  -2.1  2 J                         4.3   9  51   2.4   2.8   1.3  2 J
 2                     3.6  -3  67   0.9   2.1   0.3  3 J                         3.7 -15  66   1.2   2.8  -0.3  2 J
 3                     5.1  -3  95  -0.3   3.8   0.3  3 J                         3.5  12  46   2.0   1.9   0.9  2 J
 4                                                                                 2.6   4  58   1.0   1.6   0.3  2 J
 5                                                                                 2.4  26 130  -1.3   1.5   1.0  1 J
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16                     3.0 -34 198  -2.4  -0.8  -1.6  0 J
17   455 17.6  37 J    2.9 -22 202  -2.1  -0.8  -0.9  2 J
18   456 20.4  32 J    1.8   1  38   0.9   0.7   0.1  2 J
19                     3.2 -31 107  -0.5   1.6  -0.7  3 J
20   445  6.8  66 J    5.5 -44 176  -3.7   0.8  -3.5  2 J
21   444  7.2  76 J    5.2 -58 176  -2.0   0.8  -3.0  4 J
22   442  7.7  78 J    5.2 -25  45   3.1   3.5  -1.3  2 J
23   436  8.0  90 J    4.7 -37  49   2.0   2.8  -1.7  3 J
24   437  7.0  75 J    5.1   1  60   2.4   4.1   1.1  1 J

                           DEC. 25, 1984              360                              DEC. 30, 1984              365
 1                     5.7  6[illegible] 333   2.2  -2.1   4.0  3 J
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 8                                                            622  6.5 199 J
 9                                                            623  6.2 139 J
10                                                            631  6.8 187 J
11
12                                                            601  6.8 155 J
13                                                            613  6.9 159 J
14
15
16
17   322  8.9  87 J
18   309  8.7 103 J
19   324 10.1 105 J
20   325 12.2 119 J
21   323 14.5 128 J
22                                                            607  7.5 173 J
23                                                            638  5.9 227 J
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                                                                   VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
HR     VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF                 1000   SC  MAGN LAT LON                   SC
                1000   SC  MAGN LAT LON                   SC                            JAN.  1, 1985                  1
                         DEC. 31, 1984               366

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14     688  4.5 148  J                                             742  5.0 228  J
15     699  4.5 151  J                                             744  5.4 328  J
16                                                                 672  5.3 227  J
17     693  4.9 191  J                                             730  5.3 293  J
18                                                                 714  5.6 282  J
19                                                                 730  5.3 244  J
20     657  5.8 226  J                                             758  5.6 306  J
21     635  5.2 136  J                                             703  5.1 282  J
22     628  5.4 134  J
23     631  4.9 121  J
24
                                                                           JAN.  4, 1985                  4
                          JAN.  2, 1985              2

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 6     703  4.8 268  J
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14     697  3.6 222  J
15     678  3.7 148  J
16     679  4.3 187  J
17     708  4.1 181  J                                             458  8.5  51  J
18     706  4.0 216  J
19     687  4.1 190  J                                             460  6.0 331  J
20     676  4.2 187  J
21     690  4.2 156  J
22     693  5.1 153  J
23     629  4.6 136  J
24     649  4.9 131  J
                                                                           JAN. 11, 1985                  11
                          JAN.  5, 1985              5

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 7                                                                                    5.6  -1 149  -3.5   2.1   0.0  4  J
 8                                                                 663  5.9 227  J    6.7  39  99  -0.7   4.6   3.8  3  J
 9                                                                 667  5.8 200  J    7.0  16  96  -0.6   5.5   1.4  4  J
10                                                                                    6.7 -49 138  -2.7   2.2  -4.3  4  J
11                                                                 648  5.4 216  J    7.0   2 103  -1.4   6.2  -0.1  3  J
12                                                                 677  5.3 165  J    6.8  20  89   0.1   6.0   1.8  3  J
13                                                                 628  4.7 110  J    6.7  28 106  -1.4   4.8   2.5  4  J
14     439 10.6 121  J
15     432 10.1 102  J
16     427 11.5  80  J
17
18     419  9.9  33  J
19     413 10.1  32  J
20     411 11.7  47  J
21     408 12.5  48  J
22     436 10.5 128  J                                             650  4.7 159  J    6.6   8 114  -2.0   4.0   2.2  4  J
23     436  9.3 116  J
24
                                                                           JAN. 13, 1985                  13
                          JAN. 12, 1985              12

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13                                                                 573  5.2  75  J    5.4  37 152  -3.1   1.7   2.6  3  J
14     635  5.0 148  J   5.7 -13 135  -3.2   3.2  -1.0  3  J       577  5.0  69  J    5.6 -33 171  -4.4   0.7  -2.9  2  J
15     641  4.9 129  J   5.5  -3 134  -2.2   2.3  -0.1  4  J       569  5.1  69  J    5.3   3 143  -3.8   2.9   0.4  2  J
16     623  5.2 150  J   5.5  31 145  -3.5   2.2   2.8  2  J       563  4.4  66  J    5.3  -6 181  -4.9  -0.0  -0.5  2  J
17     617  5.3 174  J   5.7  34 138  -3.5   2.6   3.6  1  J       591  4.2 101  J    5.6   3 104  -1.0   4.1   0.9  4  J
18                                                                 592  4.1 107  J    5.4  11  83   0.6   4.3   1.8  3  J
19                                                                                    4.7 -23 137  -2.6   2.8  -0.8  2  J
20                                                                 564  4.3 164  J    5.2   4 152  -4.1   2.0   1.0  2  J
21                                                                 566  3.8  89  J    5.4  16 103  -1.0   3.8   2.8  2  J
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## 01/14/85 – 01/24/85

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HR    VEL DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF       VEL DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
             1000  SC   MAGN LAT LON                   SC                    1000  SC   MAGN LAT LON                   SC
                              JAN. 14, 1985               14                              JAN. 15, 1985               15
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14                       5.5 -18 162  -4.6   1.5  -1.5  2  J
15                       5.5 -13 167  -4.7   1.2  -1.1  2  J
16                       5.6 -14  92  -0.2   5.2  -0.7  2  J
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22                       4.9  12 179  -4.3  -0.3   0.9  2  J      456 11.9 140  J    7.6 -19 139  -4.1   4.0  -0.4  5  J
23                                                                437 11.2 165  J    8.8 -13 155  -7.2   3.8  -0.4  3  J
24                                                                                   7.0  26 126  -2.9   2.7   3.8  4  J
                              JAN. 16, 1985               16                              JAN. 17, 1985               17
 1                       7.9   7 211  -6.4  -3.9  -0.6  3  J      448  4.8  43  J    4.3  14 175  -4.1  -0.1   1.1  0  J
 2                       7.5  14 209  -6.3  -3.9   0.5  1  J      451  4.4  46  J    4.2  19 178  -4.0  -0.4   1.3  1  J
 3                                                                                   4.4  25 185  -3.7  -0.9   1.5  1  J
 4                                                                                   4.7  15 193  -4.2  -1.3   0.9  1  J
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12                                                                                   7.5 -31 170  -6.2   1.0  -3.8  2  J
13
14
15    531  3.3 120  J    6.0   3 172  -5.9   0.8   0.4  0  J      404 10.6  47  J    7.0 -48 140  -3.2   3.1  -4.4  3  J
16    526  3.1  87  J    5.2  -1 166  -4.7   1.2   0.1  2  J      392 12.1  62  J    6.6 -28 136  -3.4   3.6  -2.1  4  J
17                       4.8   7 164  -4.5   1.2   0.8  1  J      408 16.4  46  J    6.6 -35 113  -2.0   5.2  -2.6  2  J
18    485  4.9 177  J    4.6  -3 166  -4.4   1.1   0.0  1  J      414 16.9  50  J    7.2  -9  66   1.9   4.4   0.3  5  J
19    480  4.5 154  J    4.6   3 164  -4.3   1.1   0.6  1  J      414 14.1  36  J    8.0  35  59   3.2   4.0   5.8  2  J
20    481  4.9 112  J    4.7  -1 159  -4.3   1.6   0.4  1  J      400 14.1  56  J    6.2   5  76   1.3   4.7   2.1  3  J
21    470  4.6 140  J    4.5   2 177  -4.4   0.2   0.2  0  J      399  8.6  43  J    6.5 -18 151  -5.1   3.3  -0.7  2  J
22    472  4.1 112  J    4.5   3 177  -4.4   0.1   0.3  1  J      404  8.1  78  J    4.9  -6 149  -4.0   2.4   0.5  2  J
23    460  4.1  66  J    4.0   8 175  -3.8   0.1   0.6  1  J      401  9.0  85  J    2.3  59 220  -0.4  -0.6   0.6  2  J
24    457  4.4  54  J    4.2  13 173  -4.1   0.1   1.1  1  J      410 10.0  52  J    3.1 -42 336   1.6  -0.0  -1.8  2  J
                              JAN. 18, 1985               18                              JAN. 19, 1985               19
 1    404  8.6  42  J    3.3  43  70   0.7   1.0   2.4  2  J      341 19.3  35  J    4.4  -1 324   3.3  -2.2  -1.0  1  J
 2    401 11.3  34  J    3.7  33 109  -1.0   1.9   2.8  1  J      343 19.9  37  J    4.6   4 334   3.9  -1.9  -0.4  1  J
 3    407 15.2  27  J    3.5  13 129  -2.0   2.1   1.5  1  J      344 18.6  23  J    3.8   8 313   2.5  -2.7  -0.4  1  J
 4    407 15.2  26  J    4.6  -6 116  -2.0   4.0   0.7  2  J      342 20.1  22  J    3.2   8 305   1.8  -2.5  -0.3  1  J
 5    404 13.0  26  J    5.3  -2 102  -1.1   4.9   0.9  2  J
 6                       3.3  40 164  -1.5   0.2   1.4  3  J
 7                       3.6  35 162  -2.6   0.7   2.0  1  J
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17    373 15.6  34  J    3.6   8   9   3.1   0.4   0.5  2  J
18    364 12.2  41  J    3.9  -2 321   2.9  -2.2  -0.7  2  J
19    352 14.6  36  J    3.6  -3 314   1.7  -1.7  -0.6  3  J
20    336 18.9  16  J    2.6  11 335   2.2  -1.1   0.1  1  J
21    340 16.1  23  J    4.3  15 295   1.8  -3.9  -0.3  1  J
22    339 15.8  22  J    4.8   8 295   1.9  -4.1  -1.0  1  J
23    341 14.6  25  J    4.8  20 289   1.5  -4.6  -0.2  1  J
24    344 16.1  32  J    4.9  10 296   2.0  -4.0  -0.9  2  J
                              JAN. 23, 1985               23                              JAN. 24, 1985               24
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11                                                                483  5.2 108  J    6.2   9 344   5.7  -1.7   0.9  1  J
12    600  6.9 259  J                                             468  5.4  93  J    5.9  -4 341   5.4  -1.8  -0.5  1  J
13                                                                457  5.5  44  J    6.0   3 340   5.4  -2.0   0.2  1  J
14                                                                                   6.2  -8 330   4.9  -2.7  -1.0  2  J
15                                                                                   5.9   5 303   3.0  -4.7  -0.1  2  J
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01/25/85 – 02/05/85

JAN. 25, 1985 25

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | 496 | 11.1 | 30 | J | 11.9 | 30 | 171 | -9.9 | 1.3 | 5.9 | 2 | J |
| 13 | | | | | 12.0 | 29 | 168 | -10.2 | 1.8 | 5.9 | 2 | J |
| 14 | | | | | 11.7 | 32 | 167 | -9.6 | 1.6 | 6.3 | 1 | J |
| 15 | 483 | 8.7 | 25 | J | 11.5 | 34 | 162 | -9.1 | 2.1 | 6.8 | 1 | J |
| 16 | 478 | 9.4 | 30 | J | 11.8 | 38 | 162 | -8.8 | 1.5 | 7.7 | 1 | J |
| 17 | 477 | 8.2 | 34 | J | 12.1 | 37 | 173 | -9.5 | -0.5 | 7.3 | 2 | J |
| 18 | 471 | 9.0 | 40 | J | 12.6 | 36 | 181 | -10.0 | -2.2 | 7.0 | 2 | J |
| 19 | 469 | 8.7 | 42 | J | 12.9 | 40 | 187 | -9.6 | -3.8 | 7.3 | 3 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
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JAN. 26, 1985 26

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 11.3 | 23 | 325 | 8.5 | -7.1 | 2.2 | 1 | J |
| 411 | 16.4 | 22 | J | 10.5 | 29 | 233 | -5.3 | -8.1 | 2.8 | 3 | J |
| 415 | 14.0 | 26 | J | 10.3 | 26 | 223 | -6.7 | -7.1 | 3.1 | 1 | J |
| | | | | 7.0 | 8 | 193 | -6.3 | -1.5 | 0.8 | 3 | J |
| 408 | 13.9 | 18 | J | 6.9 | 1 | 199 | -6.4 | -2.2 | -0.0 | 1 | J |
| 405 | 12.8 | 17 | J | 6.7 | 7 | 211 | -5.6 | -3.4 | 0.5 | 1 | J |
| 406 | 12.7 | 17 | J | 6.3 | -3 | 205 | -5.7 | -2.6 | -0.7 | 1 | J |
| 411 | 25.8 | 26 | J | 10.7 | 15 | 212 | -8.4 | -5.6 | 1.6 | 3 | J |
| 411 | 22.4 | 29 | J | 10.3 | 13 | 229 | -6.5 | -7.8 | 0.5 | 2 | J |
| 411 | 16.8 | 30 | J | 10.0 | 21 | 229 | -5.7 | -7.2 | 1.3 | 4 | J |
| | | | | 11.1 | 32 | 215 | -7.6 | -7.0 | 3.7 | 2 | J |
| | | | | 11.9 | 32 | 212 | -8.6 | -7.3 | 3.9 | 1 | J |

JAN. 27, 1985 27

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
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| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | 6.7 | -3 | 305 | 3.2 | -4.5 | -0.6 | 4 | J |
| 14 | 367 | 9.1 | 70 | J | 3.9 | -11 | 292 | 1.2 | -2.9 | -0.9 | 2 | J |
| 15 | 374 | 9.2 | 48 | J | 5.8 | -8 | 325 | 4.6 | -3.1 | -1.2 | 2 | J |
| 16 | 389 | 10.0 | 63 | J | 4.1 | 7 | 288 | 1.1 | -3.3 | -0.2 | 3 | J |
| 17 | 395 | 9.2 | 81 | J | 6.4 | -12 | 318 | 4.2 | -3.4 | -2.1 | 3 | J |
| 18 | 388 | 10.3 | 71 | J | 6.3 | -27 | 328 | 3.9 | -1.6 | -2.9 | 4 | J |
| 19 | 439 | 16.1 | 119 | J | 8.7 | -7 | 269 | -0.1 | -7.3 | -3.7 | 3 | J |
| 20 | 428 | 17.3 | 112 | J | 8.9 | 6 | 295 | 3.2 | -6.6 | -1.8 | 5 | J |
| 21 | 418 | 14.6 | 54 | J | 12.8 | 1 | 264 | -1.3 | -11.1 | -4.8 | 4 | J |
| 22 | 399 | 16.4 | 95 | J | 12.3 | 20 | 279 | 1.8 | -11.8 | -1.2 | 3 | J |
| 23 | | | | | 14.2 | 18 | 266 | -0.9 | -13.8 | -2.1 | 3 | J |
| 24 | | | | | 18.0 | -3 | 256 | -4.3 | -14.9 | -8.6 | 4 | J |

JAN. 28, 1985 28

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 17.6 | 16 | 269 | -0.2 | -14.4 | -0.9 | 10 | J |
| | | | | 19.7 | -4 | 268 | -0.6 | -17.0 | -6.3 | 8 | J |
| | | | | 22.3 | 8 | 285 | 5.7 | -21.5 | -0.5 | 2 | J |
| | | | | 22.1 | 4 | 280 | 3.8 | -21.6 | -1.1 | 2 | J |
| | | | | 21.4 | -26 | 273 | 0.6 | -11.9 | -6.8 | 17 | J |
| 508 | 10.7 | 38 | J | | | | | | | | |
| | | | | 10.8 | -73 | 332 | 2.6 | 0.5 | -9.7 | 4 | J |
| | | | | 9.1 | -33 | 224 | -5.3 | -3.8 | -5.9 | 2 | J |
| 472 | 6.7 | 128 | J | 7.8 | 8 | 224 | -4.4 | -4.3 | -0.4 | 5 | J |
| | | | | 7.6 | -17 | 177 | -6.0 | 0.9 | -1.6 | 4 | J |
| | | | | 8.7 | -43 | 251 | -1.7 | -2.8 | -6.5 | 5 | J |
| | | | | 11.4 | -28 | 276 | 1.0 | -6.2 | -8.2 | 5 | J |
| | | | | 9.4 | -71 | 265 | -0.2 | 1.2 | -8.5 | 4 | J |
| | | | | 9.7 | -24 | 260 | -1.0 | -3.9 | -5.0 | 7 | J |

JAN. 29, 1985 29

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | 8.6 | -25 | 34 | 6.4 | 5.4 | -1.4 | 2 | J |
| 3 | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | 7.6 | 15 | 351 | 7.0 | -1.3 | 1.8 | 2 | J |
| 15 | 450 | 4.5 | 59 | J | 7.7 | -10 | 337 | 6.7 | -2.6 | -1.7 | 2 | J |
| 16 | 472 | 3.6 | 49 | J | 7.2 | -8 | 313 | 4.8 | -4.8 | -2.0 | 1 | J |
| 17 | 483 | 3.4 | 49 | J | 7.1 | -2 | 316 | 4.9 | -4.5 | -1.4 | 2 | J |
| 18 | 491 | 6.8 | 69 | J | 6.3 | -4 | 304 | 3.4 | -4.7 | -1.9 | 2 | J |
| 19 | 489 | 7.9 | 83 | J | 5.9 | -1 | 305 | 3.3 | -4.3 | -1.7 | 1 | J |
| 20 | 493 | 13.0 | 50 | J | 5.3 | -34 | 255 | -1.0 | -2.3 | -3.7 | 3 | J |
| 21 | | | | | 6.4 | -26 | 280 | 1.0 | -3.8 | -4.7 | 2 | J |
| 22 | 479 | 13.7 | 63 | J | 6.9 | -11 | 289 | 2.0 | -4.7 | -3.7 | 3 | J |
| 23 | 484 | 15.4 | 57 | J | 7.2 | -54 | 269 | -0.1 | -0.9 | -6.1 | 4 | J |
| 24 | 489 | 18.0 | 62 | J | 5.8 | -39 | 284 | 0.5 | -1.0 | -2.4 | 5 | J |

JAN. 30, 1985 30

| VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 486 | 22.7 | 54 | J | 3.7 | 69 | 34 | 1.0 | -0.8 | 3.0 | 2 | J |
| 476 | 16.1 | 74 | J | 4.6 | 55 | 36 | 1.8 | -0.2 | 3.5 | 2 | J |
| 475 | 14.0 | 68 | J | 5.7 | 52 | 50 | 2.0 | 0.6 | 4.6 | 2 | J |
| | | | | 3.7 | 1 | 113 | -0.7 | 1.6 | 0.6 | 3 | J |
| 459 | 12.7 | 28 | J | 5.2 | -14 | 192 | -4.7 | -0.7 | -1.4 | 1 | J |
| 454 | 13.7 | 26 | J | 4.8 | -13 | 190 | -4.5 | -0.5 | -1.2 | 1 | J |
| 453 | 17.1 | 30 | J | 4.2 | -8 | 197 | -3.4 | -0.8 | -0.8 | 2 | J |
| 458 | 15.8 | 30 | J | 4.4 | -5 | 167 | -4.2 | 1.0 | -0.0 | 1 | J |
| 484 | 10.1 | 58 | J | 4.5 | 38 | 3 | 0.8 | -0.2 | 0.6 | 4 | J |
| 504 | 11.0 | 67 | J | 6.0 | 11 | 345 | 5.6 | -1.8 | 0.4 | 1 | J |
| 490 | 14.7 | 108 | J | 6.2 | 14 | 322 | 2.4 | -2.0 | -0.2 | 5 | J |
| 469 | 22.8 | 113 | J | 7.8 | 10 | 164 | -6.4 | 1.1 | 1.9 | 4 | J |
| 424 | 26.9 | 45 | J | 6.8 | 7 | 332 | 4.6 | -2.5 | -0.6 | 5 | J |

JAN. 31, 1985 31

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 404 | 19.5 | 33 | J | 7.4 | -3 | 343 | 6.5 | -1.6 | -1.2 | 3 | J |
| 2 | 401 | 15.0 | 26 | J | 7.3 | 5 | 324 | 5.6 | -4.0 | -1.2 | 2 | J |
| 3 | 426 | 15.1 | 62 | J | 4.0 | -38 | 23 | 1.2 | 0.9 | -0.8 | 4 | J |
| 4 | 431 | 13.0 | 72 | J | 4.3 | 67 | 312 | 0.6 | -1.3 | 1.7 | 4 | J |
| 5 | 410 | 17.6 | 48 | J | 5.3 | 41 | 1 | 2.3 | -0.5 | 1.9 | 5 | J |
| 6 | 432 | 15.2 | 97 | J | 4.4 | -10 | 116 | -1.7 | 3.6 | 0.2 | 3 | J |
| 7 | | | | | 3.1 | -16 | 129 | -1.5 | 1.9 | -0.3 | 2 | J |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | 7.3 | -43 | 149 | -4.5 | 3.0 | -4.6 | 2 | J |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
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FEB. 5, 1985 36

| VEL | DEN | TEMP/ 1000 | PLS SC |
|---|---|---|---|
| 565 | 6.3 | 162 | J |
| 555 | 8.9 | 252 | J |
| 553 | 13.1 | 379 | J |
| 562 | 11.7 | 299 | J |
| 547 | 12.4 | 289 | J |
| 514 | 13.3 | 268 | J |
| 494 | 11.4 | 173 | J |
| 482 | 15.5 | 197 | J |
| 496 | 16.4 | 188 | J |

02/06/85 – 02/13/85

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HR    VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
              1000  SC  MAGN LAT LON                      SC                1000  SC  MAGN LAT LON                      SC

                       FEB. 6, 1985                     37                         FEB. 7, 1985                       38
 1
 2                                                                                 6.2  18 120  -2.4   3.0   3.3  4  J
 3                                                                                 6.1  25 135  -3.5   2.2   3.6  3  J
 4
 5
 6
 7
 8
 9
10
11                                                             729  4.5 184  J     6.5  31 104  -1.1   4.2   3.3  3  J
12                                                             729  5.0 295  J     6.6 -16 108  -1.9   5.9  -1.1  2  J
13                                                             691  3.9 153  J     6.0 -21 131  -3.4   4.1  -1.5  2  J
14                                                             678  3.8 163  J     5.9   1 132  -3.6   3.9   0.7  2  J
15                                                             689  4.1 173  J     6.0   1 124  -3.0   4.3   1.0  3  J
16                                                             665  3.8 145  J     6.1  -7 141  -4.5   3.7   0.2  2  J
17                                                             683  4.0 153  J     5.9  16 127  -3.0   3.3   2.5  3  J
18                     6.5 -20 188  -5.9  -0.1  -2.3  2  J     637  3.8 120  J     5.8   8 186  -5.3  -0.8   0.5  2  J
19                     6.5  37 183  -4.4  -1.5   3.0  4  J     632  3.7  89  J     6.0  14 139  -4.0   2.7   2.6  2  J
20                                                             644  3.8 120  J     6.1  16 138  -3.9   2.5   2.8  3  J
21                     7.0  39 187  -4.2  -2.0   2.8  4  J                         5.0  17 148  -3.6   1.4   2.2  2  J
22                                                             665  3.8 159  J     5.6  -2 137  -3.4   2.8   1.4  3  J
23                     7.0  68 167  -1.7  -1.8   3.9  5  J
24                     7.1  11 116  -3.0   4.6   4.2  2  J                         5.9   5 121  -2.7   3.7   2.7  3  J

                       FEB. 8, 1985                     39                         FEB. 9, 1985                       40
 1                     5.2   6 182  -4.5  -0.4   0.3  3  J
 2                     5.3 -28 194  -3.7   0.1  -2.2  3  J
 3                     5.7  26 134  -2.7   1.7   2.9  4  J
 4    673  4.7 153  J  5.6  49 132  -1.8   0.6   3.5  4  J
 5    719  4.8 125  J  6.2   3  80   1.0   5.2   2.2  3  J
 6    699  4.3 141  J  6.2  31  85   0.4   3.9   4.3  2  J
 7                     5.8  37  51   2.9   2.7   4.1  1  J
 8
 9                                                             625  5.4 135  J     5.4 -28 152  -4.0   2.4  -2.1  2  J
10                                                             623  5.6 162  J     5.7 -15 129  -2.7   3.4  -0.7  4  J
11
12                                                             608  6.0 165  J     5.8  12  94  -0.4   5.2   1.8  2  J
13                                                             596  5.9 168  J     5.9 -18 117  -2.0   4.1  -0.9  4  J
14                                                             613  5.6 115  J     6.5 -16  84   0.6   6.1  -0.7  2  J
15    635  5.0 142  J  5.5 -29 196  -3.6  -0.6  -2.3  3  J     563  5.0  86  J     6.7 -18 166  -5.4   1.7  -1.5  3  J
16    638  5.2 113  J  5.4  -2 172  -4.4   0.6   0.0  3  J     554  4.9  82  J     6.6  -6 176  -6.0   0.6  -0.5  3  J
17    640  5.1 115  J  6.0 -11 194  -5.0  -0.9  -1.3  3  J     564  4.9  98  J     6.5  19 173  -3.8   0.0   1.4  5  J
18    647  5.6 122  J  6.2 -30 173  -4.9   1.5  -2.5  2  J     562  5.4 100  J     6.3   9 149  -4.4   2.2   1.7  3  J
19    630  5.8  75  J  6.8 -14 186  -6.2   0.0  -1.7  2  J     590  6.1 128  J     6.7  13 100  -1.0   4.5   3.3  3  J
20    609  4.9  60  J  6.4   1 179  -6.1   0.0   0.1  2  J     578  4.9  94  J     7.4  11 126  -3.3   3.7   3.0  5  J
21    606  5.3  74  J  6.7 -28 185  -5.5   0.9  -2.8  2  J     569  4.4  90  J     7.9  -8 147  -6.0   3.9   0.9  3  J
22    625  5.5  89  J  6.4 -25 171  -3.6   1.3  -1.2  5  J     585  5.0 145  J     7.7   2 138  -5.5   4.2   2.7  2  J
23                                                             623  5.4 134  J     6.8 -24 147  -4.4   3.7  -0.6  4  J
24                                                             644  5.4 136  J     6.8   6 129  -3.6   3.6   2.8  3  J

                       FEB. 10, 1985                    41                         FEB. 11, 1985                      42
 1    645  5.2 107  J  6.7  -4 136  -4.6   4.1   1.8  2  J     712  3.5 159  J     5.0  14  82   0.6   2.9   2.8  3  J
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 9                     6.3  35 173  -4.7   0.1   3.4  2  J
10                     5.9  17 162  -4.0   1.1   1.4  4  J
11
12                                                             646  4.6 272  J     4.9   7 135  -3.2   3.1   1.0  2  J
13                                                             651  4.8 239  J     5.1  -1 158  -4.1   1.6   0.2  2  J
14                                                             646  4.7 227  J     5.6 -18 171  -4.8   1.0  -1.4  2  J
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21    637  4.4 113  J  6.3  21 146  -4.4   1.7   3.2  3  J
22    673  4.2 173  J  5.9  18 138  -2.5   1.4   2.1  5  J     570  6.5 129  J     5.2 -10 149  -4.0   2.5   0.5  2  J
23    696  3.6 128  J  6.1  22  99  -0.8   3.3   4.4  2  J     568  6.1 112  J     5.2 -15 151  -3.5   2.2   0.1  3  J
24    674  3.8 171  J  5.6   3 117  -2.0   3.3   2.2  3  J     599  5.5 128  J     5.7  24  39   3.8   1.5   3.4  2  J

                       FEB. 12, 1985                    43                         FEB. 13, 1985                      44
 1    577  5.9 127  J  5.3  32  78   0.7   1.9   3.7  3  J     515  4.7  66  J     4.4   4 133  -2.7   2.3   1.7  2  J
 2    575  6.2 115  J  5.3 -10 100  -0.6   3.3   1.1  4  J     509  4.3  54  J
 3    562  5.6 124  J  5.6  15 130  -2.2   2.0   2.0  4  J     507  4.0  81  J     4.9  11 168  -4.6   0.5   1.3  1  J
 4    574  5.4 118  J  6.2  46 118  -1.7   1.4   4.6  3  J                         5.1  13 154  -4.5   1.5   1.9  0  J
 5    552  4.9 119  J  6.1 -16 176  -5.5   0.9  -1.3  2  J                         5.0  13 154  -4.4   1.6   1.8  1  J
 6    554  5.3 125  J  6.0 -12 176  -5.3   0.7  -1.0  3  J                         4.8  15 155  -4.1   1.5   1.7  1  J
 7    553  4.6  89  J  6.1  19 156  -4.8   1.6   2.3  3  J                         4.5   9 159  -4.1   1.4   1.1  1  J
 8                     6.2 -11 176  -4.9   0.5  -0.9  4  J
 9                     7.0  -2 144  -5.0   3.6   0.4  3  J
10                     7.3 -10 153  -6.1   3.2  -0.8  2  J
11                     6.5  -8 164  -6.2   1.9  -0.7  1  J
12    539  4.7 118  J  6.3  -5 162  -5.7   1.9  -0.3  2  J                         5.4  -2 183  -4.9  -0.2  -0.2  1  J
13    562  5.4 105  J  5.7 -20 135  -3.3   3.5  -1.2  3  J
14    586  5.6 192  J  4.0  16  92  -0.1   3.2   1.6  2  J
15
16                                                                                 5.8 -12 179  -5.7   0.4  -1.1  1  J
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24    517  4.2  62  J  4.6  -6 140  -3.4   2.6   1.1  1  J
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**ORIGINAL PAGE IS OF POOR QUALITY**

02/17/85 – 02/24/85

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HR    VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF     VEL DEN TEMP/ PLS AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC MAGN LAT LON                    SC                1000  SC MAGN LAT LON                    SC

                          FEB. 17, 1985                48                         FEB. 18, 1985                 49

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 9                                                               435  5.6  84  J    5.4 -13 175  -5.1   0.7  -1.1  1  J
10                                                               422  5.3  48  J    4.8  -5 164  -4.3   1.3  -0.2  1  J
11    485  8.4 160  J                                            464  4.1  49  J    5.2  23  74   0.8   2.7   1.7  4  J
12                                                               446  3.8  55  J    4.6  15 100  -0.5   2.9   1.3  3  J
13                                                               443  4.5  66  J    5.0   9 120  -2.3   3.7   1.4  2  J
14                                                               451  4.6  66  J    4.4  13  85   0.3   3.7   1.7  2  J
15
16
17                                                               435  5.2  50  J    5.7  17  65   2.0   3.6   2.8  3  J
18                                                               434  6.5 138  J    5.1  -6 151  -4.1   2.3   0.4  2  J
19                                                               433  7.0 129  J    4.6   0 147  -3.6   2.1   1.0  1  J
20                                                               437  7.6  94  J    4.3   8 135  -2.7   2.2   1.8  1  J
21                                                               427  6.6  74  J    5.2  24 139  -3.2   1.5   3.0  2  J
22                                                               442  6.7  41  J    5.7   8  96  -0.5   3.8   3.2  3  J
23                                                               420  6.1  46  J    5.8   0 110  -1.9   4.4   2.8  2  J
24                                                               439  6.1  51  J    5.3  -7 115  -2.2   4.3   2.0  1  J

                          FEB. 19, 1985                50                         FEB. 20, 1985                 51

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10                         7.2   5  15   6.5   1.6   0.9  2  J
11                         7.5  19 352   6.7  -1.3   2.2  2  J
12    383  8.2 109  J      9.1  18 339   8.0  -3.5   2.2  1  J
13    399 10.1  42  J      9.7  19 324   7.3  -5.7   2.1  2  J
14    408 10.8  33  J     10.1  19 308   5.9  -8.0   1.7  1  J
15    397 12.1  55  J     10.8  13 312   7.0  -8.1   0.4  2  J
16    384 12.2  70  J      9.9   8 327   8.1  -5.4  -0.2  2  J
17                         9.6  15 300   4.3  -7.9  -0.3  4  J
18    377 12.9  28  J      9.8  15 291   3.4  -9.0  -1.0  1  J     342  6.7  30  J    6.6  -5 288   2.0  -5.5  -3.0  1  J
19                                                               339  6.7  25  J    6.4   1 290   2.2  -5.4  -2.5  1  J
20                                                               321  5.8  32  J    5.7   2 310   3.6  -3.9  -1.9  1  J
21                                                               322  5.3  26  J    5.4   7 302   2.8  -4.2  -1.7  1  J
22
23
24

                          FEB. 21, 1985                52                         FEB. 22, 1985                 53

 1                                                                                  6.3 -15 283   1.1  -3.3  -3.6  4  J
 2                                                                                  6.9 -29  25   4.5   3.2  -1.3  4  J
 3                                                                                  5.6 -27  12   4.4   1.9  -1.6  3  J
 4                                                                                  4.3  10  56   2.1   2.6   2.0  2  J
 5                                                                                  4.9  76 221  -0.7  -2.0   3.2  3  J
 6                                                                                  6.1  39 258  -1.0  -5.5   2.0  2  J
 7
 8                                                               378  8.2  73  J    4.3 -17 318   3.0  -2.3  -1.8  1  J
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12                                                               367 24.0  41  J    4.0   4 112  -1.4   3.3   0.8  2  J
13                                                               368 24.1  37  J    2.9   3  69   0.3   0.7   0.2  3  J
14                                                                                  5.6 -17 298   2.4  -4.0  -2.5  2  J
15    361 10.1  76  J      8.8 -21 308   5.0  -5.4  -4.6  2  J                        4.8  -9 260  -0.8  -4.1  -1.8  2  J
16    372 10.6  88  J      8.6  -4 289   2.6  -7.0  -2.7  4  J     356 18.7  33  J    4.0 -35 263  -0.3  -1.6  -2.1  3  J
17    380  8.0  31  J      9.1  23 267  -0.4  -8.9   0.5  2  J     357 13.6  27  J    5.4 -35 211  -3.2  -0.9  -3.1  3  J
18    379 10.0  35  J      9.0  37 262  -1.0  -8.4   2.1  2  J     366 14.6  27  J    4.7 -14 171  -4.4   1.1  -0.7  1  J
19    389 10.3  50  J      8.7  19 270  -0.0  -7.8  -0.9  4  J     362 14.7  28  J    4.0 -30 181  -2.2   0.5  -1.1  3  J
20    377 10.1  33  J      8.8 -19 279   1.3  -5.7  -6.3  2  J
21    385 11.2  28  J      8.3 -10 253  -2.3  -5.8  -5.0  2  J
22    372 14.3  25  J      6.7  -1 289   2.0  -4.8  -3.1  3  J
23    369 12.5  24  J      6.3   2 280   1.1  -5.2  -3.1  1  J
24

                          FEB. 23, 1985                54                         FEB. 24, 1985                 55

 1                                                                                  4.7 -27 320   2.9  -1.0  -3.0  2  J
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13    349  7.7  21  J      4.1 -21 308   1.6  -1.8  -1.4  3  J
14    345 10.3  21  J      3.7  18 300   1.6  -3.0   0.4  2  J
15    343 10.3  23  J      4.0  17 297   1.7  -3.6   0.3  1  J                        5.5 -27  74   1.3   4.9  -1.1  2  J
16    342 12.1  18  J      4.7  20 304   2.4  -3.9   0.4  1  J     408  7.9  69  J    6.4  18 277   0.6  -5.3   0.0  4  J
17    351 11.4  19  J      5.9   4 303   3.2  -4.8  -1.3  1  J     413 10.6  92  J    3.8   2 205  -2.8  -1.3  -0.4  2  J
18    362 15.3  16  J      7.8  -3 300   3.8  -6.0  -3.0  2  J     410 10.9  77  J    3.8 -49 245  -0.6  -0.5  -2.0  3  J
19    365 14.6  14  J      7.1  -5 292   2.6  -5.6  -3.4  1  J     410 13.1  75  J    3.7  29 161  -1.6   0.1   1.1  3  J
20    350 14.8  16  J      5.9 -11 295   2.4  -4.0  -3.4  1  J     414 11.2  72  J    4.9 -17 292   0.9  -1.6  -1.7  4  J
21    348 16.1  17  J      5.4  -8 313   3.6  -3.0  -2.6  1  J     418  9.9  43  J    6.8  -7 284   1.6  -5.1  -4.0  1  J
22    349 18.1  16  J      5.8 -14 314   3.8  -2.6  -3.3  1  J     413 11.1  37  J    6.0  -3 266  -0.4  -4.9  -3.5  1  J
23    342 19.9  20  J      6.2   7 320   4.6  -3.7  -1.5  1  J     412 11.0  39  J    6.2  -1 270  -0.0  -4.9  -3.3  2  J
24    346 23.2  18  J      6.4  -3 313   4.3  -3.7  -2.8  1  J
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02/25/85 – 03/07/85

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HR    VEL  DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF       VEL  DEN TEMP/ PLS   AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
                1000  SC   MAGN LAT LON                    SC                  1000  SC   MAGN LAT LON                    SC

                            FEB. 25, 1985                   56                              FEB. 26, 1985                   57

 1                       6.2   0 287   1.8  -4.9  -3.1  1  J    379 11.9  26  J    4.6  -8 271   0.1  -2.4  -2.1  3  J
 2    415 12.2  52  J    5.9   2 302   3.1  -4.3  -2.3  1  J    387 12.0  24  J    4.5  -8 276   0.5  -3.4  -2.8  1  J
 3
 4                                                              375 14.6  27  J
 5                                                              361 13.1  22  J
 6
 7    405 14.2  29  J    9.2  -3 274   0.6  -8.2  -2.9  3  J
 8                      10.3 -12 293   3.9  -8.5  -4.3  0  J
 9                      10.7 -14 299   5.0  -8.3  -4.4  3  J
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18    435 12.4 226  J    5.6 -16 340   4.9  -1.0  -2.1  1  J
19    435 11.4 184  J    6.3  -2 352   6.1  -0.7  -0.6  1  J
20    440 11.1 154  J    4.7  26 348   3.9  -1.7   1.3  2  J
21    437 10.0 136  J    3.6  19 337   2.8  -1.6   0.3  2  J
22    433  9.2 124  J    3.6  25 332   2.6  -1.9   0.4  2  J
23    422  8.7  85  J    3.2  14 342   2.9  -1.2   0.1  1  J
24    396 11.3  25  J    3.6  10 305   1.9  -2.5  -1.0  1  J

                            MAR.  2, 1985                   61                              MAR.  3, 1985                   62

 1                                                                                   6.5  36 137  -3.7   0.9   4.9  2  J
 2
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 7    555 10.5 164  J
 8    553 10.4 168  J    7.5   4 165  -5.8   1.4   0.8  4  J
 9    596  9.5 204  J    6.4  -9 160  -2.1   0.8  -0.2  6  J    648  3.7 116  J    4.6  18  33   1.0   0.5   0.5  4  J
10    622  7.7 192  J    6.2  39  99  -0.6   2.9   3.6  4  J    655  3.2  93  J    4.8  17 350   4.1  -1.0   1.1  2  J
11    609  9.4 203  J    5.3 -32 129  -1.7   2.4  -1.3  4  J    629  4.3 177  J    4.4  44  18   2.6   0.3   2.8  2  J
12    612  8.8 188  J    5.8  16  85   0.4   4.3   2.2  3  J    606  4.1 121  J    4.6  12  84   0.4   3.6   1.5  2  J
13                                                              586  3.8 111  J    3.6  -8 124  -1.5   2.2   0.1  2  J
14                                                              577  3.9  99  J    3.9  53 118  -0.8   0.9   2.6  3  J
15                                                              565  3.8  89  J    4.1 -10 125  -1.9   2.7   0.2  2  J
16                                                              566  3.8  87  J    4.2   5 137  -2.7   2.3   1.1  2  J
17
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21    602  4.3 107  J    7.8 -20 157  -6.6   3.7  -0.7  2  J
22    590  4.3 115  J    7.1   4 158  -6.0   1.8   1.7  3  J
23    608  4.9 142  J    6.4  25 155  -4.1   0.4   2.8  4  J
24    633  5.0 117  J    6.3  22 135  -3.0   1.5   3.1  4  J

                            MAR.  4, 1985                   63                              MAR.  5, 1985                   64

 1
 2                                                              645  6.7 173  J    7.5 -22 104  -1.4   6.1   1.0  4  J
 3    511  4.7  54  J    3.9   5 171  -3.7   0.4   0.6  1  J    611  6.0 160  J    7.2  -2  99  -1.0   5.6   2.9  3  J
 4                                                              667  6.4 276  J    5.6 -29 352   4.6   0.6  -2.6  2  J
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10                                                                                   3.5   9 134  -2.2   2.1   1.0  2  J
11                                                                                   7.9  42 141  -4.0   2.3   5.2  4  J
12    480  6.8  89  J    3.9  64  60   0.7   0.6   3.1  2  J    571  8.4 215  J   11.4  32 127  -5.5   6.0   7.1  4  J
13    481  6.7  70  J    3.8  21  60   1.4   2.1   1.6  2  J    582  8.6 280  J   12.2  31 143  -7.1   4.1   6.3  7  J
14    463  6.5  49  J    4.4 -27 145  -2.9   2.4  -1.3  2  J                       9.6 -19 112  -2.3   6.1  -0.7  7  J
15    462  7.6  72  J    4.6  -2 154  -1.8   0.9   0.2  4  J    693  6.7 330  J   11.0  10 116  -2.4   4.5   2.3  9  J
16    455  8.6  50  J    6.6  28 137  -4.1   2.6   4.0  2  J    713  6.4 346  J    8.2  16 164  -6.0   1.1   2.3  5  J
17    436 12.6  65  J    6.8  18 137  -4.4   3.1   3.3  3  J                       6.8 -30 198  -3.9  -0.3  -2.6  5  J
18    432 14.7  49  J    9.0  24 135  -5.6   3.6   5.5  3  J                       5.4 -37 151  -2.8   2.4  -1.5  4  J
19    442 21.9  38  J    9.0   0 119  -3.8   6.1   3.1  5  J    743  3.2 304  J    6.3 -46 167  -3.5   2.4  -2.9  4  J
20                                                              703  3.9 105  J    6.3 -15 156  -5.0   2.7  -0.2  3  J
21                                                                                   6.8   7 195  -5.7  -1.7  -0.2  3  J
22                      11.8  -6 148  -9.4   5.5   2.3  4  J                       6.6  26 179  -5.8  -1.5   2.4  2  J
23                      12.4  -4 133  -8.4   8.0   4.4  1  J
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                            MAR.  6, 1985                   65                              MAR.  7, 1985                   66

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11                       5.1   6 169  -3.3   0.6   0.5  4  J
12    764  3.8 247  J    5.1  24 135  -2.8   2.4   2.3  3  J
13    740  4.0 332  J    5.5   5 142  -4.0   3.0   1.1  2  J
14                       5.2   2  98  -0.7   4.5   1.3  2  J
15    764  3.9 281  J    4.8  15  87   0.2   3.3   2.0  3  J
16    693  4.0 175  J    5.9  15 107  -1.1   3.0   2.1  4  J
17    696  4.4 213  J    6.4  16 126  -2.9   3.2   2.8  4  J
18    682  4.3 189  J    7.0  16 142  -4.8   2.7   3.2  3  J
19    661  3.9 189  J    7.4   4 146  -5.3   3.0   2.1  4  J
20    694  4.5 129  J    7.4  -4 122  -3.4   4.9   2.3  4  J    761  4.3 330  J    5.1 -18 134  -2.6   2.9   0.3  3  J
21    668  4.7 227  J    6.9  15 156  -3.4   0.7   1.6  6  J    746  4.3 365  J    5.2  24 191  -4.0  -1.6   1.1  3  J
22    670  4.8 235  J    6.6  -3 143  -4.5   3.0   1.6  3  J    761  4.3 260  J    5.4  10 118  -2.2   2.9   2.9  3  J
23    686  5.0 203  J    6.4  21 150  -3.8   0.9   2.6  4  J    764  4.1 223  J    6.2  16 101  -0.9   3.2   3.9  3  J
24                                                              771  4.0 272  J    5.5 -16 148  -2.0   1.4   0.1  5  J
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MAR. 8, 1985 67

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 755 | 4.2 | 301 | J | 5.6 | 9 | 180 | -3.9 | -0.3 | 0.5 | 4 | J |
| 2 | 768 | 3.9 | 230 | J | 5.4 | 41 | 110 | -1.2 | 1.2 | 4.4 | 3 | J |
| 3 | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | 662 | 2.9 | 173 | J | 3.8 | 8 | 156 | -2.0 | 0.6 | 0.7 | 3 | J |
| 23 | 642 | 3.1 | 153 | J | 3.9 | 11 | 183 | -3.3 | -0.5 | 0.4 | 2 | J |
| 24 | 646 | 3.0 | 169 | J | 3.3 | 17 | 155 | -2.2 | 0.4 | 1.2 | 2 | J |

MAR. 10, 1985 69

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 483 | 10.0 | 35 | J | 6.5 | 26 | 73 | 1.6 | 2.8 | 5.0 | 3 | J |
| 2 | 476 | 7.6 | 35 | J | 7.2 | 10 | 78 | 1.4 | 5.1 | 4.6 | 2 | J |
| 3 | 480 | 8.8 | 32 | J | 8.5 | 29 | 61 | 3.5 | 3.5 | 6.6 | 2 | J |
| 4 | 481 | 10.0 | 27 | J | 8.6 | 43 | 46 | 4.2 | 1.3 | 6.9 | 3 | J |
| 5 | 482 | 7.8 | 29 | J | 9.0 | 45 | 62 | 2.9 | 2.5 | 7.9 | 2 | J |
| 6 | 495 | 8.2 | 29 | J | 9.0 | 65 | 31 | 3.2 | -1.1 | 8.0 | 3 | J |
| 7 | 499 | 9.3 | 35 | J | 9.5 | 71 | 108 | -0.9 | 0.0 | 9.0 | 3 | J |
| 8 | 498 | 9.7 | 36 | J | 9.7 | 75 | 298 | 1.2 | -4.6 | 8.3 | 2 | J |
| 9 | 495 | 10.6 | 28 | J | 11.0 | 76 | 295 | 1.1 | -4.8 | 9.7 | 2 | J |
| 10 | 489 | 8.7 | 27 | J | 11.2 | 80 | 22 | 1.7 | -1.5 | 10.3 | 4 | J |
| 11 | 481 | 11.4 | 30 | J | 11.2 | 88 | 74 | 0.1 | -1.9 | 10.9 | 1 | J |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 441 | 21.2 | 88 | J | 8.5 | 42 | 232 | -3.8 | -6.3 | 4.0 | 1 | J |
| 16 | 429 | 21.9 | 77 | J | 10.5 | 26 | 222 | -6.7 | -7.1 | 2.2 | 3 | J |
| 17 | | | | | | | | | | | | |
| 18 | 429 | 17.5 | 48 | J | 13.5 | 36 | 218 | -8.3 | -9.1 | 4.2 | 4 | J |
| 19 | 434 | 17.5 | 46 | J | 13.9 | 47 | 231 | -5.8 | -10.9 | 5.3 | 4 | J |
| 20 | 433 | 16.5 | 47 | J | 14.4 | 48 | 229 | -6.3 | -11.6 | 5.5 | 2 | J |
| 21 | 416 | 22.4 | 61 | J | 12.5 | 15 | 233 | -6.7 | -9.2 | -2.3 | 4 | J |
| 22 | 429 | 13.6 | 164 | J | 8.0 | -48 | 236 | -2.2 | -0.3 | -5.4 | 6 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAR. 15, 1985 74

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 453 | 12.2 | 63 | J | 10.2 | -28 | 165 | -8.4 | 3.4 | -3.9 | 2 | J |
| 9 | 452 | 10.3 | 68 | J | 9.2 | -30 | 156 | -6.3 | 3.6 | -3.2 | 5 | J |
| 10 | 457 | 13.0 | 101 | J | 8.7 | -19 | 125 | -3.6 | 5.5 | -1.0 | 6 | J |
| 11 | 467 | 12.0 | 97 | J | 8.5 | 18 | 52 | 4.0 | 4.6 | 3.1 | 5 | J |
| 12 | 465 | 10.9 | 94 | J | 7.6 | 15 | 338 | 5.6 | -2.5 | 1.1 | 5 | J |
| 13 | 479 | 7.5 | 135 | J | 6.4 | -17 | 160 | -5.4 | 2.3 | -1.3 | 2 | J |
| 14 | 467 | 4.8 | 93 | J | 6.4 | 11 | 101 | -1.1 | 5.3 | 2.6 | 2 | J |
| 15 | | | | | | | | | | | | |
| 16 | 456 | 4.4 | 45 | J | 4.2 | 30 | 80 | 0.6 | 2.5 | 3.0 | 1 | J |
| 17 | 500 | 4.1 | 77 | J | 4.5 | 24 | 138 | -2.4 | 1.5 | 2.2 | 3 | J |
| 18 | 468 | 5.2 | 68 | J | 4.2 | 28 | 92 | -0.1 | 2.3 | 3.1 | 2 | J |
| 19 | | | | | 4.0 | 19 | 44 | 1.8 | 1.1 | 1.6 | 3 | J |
| 20 | | | | | 3.1 | 14 | 92 | -0.1 | 1.8 | 1.8 | 2 | J |
| 21 | | | | | 5.0 | 27 | 87 | 0.2 | 2.0 | 3.5 | 3 | J |
| 22 | | | | | 4.6 | 56 | 77 | 0.6 | -0.1 | 4.6 | 0 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAR. 17, 1985 76

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 454 | 6.0 | 40 | J | 5.9 | -3 | 174 | -5.5 | 0.6 | 0.0 | 2 | J |
| 4 | | | | | 4.3 | 0 | 167 | -4.0 | 0.8 | 0.4 | 1 | J |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | 413 | 5.6 | 34 | J | 4.6 | 12 | 149 | -3.6 | 1.9 | 1.3 | 1 | J |
| 11 | | | | | 4.7 | -9 | 147 | -3.6 | 2.5 | -0.2 | 1 | J |
| 12 | | | | | | | | | | | | |
| 13 | 403 | 8.5 | 32 | J | 4.2 | 55 | 97 | -0.3 | 1.5 | 3.7 | 1 | J |
| 14 | 399 | 8.9 | 39 | J | 3.7 | 27 | 125 | -1.8 | 2.1 | 2.2 | 1 | J |
| 15 | 398 | 10.4 | 43 | J | 3.7 | 11 | 139 | -2.4 | 1.8 | 1.2 | 2 | J |
| 16 | 400 | 10.2 | 34 | J | 3.8 | 15 | 129 | -2.2 | 2.2 | 1.8 | 1 | J |
| 17 | 398 | 13.3 | 20 | J | 3.4 | 15 | 146 | -2.7 | 1.4 | 1.5 | 0 | J |
| 18 | 388 | 15.9 | 21 | J | 3.1 | 14 | 146 | -2.4 | 1.2 | 1.4 | 1 | J |
| 19 | 383 | 18.2 | 23 | J | 2.5 | 25 | 146 | -1.9 | 0.6 | 1.5 | 1 | J |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 5.1 | 8 | 308 | 2.7 | -3.2 | -1.5 | 3 | J |
| 24 | | | | | | | | | | | | |

MAR. 9, 1985 68

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 653 | 2.9 | 137 | J | 3.1 | 41 | 128 | -1.1 | 0.3 | 2.1 | 2 | J |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 572 | 2.3 | 79 | J | 3.1 | 20 | 160 | -2.6 | 0.7 | 1.2 | 1 | J |
| 9 | 581 | 2.0 | 94 | J | 3.5 | 19 | 168 | -3.2 | 0.4 | 1.3 | 0 | J |
| 10 | | | | | 3.4 | 21 | 167 | -3.0 | 0.4 | 1.3 | 0 | J |
| 11 | | | | | 3.2 | 21 | 164 | -2.9 | 0.6 | 1.3 | 0 | J |
| 12 | | | | | 3.1 | 14 | 159 | -2.7 | 0.9 | 0.9 | 0 | J |
| 13 | | | | | 3.2 | 16 | 162 | -2.9 | 0.7 | 1.1 | 0 | J |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | 3.0 | 4 | 160 | -2.8 | 0.9 | 0.5 | 1 | J |
| 17 | | | | | 3.0 | 6 | 159 | -2.8 | 0.9 | 0.7 | 0 | J |
| 18 | | | | | 2.9 | 8 | 156 | -2.6 | 0.9 | 0.9 | 0 | J |
| 19 | 452 | 2.1 | 47 | J | 2.9 | 7 | 157 | -2.6 | 0.8 | 0.8 | 0 | J |
| 20 | 452 | 2.4 | 39 | J | 3.0 | 20 | 150 | -2.4 | 0.7 | 1.5 | 1 | J |
| 21 | 451 | 3.3 | 48 | J | 3.3 | 8 | 150 | -2.8 | 1.1 | 1.3 | 0 | J |
| 22 | 453 | 5.1 | 60 | J | 4.6 | -12 | 157 | -4.0 | 1.9 | 0.2 | 1 | J |
| 23 | 451 | 7.9 | 67 | J | 4.6 | -18 | 161 | -4.0 | 1.9 | -0.3 | 1 | J |
| 24 | 476 | 11.8 | 60 | J | 4.6 | 38 | 250 | -0.5 | -1.8 | 0.2 | 4 | J |

MAR. 14, 1985 73

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | 3.2 | -26 | 176 | -2.0 | 0.5 | -0.8 | 2 | J |
| 19 | | | | | 4.5 | -20 | 172 | -3.8 | 1.1 | -1.0 | 2 | J |
| 20 | | | | | 5.1 | -14 | 204 | -3.8 | -0.9 | -1.8 | 3 | J |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | 383 | 16.3 | 46 | J | 6.0 | -11 | 174 | -5.7 | 1.1 | -0.6 | 2 | J |
| 24 | | | | | | | | | | | | |

MAR. 16, 1985 75

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 466 | 8.9 | 115 | J | 3.0 | 25 | 18 | 1.5 | 0.3 | 0.8 | 2 | J |
| 10 | 455 | 8.5 | 113 | J | 3.3 | 62 | 63 | 0.6 | 0.6 | 2.9 | 1 | J |
| 11 | 450 | 6.4 | 119 | J | 6.9 | 7 | 194 | -6.5 | -1.8 | 0.5 | 1 | J |
| 12 | 438 | 7.8 | 95 | J | 5.4 | 52 | 198 | -2.5 | -1.5 | 3.1 | 3 | J |
| 13 | 423 | 8.0 | 63 | J | 5.5 | 60 | 188 | -1.9 | -1.0 | 3.2 | 4 | J |
| 14 | 458 | 5.7 | 94 | J | 6.8 | -17 | 195 | -5.9 | -1.1 | -2.2 | 2 | J |
| 15 | 474 | 7.9 | 146 | J | 7.1 | -21 | 153 | -4.6 | 2.8 | -1.2 | 4 | J |
| 16 | 475 | 9.0 | 92 | J | 5.8 | 42 | 104 | -0.8 | 1.9 | 3.7 | 4 | J |
| 17 | 457 | 7.4 | 86 | J | 5.6 | 12 | 151 | -2.4 | 1.0 | 1.0 | 5 | J |
| 18 | 457 | 6.4 | 75 | J | 5.8 | 8 | 168 | -5.4 | 0.7 | 1.2 | 1 | J |
| 19 | | | | | 5.8 | 8 | 172 | -5.4 | 0.3 | 1.0 | 2 | J |
| 20 | | | | | 5.9 | 0 | 167 | -5.4 | 1.1 | 0.6 | 2 | J |
| 21 | 442 | 9.5 | 175 | J | 5.4 | 20 | 148 | -4.1 | 1.2 | 2.9 | 1 | J |
| 22 | 461 | 9.1 | 134 | J | 4.7 | -8 | 176 | -4.4 | 0.6 | -0.3 | 1 | J |
| 23 | 455 | 8.0 | 129 | J | 4.8 | -11 | 191 | -4.3 | -0.2 | -1.2 | 2 | J |
| 24 | | | | | 5.6 | -14 | 181 | -5.3 | 0.7 | -1.1 | 1 | J |

MAR. 18, 1985 77

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 390 | 12.7 | 42 | J | 7.0 | -6 | 305 | 4.0 | -4.3 | -3.8 | 1 | J |
| 2 | 391 | 29.1 | 41 | J | 6.3 | -3 | 305 | 3.6 | -4.1 | -3.0 | 2 | J |
| 3 | 398 | 30.1 | 37 | J | 6.9 | -9 | 328 | 5.4 | -2.4 | -2.5 | 3 | J |
| 4 | | | | | 5.6 | -30 | 209 | -2.6 | -0.5 | -2.2 | 5 | J |
| 5 | | | | | 8.8 | -36 | 190 | -6.9 | 1.0 | -5.2 | 2 | J |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 390 | 13.4 | 24 | J | 4.9 | 31 | 331 | 3.1 | -2.2 | 1.6 | 3 | J |
| 15 | 400 | 11.2 | 22 | J | 6.0 | 38 | 355 | 4.6 | -1.4 | 3.3 | 2 | J |
| 16 | 399 | 13.7 | 24 | J | 5.2 | 38 | 342 | 3.3 | -1.9 | 2.2 | 3 | J |
| 17 | 399 | 12.7 | 30 | J | 5.1 | 43 | 27 | 3.3 | 0.2 | 3.8 | 1 | J |
| 18 | 392 | 12.5 | 38 | J | 4.6 | 19 | 53 | 2.2 | 2.1 | 2.4 | 3 | J |
| 19 | 388 | 11.6 | 39 | J | 4.7 | -2 | 83 | 0.2 | 1.5 | 0.8 | 4 | J |
| 20 | 394 | 11.1 | 46 | J | 4.1 | -38 | 246 | -1.1 | -1.1 | -3.1 | 2 | J |
| 21 | 384 | 11.5 | 44 | J | 4.0 | -25 | 261 | -0.5 | -2.0 | -3.2 | 1 | J |
| 22 | | | | | 4.4 | -4 | 265 | -0.4 | -3.2 | -2.5 | 2 | J |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

# 03/19/85 – 03/29/85

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HR    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF    VEL  DEN TEMP/ PLS  AV B GSE GSE BXGSM BYGSM BZGSM SG IMF
               1000   SC  MAGN LAT LON                     SC                1000   SC  MAGN LAT LON                     SC

                         MAR. 19, 1985                      78                          MAR. 20, 1985                    79

  1                                                           353 11.5  20  J    3.2   4 227  -2.0  -1.9  -1.0 1 J
  2                                                           347 11.7  20  J    3.1  29 228  -1.7  -2.3   0.2 1 J
  3                                                           350  9.7  19  J    3.6  34 207  -2.5  -2.1   1.0 1 J
  4                                                                              3.6  23 250  -1.1  -3.2  -0.2 1 J
  5                                                                              3.3  40  44   1.6   0.6   2.3 2 J
  6   399 16.7  53  J    5.2  10  26   4.3   1.7   1.6 2 J    356 17.0  32  J    4.0  39  22   2.6   0.2   2.5 2 J
  7   394 16.1  40  J    5.1  -7  58   2.5   3.9   0.7 2 J    361 19.9  27  J    4.5  55 311   1.5  -2.7   2.6 2 J
  8                                                           370 23.8  23  J    4.4  77 261  -0.1  -1.5   2.7 3 J
  9                                                           370 25.6  23  J    4.0  31  71   1.1   2.7   2.8 1 J
 10                                                           365 25.6  24  J    2.5 -41 236  -0.9  -1.0  -1.6 1 J
 11                      5.0 -36 207  -3.4  -1.1  -3.1 2 J    370 19.3  22  J    5.5  31  69   1.6   3.6   3.6 2 J
 12   369 14.5  25  J    5.0 -29 208  -3.9  -1.5  -2.8 1 J    539  0.8  58  J    6.3  21  94  -0.4   5.2   3.4 1 J
 13   367 15.0  23  J    4.8 -40 192  -3.4  -0.0  -3.0 1 J    371 13.4  24  J    6.6 -31 149  -4.6   3.4  -2.5 2 J
 14   366 18.0  28  J    4.6 -19 185  -4.0   0.0  -1.4 2 J                       7.4  -5 135  -4.6   4.6   0.6 3 J
 15   368 16.9  50  J    5.3  -1 178  -4.6   0.2  -0.0 3 J
 16   381 21.9  37  J    3.6 -48 208  -0.6  -0.0  -0.8 4 J                       5.5   6 196  -5.1  -1.6   0.0 1 J
 17   382 26.1  22  J    2.6 -26  40   1.1   1.1  -0.3 2 J
 18   385 24.8  19  J    3.2 -47  23   1.8   1.6  -1.6 1 J    373 11.4  23  J    5.2  26 114  -1.8   2.6   3.6 2 J
 19   378 17.5  27  J    4.0 -52 311   1.6  -0.1  -3.6 1 J    369 10.7  45  J    4.6  19 151  -3.3   1.0   2.0 2 J
 20   371 12.2  22  J    5.5 -27 328   4.1  -0.9  -3.4 1 J    365 10.4  24  J    4.5   9 146  -3.5   1.7   1.8 1 J
 21   364 11.4  25  J    5.0 -17 305   2.6  -2.4  -3.2 2 J    367 10.8  20  J    4.4  24 146  -3.3   0.9   2.7 1 J
 22   362 14.0  29  J    3.9  -8 274   0.2  -2.2  -2.0 3 J    365 10.2  23  J    4.6   5 139  -3.4   2.2   2.0 1 J
 23                      3.3 -10 275   0.2  -2.0  -2.0 2 J    366 11.2  23  J    4.7  10 134  -3.1   2.2   2.5 1 J
 24                      2.9  -5 253  -0.8  -2.1  -1.7 1 J    360 14.5  24  J    4.1  20 164  -3.3   0.1   1.6 2 J

                         MAR. 21, 1985                      80                          MAR. 22, 1985                    81

  1   358 15.1  21  J    4.2  11 212  -3.3  -2.2  -0.5 1 J
  2   353 14.5  19  J    4.3 -13 203  -3.4  -0.8  -1.5 2 J
  3   355 14.2  21  J    4.4 -37 167  -3.3   2.0  -1.9 1 J
  4
  5                                                           336 13.6  22  J    2.9   5 305   1.5  -2.1  -0.7 1 J
  6                                                           332 15.8  18  J    2.8  12 290   0.8  -2.2  -0.3 1 J
  7   334 17.0  14  J    3.5  58 318   1.4  -2.1   2.4 0 J    332 15.3  18  J    2.1  11 320   1.6  -1.4  -0.0 1 J
  8   335 16.4  14  J    3.7  66 317   1.1  -1.9   2.9 1 J    331 15.3  16  J    1.6   0 311   0.9  -0.9  -0.3 1 J
  9   334 18.4  14  J    2.8  71 309   0.5  -1.2   2.1 1 J    330 14.9  15  J    2.0 -18 303   0.6  -0.8  -0.6 2 J
 10   331 13.8  16  J    3.2  18 346   3.0  -0.9   0.8 0 J    329 16.7  15  J    1.5  -6 316   0.9  -0.8  -0.3 1 J
 11   330 14.1  16  J    3.3  13 346   3.1  -0.9   0.6 0 J    330 17.6  14  J    1.7  -6 352   1.4  -0.2  -0.2 1 J
 12                      3.2   4 344   3.1  -0.9   0.0 0 J    326 19.0  18  J    2.0 -18 137  -0.7   0.7  -0.2 2 J
 13                                                           332 18.1  17  J    3.9  -8 223  -2.2  -1.9  -0.9 2 J
 14
 15   326 27.7  17  J    4.0  24 323   2.8  -2.5   0.9 1 J
 16   327 26.1  19  J    3.6  36 300   1.3  -2.7   1.0 2 J
 17   320 23.9  22  J    2.8  17 323   1.5  -1.2   0.1 2 J    339 20.1  20  J    5.8  24 100  -0.9   3.6   3.9 2 J
 18   320 18.8  25  J    3.7  19 329   3.0  -2.1   0.3 1 J    339 22.7  24  J    5.6  74 337   1.4  -2.8   4.4 2 J
 19   321 18.1  22  J    4.0  -9 311   2.5  -2.3  -1.9 1 J    335 20.0  21  J    5.0  63 179  -2.0  -1.8   3.5 2 J
 20   318 20.1  19  J    3.4   1 323   2.4  -1.6  -0.9 2 J    334 16.4  23  J    5.3  44 328   3.2  -3.6   2.1 1 J
 21   319 22.4  16  J    2.0  14 322   1.3  -1.1  -0.2 1 J    332 21.1  13  J    4.5  50 306   1.7  -3.8   1.6 1 J
 22   328 23.4  14  J    3.8 -39 298   1.0  -0.6  -2.4 3 J    334 25.6  11  J    4.7  44 299   1.6  -4.2   1.0 1 J
 23                                                           340 27.6  18  J    6.7  28 283   1.3  -6.2  -0.7 2 J
 24                                                           334 27.6  15  J    5.9  -2 260  -1.0  -4.3  -3.2 2 J

                         MAR. 23, 1985                      82                          MAR. 27, 1985                    86

  1   324 24.7  14  J    5.6  -4 276   0.5  -3.8  -2.9 3 J
  2   318 19.5  14  J    5.8 -29 261  -0.8  -2.7  -4.9 1 J
  3   333 19.2  27  J    5.5 -19 297   2.1  -2.8  -3.5 2 J
  4   336 21.0  26  J    4.7  26 324   3.1  -2.8   0.6 2 J
  5   334 18.2  37  J    4.2  12 143  -2.0   1.1   1.1 3 J
  6
  7
  8   326 17.0  23  J    2.8  42 170  -1.9  -0.2   1.8 1 J
  9   318 14.7  19  J    3.0  36 201  -1.9  -1.1   1.3 2 J
 10   312 15.8  19  J    3.8  30 233  -1.6  -2.4   1.0 2 J
 11   307 14.5  20  J    3.8  31 244  -1.1  -2.4   1.0 2 J
 12   308 14.5  17  J    3.5  -4 241  -1.2  -2.0  -0.6 3 J
 13   308 10.7  18  J
 14   308 14.5  17  J
 15   304 16.8  16  J    3.6   1 280   0.6  -3.2  -0.9 1 J    323 19.4  41  J
 16                                                           332 26.0  26  J   10.1  48 290   2.3  -8.4   4.9 1 J
 17                                                                             12.2  -9 277   1.4 -10.1  -6.2 3 J
 18                                                           325 35.8  29  J   10.3   7 279   1.5  -8.9  -3.0 4 J
 19                                                           327 32.9  31  J    8.5   5 286   2.2  -7.2  -3.1 3 J
 20                                                           342 33.7  33  J    6.1 -23 270  -0.0  -3.4  -4.6 2 J
 21                                                           323 32.1  25  J    6.9  29 294   2.1  -5.5  -0.2 4 J
 22                                                                              5.7 -16 288   1.4  -2.9  -3.6 3 J
 23                                                           315 34.6  28  J    7.2  28 305   3.1  -5.3  -0.2 4 J
 24                                                           332 29.1  16  J   10.7 -14 279   1.6  -6.9  -7.8 2 J

                         MAR. 28, 1985                      87                          MAR. 29, 1985                    88

  1                                                           421  8.3  39  J    8.8  34 352   7.2  -3.6   3.5 1 J
  2                                                           415  7.6  31  J    9.0  22 343   7.5  -3.6   1.5 3 J
  3                                                                              8.0  19 342   7.0  -3.2   1.1 2 J
  4
  5
  6
  7
  8   361 18.2  63  J    5.2 -31 191  -3.7  -0.1  -2.4 3 J                       5.7   7  62   2.6   4.5   2.0 1 J
  9   366 14.6  54  J    5.6  50  66   0.4   0.6   1.4 5 J                       6.7  45 301   1.7  -3.5   2.5 5 J
 10   376 13.0  47  J    5.3  33  89   0.1   3.1   3.1 4 J                       7.7  56 328   3.6  -3.5   5.6 2 J
 11   379 11.1  36  J    6.5  24 108  -1.8   4.9   3.7 1 J                       8.5  57  11   4.3  -0.6   6.7 3 J
 12   373 12.9  25  J    5.6  29 112  -1.8   3.8   3.5 1 J    398  8.4  56  J    7.6  43  62   2.6   3.7   6.0 1 J
 13   376 12.7  23  J    5.2  27 129  -2.9   2.9   3.0 1 J    398  9.5  74  J    5.6  -2 130  -3.3   3.8   0.7 2 J
 14   384 12.5  41  J    4.9  25 138  -3.0   2.2   2.5 2 J    407  8.7  54  J    5.0  24 119  -1.8   2.8   2.4 3 J
 15   390 11.3  51  J    3.5  29 150  -2.4   0.9   1.9 1 J    406  7.8  42  J    5.3  -7 132  -3.3   3.6   0.5 2 J
 16   387 13.0  44  J    4.9  42  99  -0.4   1.8   3.3 3 J    405  7.7  75  J    6.0 -22 146  -4.2   3.3  -1.0 3 J
 17                                                           393  8.7  49  J    5.6   3 136  -3.7   3.2   1.6 3 J
 18                                                                              4.7  14 138  -3.0   2.0   2.1 2 J
 19                                                                              4.9 -13 166  -4.3   1.4  -0.4 2 J
 20
 21
 22
 23
 24                      8.3  34 356   6.9  -3.0   3.6 1 J
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OF POOR QUALITY

MAR. 30, 1985 89

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | |
| 9 | | | | | 4.8 | 50 | 48 | 1.6 | 1.1 | 3.3 | 3 | J |
| 10 | 440 | 8.1 | 58 | J | 5.7 | 39 | 28 | 3.8 | 1.2 | 3.8 | 1 | J |
| 11 | | | | | 5.7 | 44 | 104 | -0.8 | 2.5 | 3.9 | 3 | J |
| 12 | 401 | 9.5 | 69 | J | 6.5 | -8 | 157 | -5.7 | 2.5 | -0.4 | 2 | J |
| 13 | 417 | 9.6 | 67 | J | 6.3 | 5 | 119 | -1.5 | 2.6 | 0.9 | 5 | J |
| 14 | 431 | 1[illegible].2 | 79 | J | 5.5 | 47 | 39 | 2.3 | 1.0 | 3.5 | 4 | J |
| 15 | 450 | 11.2 | 78 | J | 7.3 | 40 | 46 | 3.2 | 2.1 | 4.6 | 4 | J |
| 16 | 456 | 12.4 | 65 | J | 5.3 | 25 | 41 | 3.4 | 2.1 | 3.0 | 2 | J |
| 17 | 439 | 13.4 | 76 | J | 5.3 | 18 | 20 | 4.5 | 0.9 | 2.0 | 2 | J |
| 18 | 435 | 12.3 | 78 | J | 5.0 | 5 | 11 | 4.6 | 0.6 | 0.8 | 2 | J |
| 19 | 438 | 9.3 | 78 | J | 7.1 | 14 | 124 | -3.4 | 3.7 | 3.7 | 3 | J |
| 20 | 443 | 14.7 | 43 | J | 5.7 | 26 | 352 | 4.3 | -1.6 | 1.5 | 3 | J |
| 21 | 436 | 13.7 | 36 | J | 6.1 | 14 | 24 | 5.3 | 1.2 | 2.5 | 1 | J |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

MAR. 31, 1985 90

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | 474 | 11.4 | 100 | J | 8.8 | 20 | 345 | 7.3 | -2.5 | 2.3 | 4 | J |
| 12 | 484 | 7.6 | 89 | J | 10.6 | 32 | 7 | 8.5 | -0.1 | 5.5 | 3 | J |
| 13 | 481 | 10.5 | 187 | J | 7.7 | 29 | 17 | 5.4 | 0.9 | 3.4 | 5 | J |
| 14 | 501 | 5.4 | 127 | J | 8.1 | 35 | 68 | 2.3 | 4.5 | 5.6 | 3 | J |
| 15 | | | | | 7.9 | 25 | 78 | 1.5 | 5.7 | 5.1 | 1 | J |
| 16 | 510 | 5.8 | 112 | J | 8.0 | 30 | 66 | 2.7 | 4.5 | 5.7 | 2 | J |
| 17 | 504 | 6.8 | 86 | J | 7.8 | 14 | 75 | 1.9 | 5.9 | 4.4 | 1 | J |
| 18 | 499 | 5.6 | 83 | J | 6.4 | -31 | 120 | -2.7 | 5.5 | -0.9 | 1 | J |
| 19 | 496 | 5.3 | 66 | J | 6.1 | -11 | 121 | -2.9 | 4.7 | 1.3 | 2 | J |
| 20 | 507 | 5.1 | 68 | J | 5.3 | -11 | 87 | 0.2 | 3.4 | 1.2 | 4 | J |
| 21 | 502 | 4.2 | 52 | J | 5.9 | 1 | 103 | -1.3 | 4.6 | 3.1 | 1 | J |
| 22 | 495 | 5.0 | 68 | J | 6.4 | 4 | 123 | -3.4 | 4.1 | 3.3 | 1 | J |
| 23 | 457 | 7.6 | 65 | J | 6.0 | 20 | 131 | -3.5 | 2.2 | 3.9 | 2 | J |
| 24 | | | | | 6.8 | 9 | 131 | -4.3 | 3.5 | 3.6 | 2 | J |

APR. 1, 1985 91

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | 446 | 20.5 | 129 | J | 6.6 | 4 | 57 | 1.5 | 2.0 | 1.1 | 6 | J |
| 6 | 436 | 16.9 | 83 | J | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | |
| 9 | 440 | 18.9 | 80 | J | | | | | | | | |
| 10 | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 582 | 14.2 | 265 | J | | | | | | | | |
| 15 | 586 | 12.2 | 302 | J | | | | | | | | |
| 16 | 619 | 8.3 | 336 | J | | | | | | | | |
| 17 | 648 | 7.4 | 402 | J | | | | | | | | |
| 18 | 633 | 5.7 | 275 | J | | | | | | | | |
| 19 | 592 | 6.4 | 272 | J | | | | | | | | |
| 20 | 614 | 6.7 | 240 | J | | | | | | | | |
| 21 | 596 | 8.8 | 318 | J | | | | | | | | |
| 22 | 643 | 5.5 | 197 | J | | | | | | | | |
| 23 | 667 | 5.3 | 308 | J | | | | | | | | |
| 24 | 646 | 4.4 | 205 | J | | | | | | | | |

APR. 2, 1985 92

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 696 | 3.5 | 111 | J | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | 695 | 2.9 | 79 | J | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 695 | 3.9 | 231 | J | | | | | | | | |
| 9 | 750 | 4.1 | 260 | J | | | | | | | | |
| 10 | 716 | 5.3 | 328 | J | | | | | | | | |
| 11 | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | 692 | 5.2 | 291 | J | | | | | | | | |
| 15 | 726 | 4.5 | 350 | J | | | | | | | | |
| 16 | 730 | 4.2 | 330 | J | | | | | | | | |
| 17 | 751 | 4.0 | 397 | J | | | | | | | | |
| 18 | 726 | 3.6 | 268 | J | | | | | | | | |
| 19 | 720 | 3.9 | 316 | J | | | | | | | | |
| 20 | 711 | 3.6 | 234 | J | | | | | | | | |
| 21 | 736 | 2.8 | 223 | J | | | | | | | | |
| 22 | 665 | 3.1 | 173 | J | | | | | | | | |
| 23 | 642 | 3.2 | 96 | J | | | | | | | | |
| 24 | 629 | 3.9 | 76 | J | | | | | | | | |

APR. 3, 1985 93

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 669 | 4.5 | 261 | J | | | | | | | | |
| 2 | 663 | 4.3 | 297 | J | | | | | | | | |
| 3 | 664 | 4.7 | 274 | J | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | 633 | 4.0 | 167 | J | | | | | | | | |
| 16 | 655 | 4.2 | 154 | J | | | | | | | | |
| 17 | 637 | 4.0 | 117 | J | | | | | | | | |
| 18 | 656 | 4.0 | 110 | J | | | | | | | | |
| 19 | 631 | 4.0 | 111 | J | | | | | | | | |
| 20 | 624 | 4.2 | 105 | J | | | | | | | | |
| 21 | 642 | 4.3 | 124 | J | | | | | | | | |
| 22 | 629 | 4.4 | 111 | J | | | | | | | | |
| 23 | 641 | 4.6 | 132 | J | | | | | | | | |
| 24 | 629 | 4.5 | 139 | J | | | | | | | | |

APR. 4, 1985 94

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 622 | 4.3 | 133 | J | | | | | | | | |
| 2 | 622 | 4.3 | 125 | J | | | | | | | | |
| 3 | 607 | 4.7 | 171 | J | | | | | | | | |
| 4 | 617 | 4.5 | 154 | J | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | |
| 8 | 573 | 4.9 | 94 | J | | | | | | | | |
| 9 | 581 | 5.1 | 89 | J | | | | | | | | |
| 10 | 573 | 3.8 | 85 | J | | | | | | | | |
| 11 | 608 | 3.6 | 134 | J | | | | | | | | |
| 12 | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | 557 | 4.0 | 81 | J | | | | | | | | |
| 19 | 572 | 3.6 | 92 | J | | | | | | | | |
| 20 | 570 | 4.0 | 69 | J | | | | | | | | |
| 21 | 563 | 3.9 | 75 | J | | | | | | | | |
| 22 | 598 | 4.0 | 91 | J | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

APR. 5, 1985 95

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 573 | 4.2 | 132 | J | | | | | | | | |
| 2 | 550 | 4.6 | 145 | J | | | | | | | | |
| 3 | 548 | 4.6 | 105 | J | | | | | | | | |
| 4 | 544 | 4.5 | 86 | J | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
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| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

APR. 9, 1985 99

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 7 | 414 | 21.4 | 37 | J | | | | | | | | |
| 8 | 418 | 26.5 | 60 | J | | | | | | | | |
| 9 | 432 | 29.4 | 86 | J | | | | | | | | |
| 10 | 446 | 21.4 | 75 | J | | | | | | | | |
| 11 | 439 | 24.9 | 65 | J | | | | | | | | |
| 12 | 448 | 29.0 | 58 | J | | | | | | | | |
| 13 | 447 | 23.3 | 56 | J | | | | | | | | |
| 14 | 447 | 24.7 | 64 | J | | | | | | | | |
| 15 | 454 | 20.9 | 64 | J | | | | | | | | |
| 16 | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |

04/10/85 – 04/17/85

APR. 10, 1985 100

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 454 | 7.2 | 41 | J |  |  |  |  |  |  |  |  |
| 4 | 453 | 8.7 | 55 | J |  |  |  |  |  |  |  |  |
| 5 | 432 | 15.2 | 55 | J |  |  |  |  |  |  |  |  |
| 6 | 424 | 14.5 | 52 | J |  |  |  |  |  |  |  |  |
| 7 | 420 | 16.1 | 32 | J |  |  |  |  |  |  |  |  |
| 8 | 414 | 16.2 | 26 | J |  |  |  |  |  |  |  |  |
| 9 | 414 | 20.6 | 28 | J |  |  |  |  |  |  |  |  |
| 10 | 422 | 20.7 | 36 | J |  |  |  |  |  |  |  |  |
| 11 | 438 | 17.7 | 54 | J |  |  |  |  |  |  |  |  |
| 12 | 456 | 11.3 | 84 | J |  |  |  |  |  |  |  |  |
| 13 | 446 | 15.0 | 64 | J |  |  |  |  |  |  |  |  |
| 14 | 434 | 20.4 | 38 | J |  |  |  |  |  |  |  |  |
| 15 | 422 | 14.8 | 49 | J |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

APR. 11, 1985 101

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 454 | 9.2 | 69 | J |  |  |  |  |  |  |  |  |
| 3 | 452 | 9.5 | 96 | J |  |  |  |  |  |  |  |  |
| 4 | 446 | 9.3 | 115 | J |  |  |  |  |  |  |  |  |
| 5 | 442 | 8.2 | 103 | J |  |  |  |  |  |  |  |  |
| 6 | 447 | 7.0 | 79 | J |  |  |  |  |  |  |  |  |
| 7 | 451 | 5.9 | 88 | J |  |  |  |  |  |  |  |  |
| 8 | 431 | 5.7 | 98 | J |  |  |  |  |  |  |  |  |
| 9 | 423 | 5.0 | 37 | J |  |  |  |  |  |  |  |  |
| 10 | 430 | 4.8 | 44 | J |  |  |  |  |  |  |  |  |
| 11 | 456 | 7.1 | 46 | J |  |  |  |  |  |  |  |  |
| 12 | 457 | 8.1 | 49 | J |  |  |  |  |  |  |  |  |
| 13 | 476 | 6.0 | 68 | J |  |  |  |  |  |  |  |  |
| 14 | 504 | 4.0 | 102 | J |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 578 | 5.1 | 105 | J |  |  |  |  |  |  |  |  |
| 19 | 599 | 3.8 | 147 | J |  |  |  |  |  |  |  |  |
| 20 | 594 | 3.5 | 87 | J |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

APR. 12, 1985 102

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 541 | 4.2 | 155 | J |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 525 | 4.1 | 107 | J |  |  |  |  |  |  |  |  |
| 6 | 517 | 3.5 | 56 | J |  |  |  |  |  |  |  |  |
| 7 | 504 | 3.8 | 54 | J |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 413 | 7.3 | 29 | J |  |  |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 415 | 8.1 | 40 | J |  |  |  |  |  |  |  |  |
| 15 | 414 | 7.4 | 37 | J |  |  |  |  |  |  |  |  |
| 16 | 450 | 3.1 | 54 | J |  |  |  |  |  |  |  |  |
| 17 | 484 | 3.3 | 42 | J |  |  |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | 428 | 2.1 | 64 | J |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |  |  |  |  |  |  |

APR. 13, 1985 103

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 377 | 7.7 | 23 | J |  |  |  |  |  |  |  |  |
| 7 | 370 | 10.3 | 23 | J |  |  |  |  |  |  |  |  |
| 8 | 377 | 13.1 | 27 | J |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 393 | 9.2 | 35 | J |  |  |  |  |  |  |  |  |
| 13 | 395 | 10.7 | 36 | J |  |  |  |  |  |  |  |  |
| 14 | 383 | 13.0 | 58 | J |  |  |  |  |  |  |  |  |
| 15 | 386 | 12.2 | 52 | J |  |  |  |  |  |  |  |  |
| 16 | 407 | 14.2 | 35 | J |  |  |  |  |  |  |  |  |
| 17 | 406 | 18.2 | 26 | J |  |  |  |  |  |  |  |  |
| 18 | 402 | 20.0 | 36 | J |  |  |  |  |  |  |  |  |
| 19 | 390 | 20.9 | 37 | J |  |  |  |  |  |  |  |  |
| 20 | 384 | 13.9 | 30 | J |  |  |  |  |  |  |  |  |
| 21 | 383 | 11.3 | 28 | J |  |  |  |  |  |  |  |  |
| 22 | 379 | 11.4 | 27 | J |  |  |  |  |  |  |  |  |
| 23 | 377 | 14.0 | 52 | J |  |  |  |  |  |  |  |  |
| 24 | 377 | 15.8 | 45 | J |  |  |  |  |  |  |  |  |

APR. 14, 1985 104

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 399 | 6.8 | 56 | J |  |  |  |  |  |  |  |  |
| 9 | 374 | 8.5 | 39 | J |  |  |  |  |  |  |  |  |
| 10 | 372 | 7.7 | 36 | J |  |  |  |  |  |  |  |  |
| 11 | 373 | 10.3 | 30 | J |  |  |  |  |  |  |  |  |
| 12 | 373 | 12.6 | 25 | J |  |  |  |  |  |  |  |  |
| 13 | 395 | 9.4 | 66 | J |  |  |  |  |  |  |  |  |
| 14 | 392 | 11.1 | 72 | J |  |  |  |  |  |  |  |  |
| 15 | 397 | 10.3 | 62 | J |  |  |  |  |  |  |  |  |
| 16 | 402 | 10.2 | 52 | J |  |  |  |  |  |  |  |  |
| 17 | 397 | 12.3 | 50 | J |  |  |  |  |  |  |  |  |
| 18 | 380 | 16.1 | 37 | J |  |  |  |  |  |  |  |  |
| 19 | 379 | 19.5 | 37 | J |  |  |  |  |  |  |  |  |
| 20 | 378 | 17.9 | 25 | J |  |  |  |  |  |  |  |  |
| 21 | 380 | 12.2 | 32 | J |  |  |  |  |  |  |  |  |
| 22 | 379 | 10.2 | 25 | J |  |  |  |  |  |  |  |  |
| 23 | 381 | 9.8 | 28 | J |  |  |  |  |  |  |  |  |
| 24 | 376 | 10.0 | 37 | J |  |  |  |  |  |  |  |  |

APR. 15, 1985 105

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 378 | 9.5 | 25 | J |  |  |  |  |  |  |  |  |
| 2 | 377 | 7.8 | 29 | J |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 383 | 7.8 | 44 | J |  |  |  |  |  |  |  |  |
| 8 | 381 | 8.5 | 35 | J |  |  |  |  |  |  |  |  |
| 9 | 374 | 10.7 | 25 | J |  |  |  |  |  |  |  |  |
| 10 | 368 | 13.6 | 22 | J |  |  |  |  |  |  |  |  |
| 11 | 362 | 14.6 | 24 | J |  |  |  |  |  |  |  |  |
| 12 | 357 | 11.9 | 28 | J |  |  |  |  |  |  |  |  |
| 13 | 360 | 8.0 | 45 | J |  |  |  |  |  |  |  |  |
| 14 | 348 | 12.6 | 32 | J |  |  |  |  |  |  |  |  |
| 15 | 342 | 14.7 | 19 | J |  |  |  |  |  |  |  |  |
| 16 | 340 | 14.8 | 16 | J |  |  |  |  |  |  |  |  |
| 17 | 338 | 14.9 | 18 | J |  |  |  |  |  |  |  |  |
| 18 | 349 | 12.7 | 22 | J |  |  |  |  |  |  |  |  |
| 19 | 345 | 13.2 | 24 | J |  |  |  |  |  |  |  |  |
| 20 | 339 | 15.5 | 22 | J |  |  |  |  |  |  |  |  |
| 21 | 339 | 18.8 | 21 | J |  |  |  |  |  |  |  |  |
| 22 | 345 | 19.8 | 22 | J |  |  |  |  |  |  |  |  |
| 23 | 352 | 24.7 | 28 | J |  |  |  |  |  |  |  |  |
| 24 | 346 | 24.0 | 26 | J |  |  |  |  |  |  |  |  |

APR. 16, 1985 106

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 348 | 25.1 | 30 | J |  |  |  |  |  |  |  |  |
| 2 | 343 | 23.9 | 23 | J |  |  |  |  |  |  |  |  |
| 3 | 347 | 23.3 | 25 | J |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 372 | 21.1 | 32 | J |  |  |  |  |  |  |  |  |
| 12 | 371 | 15.3 | 36 | J |  |  |  |  |  |  |  |  |
| 13 | 363 | 17.6 | 40 | J |  |  |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 363 | 14.3 | 57 | J |  |  |  |  |  |  |  |  |
| 18 | 369 | 15.9 | 66 | J |  |  |  |  |  |  |  |  |
| 19 | 376 | 15.3 | 44 | J |  |  |  |  |  |  |  |  |
| 20 | 381 | 15.5 | 40 | J |  |  |  |  |  |  |  |  |
| 21 | 374 | 13.0 | 34 | J |  |  |  |  |  |  |  |  |
| 22 | 367 | 11.0 | 41 | J |  |  |  |  |  |  |  |  |
| 23 | 382 | 6.6 | 59 | J |  |  |  |  |  |  |  |  |
| 24 | 394 | 8.5 | 55 | J |  |  |  |  |  |  |  |  |

APR. 17, 1985 107

| HR | VEL | DEN | TEMP/ 1000 | PLS SC | AV B MAGN | GSE LAT | GSE LON | BXGSM | BYGSM | BZGSM | SG | IMF SC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 389 | 10.0 | 62 | J |  |  |  |  |  |  |  |  |
| 2 | 391 | 7.6 | 38 | J |  |  |  |  |  |  |  |  |
| 3 | 390 | 7.0 | 35 | J |  |  |  |  |  |  |  |  |
| 4 | 397 | 7.9 | 52 | J |  |  |  |  |  |  |  |  |